



Avaya™ Call Management System
Release 3 Version 11
Administration

585-215-515
Issue 1.1
October 2002
Compas ID 90677

Notice

Every effort was made to ensure that the information in this document was complete and accurate at the time of printing. However, information is subject to change.

Preventing Toll Fraud

"Toll fraud" is the unauthorized use of your telecommunications system by an unauthorized party (for example, a person who is not a corporate employee, agent, subcontractor, or working on your company's behalf). Be aware that there may be a risk of toll fraud associated with your system and that, if toll fraud occurs, it can result in substantial additional charges for your telecommunications services.

Avaya Fraud Intervention

If you *suspect that you are being victimized* by toll fraud and you need technical assistance or support, call Technical Service Center Toll Fraud Intervention Hotline at +1 800 643 2353 for the United States and Canada. For additional support telephone numbers, see the Avaya Web site:

<http://www.avaya.com>

Select **Support**, then select **Escalation Lists US and International**. This Web site includes telephone numbers for escalation within the United States. For escalation telephone numbers outside the United States, select **Global Escalation List**.

Providing Telecommunications Security

Telecommunications security (of voice, data, and/or video communications) is the prevention of any type of intrusion to (that is, either unauthorized or malicious access to or use of) your company's telecommunications equipment by some party.

Your company's "telecommunications equipment" includes both this Avaya product and any other voice/data/video equipment that could be accessed via this Avaya product (that is, "networked equipment").

An "outside party" is anyone who is not a corporate employee, agent, subcontractor, or working on your company's behalf. Whereas, a "malicious party" is anyone (including someone who may be otherwise authorized) who accesses your telecommunications equipment with either malicious or mischievous intent.

Such intrusions may be either to/through synchronous (time-multiplexed and/or circuit-based) or asynchronous (character-, message-, or packet-based) equipment or interfaces for reasons of:

- Utilization (of capabilities special to the accessed equipment)
- Theft (such as, of intellectual property, financial assets, or toll-facility access)
- Eavesdropping (privacy invasions to humans)
- Mischief (troubling, but apparently innocuous, tampering)
- Harm (such as harmful tampering, data loss or alteration, regardless of motive or intent)

Be aware that there may be a risk of unauthorized intrusions associated with your system and/or its networked equipment. Also realize that, if such an intrusion should occur, it could result in a variety of losses to your company (including but not limited to, human/data privacy, intellectual property, material assets, financial resources, labor costs, and/or legal costs).

Your Responsibility for Your Company's Telecommunications Security

The final responsibility for securing both this system and its networked equipment rests with you - an Avaya customer's system administrator, your telecommunications peers, and your managers. Base the fulfillment of your responsibility on acquired knowledge and resources from a variety of sources including but not limited to:

- Installation documents
- System administration documents
- Security documents
- Hardware-/software-based security tools
- Shared information between you and your peers
- Telecommunications security experts

To prevent intrusions to your telecommunications equipment, you and your peers should carefully program and configure:

- your Avaya-provided telecommunications systems and their interfaces
- your Avaya-provided software applications, as well as their underlying hardware/software platforms and interfaces
- any other equipment networked to your Avaya products.

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Avaya Support

Avaya provides a telephone number for you to use to report problems or to ask questions about your contact center. The support telephone number is 1-800-242-2121 in the United States. For additional support telephone numbers, see the Avaya Web site:

<http://www.avaya.com>

Select **Support**, then select **Escalation Lists US and International**.

This Web site includes telephone numbers for escalation within the United States. For escalation telephone numbers outside the United States, select **Global Escalation List**.

Acknowledgment

This document was written by the CRM Information Development group.

Avaya™ Call Management System
Release 3 Version 11
Administration

Contents

About this information product

Reasons for reissue	15

Chapter 1: Introduction

What is Avaya CMS?	20
Optional features	27

Chapter 2: Configuring Avaya CMS Supervisor

General tab	30
Scripting tab	32
Report Colors tab.	33
Threshold Colors tab	36
Name Format tab.	39

Chapter 3: Using the Dictionary to name contact center entities

Searching the Dictionary	45
Procedure	46

ACD Groups	49
Listing all ACD Groups	51
Viewing the contents of an ACD Group	52

ACDs	53
Adding an ACD name	54
Modifying an ACD name	55
Deleting an ACD Name	56

Agent groups	57
Adding an agent group	58
Listing agents in an agent group.	60
Copying an existing agent group to a new name	62
Adding agents to an existing agent group	64
Deleting agents in an existing agent group.	66
Deleting an agent group	68

Contents

Agent string values	69
Changing agent string value descriptions	70
Agent string value field descriptions	72
Announcement names	75
Adding an announcement name	76
Viewing an announcement name	77
Listing all announcement names for an ACD	78
Modifying an announcement name	79
Deleting an announcement name	80
AUX reason code names	81
Adding an AUX reason code name	83
Viewing an AUX reason code name	84
Listing all AUX reason code names	85
Modifying an AUX reason code name	86
Deleting an AUX reason code	88
Calculations	91
Viewing a calculation	93
Listing all calculations	94
Adding a calculation	95
Modifying a custom calculation	97
Deleting a custom calculation	98
Call work codes	99
Adding a name to a call work code	101
Viewing a call work code name	102
Listing all call work code names	103
Modifying a call work code name	104
Deleting a call work code name	106
Constants	107
Adding a constant	108
Viewing a constant	109
Listing all constants	110
Modifying a constant	111
Deleting a constant	112
Custom database items	113
Adding a custom database item	114
Viewing a custom database item	115
Listing all custom database items	116
Modifying a custom database item	117
Deleting a custom database item	118

Generic string values synonyms	119
Viewing generic string values	120
Modifying generic string values	121
Location IDs	123
Adding a location ID	124
Viewing a location ID	125
Listing all location IDs	126
Modifying a location ID	127
Deleting a Location ID	128
Login ID names	129
Adding a name to a login ID	131
Viewing a login ID name	132
Listing all login ID names	133
Modifying a login ID name	134
Deleting a login ID name	135
Logout reason code names	137
Adding a logout reason code name	138
Viewing a logout reason code name	139
Listing all logout reason code names	140
Modifying a logout reason code name	142
Deleting a logout reason code name	144
Split/skill string values	147
Viewing split/skill string values	148
Modifying split/skill string values	149
Split/skill string value field descriptions	150
Split/Skill names	153
Adding a split/skill name	155
Viewing a split/skill name	156
Listing all the split/skill names	157
Modifying a split/skill name	158
Deleting a split/skill name	160
Standard database items	161
Viewing a standard database item	162
Viewing all standard database items alphabetically	164
Trunk group names	165
Adding a trunk group name	166
Viewing a trunk group name	167
Listing all trunk group names	168

Contents

Modifying a trunk group name	169
Deleting a trunk group name	171
Trunk string values	173
Viewing and modifying trunk string values	174
Trunk string values field descriptions	176
VDN names	179
Adding a VDN name	181
Viewing a VDN name	182
Listing all VDN names	183
Modifying a VDN name	184
Deleting a VDN name	185
Vector names	187
Adding a vector name	189
Viewing a vector name	190
Listing all vector names	191
Modifying a vector name	192
Deleting a vector name	193
Dictionary reports	195
Printing Dictionary reports	196
Running an agent group members report	198
Chapter 4: Using reports	
Background	202
Choosing a report	204
Generating a report	206
Printing a report	207
Restarting a report	209
Chapter 5: Scripting CMS operations	
Creating scripts	213
Accessing the script options	215
Creating an interactive report script	217
Creating an automatic report script	218
Creating a script to export report data	220
Creating a script to export report data as HTML	222
Scripting other Supervisor operations	225
Scripting an input window	226
Scripting an action	228
Organizing scripts	230

Error and warning messages	231
Chapter 6: Administering contact center agents	
Starting or stopping an agent trace	234
Viewing current agent trace states	237
Listing agents traced	239
Changing agent skills	241
Changing skills for multiple agents	248
Changing extension split assignments	252
Moving extensions between splits	255
Running a split members report	258
Chapter 7: Administering the contact center configuration	
ACD Groups	263
Adding an ACD Group	266
Listing all ACD Groups	267
Adding an ACD to an ACD Group	269
Viewing the contents of an ACD Group	271
Deleting an ACD from an ACD Group	273
Modifying an ACD Group	275
Deleting an ACD Group	277
Call work codes	279
Adding call work codes	281
Viewing call work codes	283
Listing all call work codes	284
Deleting call work codes	285
VDN skill preferences	287
Changing VDN skill preferences	289
Viewing VDN skill preferences	291
Listing all VDN skill preferences	292
Split/skill call profiles	293
Adding split/skill call profiles	295
Viewing an existing split/skill call profile	297
Modifying a split/skill call profile	299
Deleting a split/skill call profile	301
Trunk group assignments	303
Viewing all trunk group assignments	304
Viewing a single trunk group assignment	305
Viewing a trunk group assignment by VDN or split	307

Contents

Trunk group members report	309
Running a trunk group members report	310
VDN-to-vector assignments	313
Viewing all VDN-to-vector assignments	315
Listing VDNs associated with a vector	316
Modifying VDN-to-vector assignments	317
VDN call profiles	319
Adding a VDN call profile	321
Viewing an existing VDN call profile	323
Modifying a VDN call profile	325
Deleting a VDN call profile	327
Vector configuration report	329
Running vector configuration reports	331
Chapter 8: Administering exceptions	
Exception notification	339
Changing exception notification	340
Agent exceptions	341
Adding agent exceptions	343
Modifying agent exceptions	346
Deleting agent exceptions	349
Agent exception definitions	351
Agent exceptions report	354
Split/skill exceptions	357
Adding split/skill exceptions	359
Modifying split/skill exceptions	361
Deleting split/skill exceptions	364
Split/skill exception definitions	366
Split/skill exceptions report	368
Trunk group exceptions	371
Adding trunk group exceptions	372
Modifying trunk group exceptions	374
Deleting trunk group exceptions	377
Trunk group exception definitions	379
Trunk group exceptions report	380
VDN exceptions	383
Adding VDN exceptions	385

Modifying VDN exceptions	387
Deleting VDN exceptions	390
VDN exception definitions	392
VDN exceptions report	394
Vector exceptions	397
Adding vector exceptions	399
Modifying vector exceptions	401
Deleting vector exceptions	404
Vector exception definitions	406
Vector exceptions report	407
Data collection exceptions report	411
Running a data collection exceptions report	412
Malicious call trace report	415
Running a malicious call trace report	416
Real-time exceptions log	419
Running the real-time exceptions log	420
Chapter 9: Administering user permissions	
User data.	423
Adding a CMS user.	424
Viewing CMS users.	428
Modifying CMS users.	431
Deleting CMS users	434
ACD access	437
Adding ACD access	439
Viewing ACD access	441
Listing all ACD access	443
Modifying ACD access	445
Deleting ACD access	447
Feature access	449
Viewing Feature Access user permissions	451
Listing all Feature Access user permissions	453
Modifying Feature Access user permissions	455
Main Menu Addition Access	457
Viewing Main Menu Addition Access	459
Listing all Main Menu Addition Access	461
Assigning or modifying Main Menu Addition Access	463

Contents

Split/Skill access	465
Adding split/skill user permissions	467
Viewing split/skill user permissions	469
Listing all split/skill user permissions.	471
Modifying split/skill user permissions	473
Deleting split/skill user permissions	476
Trunk group access.	479
Adding trunk group user permissions	481
Viewing trunk group user permissions	483
Listing all trunk group user permissions	485
Modifying trunk group user permissions	487
Deleting trunk group user permissions.	490
Vector access	493
Adding vector user permissions	495
Viewing vector user permissions	497
Listing all vector user permissions.	499
Modifying vector user permissions	501
Deleting vector user permissions	504
VDN access	507
Adding VDN user permissions	509
Viewing VDN user permissions	511
Listing all VDN user permissions	513
Modifying VDN user permissions	515
Deleting VDN user permissions	518
Chapter 10: Configuring CMS system settings	
CMS state	523
Changing the CMS state	525
Changing the master ACD	527
Data collection	529
Changing the data collection state.	531
Data Storage Allocation	533
Viewing Data Storage Allocation	535
Modifying Data Storage Allocation.	537
Data summarizing	543
Archiving data	545

External Application Status	547
Enabling or disabling the External Application Status feature	549
Viewing the states of external applications	551
Starting or stopping external applications	553
Free Space Allocation	555
Viewing Free Space Allocation	557
Viewing Free Space Allocation contents	559
Modifying Free Space Allocation	561
Migrating CMS data	563
Migrating R3 data	564
Pseudo-ACDs	569
Creating a pseudo-ACD	572
Viewing pseudo-ACDs	573
Deleting a pseudo-ACD	574
Loading pseudo-ACD data	575
Storage intervals	579
Viewing storage interval settings	581
Changing the intrahour interval	582
Changing switch time zone	584
Modifying data summarizing settings	586
Switch setup	589
Viewing switch setup data	591
Listing all switch setup data	593
Chapter 11: Maintaining CMS	
ACD status	597
Viewing ACD status	598
Listing ACD status	601
Description of the ACD Status window – with EAS	602
Description of the ACD Status window – without EAS	603
Requesting ACD translations	604
Archiving status	605
Viewing the archiving status of a single ACD	606
Viewing the archiving status of all ACDs	608
Description of the Archiving Status - List All window	610
Backup/restore devices	611
Viewing a backup/restore device	612

Contents

Listing all backup/restore devices	614
Adding a backup/restore device	616
Modifying a backup/restore device	618
Deleting a backup/restore device	620
Data Backup	623
Things to consider when backing up or restoring data	626
Performing a CMSADM backup	629
Performing a maintenance backup	632
Common backup error messages	637
Labeling the backup volume	638
Recovery kit	639
Restoring data.	641
Automatic restore	643
Manual restore	645
Connection status.	649
Viewing the connection status of an ACD	650
Listing the connection status of all ACDs	652
Description of the Connection Status window	654
Administering a printer	657
Adding a new printer	658
Listing all printers	660
Modifying printer options	662
Deleting a printer	664
Maintenance Error Log	667
Running a Maintenance Error Log	668
Severity of errors	670
Maintenance Error Log messages	671
ACD Administration Log	699
Running the ACD Administration Log report	700
ACD Administration Log window field descriptions	703
Chapter 12: Using Solaris	
Logging in to CMS	707
Logging in to CMS from the remote console	708
Logging in to CMS from the server console	709
Administering passwords	711
Changing a user's password	712

Administering password aging	714
Using Solaris printer commands.	715
Chapter 13: Using timetables and shortcuts	
Timetables	719
Creating and scheduling a timetable	722
Adding tasks to a timetable	726
Listing all timetables	728
Copying a timetable	729
Copying timetable tasks	731
Modifying timetable tasks	734
Editing timetables globally	736
Globally editing tasks in a timetable	739
Deleting tasks from a timetable	743
Deleting a timetable	745
Shortcuts	747
Creating a shortcut	749
Adding tasks to a shortcut	751
Running a shortcut	753
Modifying a shortcut description	754
Copying a shortcut	755
Copying shortcut tasks	757
Modifying shortcut tasks	759
Deleting shortcut tasks	761
Deleting a shortcut	763
Appendix A: Related Documentation	
Glossary	773
Index	787

About this information product

This information product provides instructions on administering a contact center through *Avaya CMS Supervisor*. It is for the use of *Avaya Call Management System* (CMS) administrators who have access to all parts of CMS or Split/Skill supervisors with limited access.

This information product specifically addresses the functionality of CMS.

Safety labels

Actions or inactions that may cause difficulties are labeled as follows:

**CAUTION:**

Indicates that failure to take or avoid a specified action could result in loss of data.

**WARNING:**

Indicates that failure to take or avoid a specified action could result in physical harm to the operator or the equipment.

Reasons for reissue

The information in this document is being reissued for the following reasons:

- Added additional information to *What is Avaya CMS?*. For more information, see [How Avaya CMS stores ACD data](#) on page 20, [ACD Administration](#) on page 24, and [How Avaya CMS tracks ACD data](#) on page 25.
- Updated the information in [Administering password aging](#) on page 714 to reflect the current functions of the feature.
- Added a note to [Using Solaris printer commands](#) on page 715 that contains information about the Avaya CMS port administration tool.
- Added additional information to *Data Backup*. For more information, see [Things to consider when backing up or restoring data](#) on page 626.

How to use this information product

This document contains the following chapters to assist in the administration of a contact center:

<i>To learn about...</i>	<i>See this chapter...</i>
This document, password information, and cross-references for <i>Avaya CMS Supervisor</i> usage	Chapter 1: Introduction
Configuring <i>Supervisor</i> options	Chapter 2: Configuring Avaya CMS Supervisor
Creating synonyms in the Dictionary	Chapter 3: Using the Dictionary to name contact center entities
Basic use of the Reports subsystem	Chapter 4: Using reports
Scripting common actions	Chapter 5: Scripting CMS operations
Changing agent splits/skills, creating agent templates, moving extensions between splits, and using agent trace	Chapter 6: Administering contact center agents
Adding or deleting call work codes and split/skill call profiles, changing VDN skill preferences, viewing trunk group assignments, changing VDN call profiles, and other contact center activities	Chapter 7: Administering the contact center configuration
Defining exceptions and running exception reports for agents, split/skills, trunk groups, VDNs, and vectors	Chapter 8: Administering exceptions
Creating users and defining, changing, or modifying associated <i>CMS</i> permissions	Chapter 9: Administering user permissions
Changing the state of <i>CMS</i> , allocating storage space, specifying storage intervals, and other system setup activities	Chapter 10: Configuring CMS system settings
Understanding backups, restores, backup strategies, the maintenance reports, backup volumes, and labeling	Chapter 11: Maintaining CMS
The Sun Microsystems, Inc. <i>Solaris</i> [®] operating system and using it with <i>CMS</i>	Chapter 12: Using Solaris

How timetables and shortcuts streamline activities	Chapter 13: Using timetables and shortcuts
A list and descriptions of CMS-related documentation	Appendix A: Related Documentation

Conventions used

The following conventions are used in this information product.

Product release

A MultiVantage system may be referred to as “switch”. Unless otherwise noted, the term MultiVantage includes Release 11.

Typography

A **monospaced font** designates *input* and *output*.

- Input is something you enter into the user interface. For example, "Enter **x** next to Printer, Terminal, or File."
- Output is a character, word, or phrase that the system generates. For example, **Please wait for initialization**

A **Bold font** indicates interface items, window titles, and features/subsystems within Avaya CMS.

An *Italic font* indicates emphasis or the names of documents or other products.

Supported software

This document supports *Avaya CMS Supervisor Version 11* and *Avaya Call Management System Release 3 Version 11*.

CMS Helpline and support services

Avaya offers Helpline support tailored to the specific needs of your company and your Avaya CMS system.

If you have a problem with CMS, call the Avaya Customer Care Helpline at (800) 242-2121 to report the problem and obtain a trouble ticket number. For customers outside the United States and Canada, please contact your local Avaya distributor or representative.

The Customer Care Helpline is staffed by trained CMS technicians at the Technical Service Center (TSC). The technicians at TSC will try to fix your problem in a timely manner. If they cannot fix it, they will escalate the problem to a higher level of customer support.

Avaya also offers a support website at <http://www.avaya.com/support>. This website allows customers to register online, generate trouble tickets, view frequently asked questions, and download software updates.

Providing information

When calling the Helpline, be sure to report the problem as an “Avaya Call Management System problem” and be prepared to give the following information:

- Your full name, your organization, and a telephone number where an Avaya representative can contact you about the problem.
- The installation location (IL) number. The IL number is a 10-digit number from an Avaya database that identifies the details of your CMS installation and environment.
- The MultiVantage and CMS release information.
- The CPU type and speed.
- The Microsoft Windows[®] operating system being used (if you are using Avaya CMS Supervisor.)
- A description of the problem.
- The type of service contract your organization has with Avaya, if any. If your system is not covered by warranty or a service contract, you will be invoiced for the Helpline troubleshooting. A service contract may provide coverage for business hours only or for 24 hours a day, 7 days a week. The contract may also provide you with a dedicated technician for your installation.

Chapter 1: Introduction

This section provides introductory information on *Avaya CMS Supervisor* and complementary products. Basic information regarding the interfaces and usage of *Supervisor* can be found in the *Avaya CMS Supervisor Installation and Getting Started* document.

Contents

This section contains the following topics:

- [What is Avaya CMS?](#) on page 20
- [Optional features](#) on page 27

What is Avaya CMS?

Avaya CMS is a software product for businesses and organizations that have an Avaya MultiVantage system and receive a large volume of telephone calls that are processed through the Automatic Call Distribution (ACD) feature. *Avaya CMS* collects call-traffic data, formats management reports, and provides an administrative interface to the ACD feature on the MultiVantage system.

A *CMS* administrator accesses the *CMS* database, generates reports, administers ACD parameters, and monitors call activities to determine the most efficient service for the calling customers.

Operating system

Avaya CMS resides on the Sun Microsystems, Inc. *Solaris* operating system and uses several *Solaris* system utilities to communicate with terminals and printers, to log errors, and to execute processes. *CMS* utilizes the Informix Software, Inc. *INFORMIX*® database management system, which provides an interface to the *CMS* historical database.

How Avaya CMS stores ACD data

There are two ways to describe how Avaya Call Management System (CMS) stores ACD data:

- Logically – How the CMS system organizes data for processing
- Physically – How the CMS system mechanically stores the data on the disk drive

How Avaya CMS logically stores ACD data

The logical storage of the ACD data has more impact on the CMS user than does the physical storage. The logical data storage controls how a CMS user is able to access and manipulate ACD data. CMS stores all of the ACD data received from the switch in the real-time and historical databases.

Real-time databases

Real-time databases include tables for the current intrahour interval data and the previous intrahour interval data. The storage interval can be 15, 30, or 60 minutes.

Historical databases

Historical databases include tables for the intrahour, daily, weekly, and monthly data. The following table shows all of the historical database tables and the maximum amount of time data can be stored in a particular table:

Historical database tables	Maximum time for data storage
Intrahour historical data	62 days
Daily historical data	5 years (1825 days)
Weekly historical data	10 years (520 weeks)
Monthly historical data	10 years (120 months)

Note:

You can use historical data to predict future call traffic and future agent and trunk requirements. For more information see *Avaya CMS Forecast*, 585-215-717.

Data summarizing

When CMS collects data from the ACD, the data is stored in the real-time database for the current interval. At the end of the current interval, the following events occur:

- The data that was in current interval database table is archived to the previous interval database table.
- The data that was in previous interval database table is archived in the historical database as intrahour historical data.

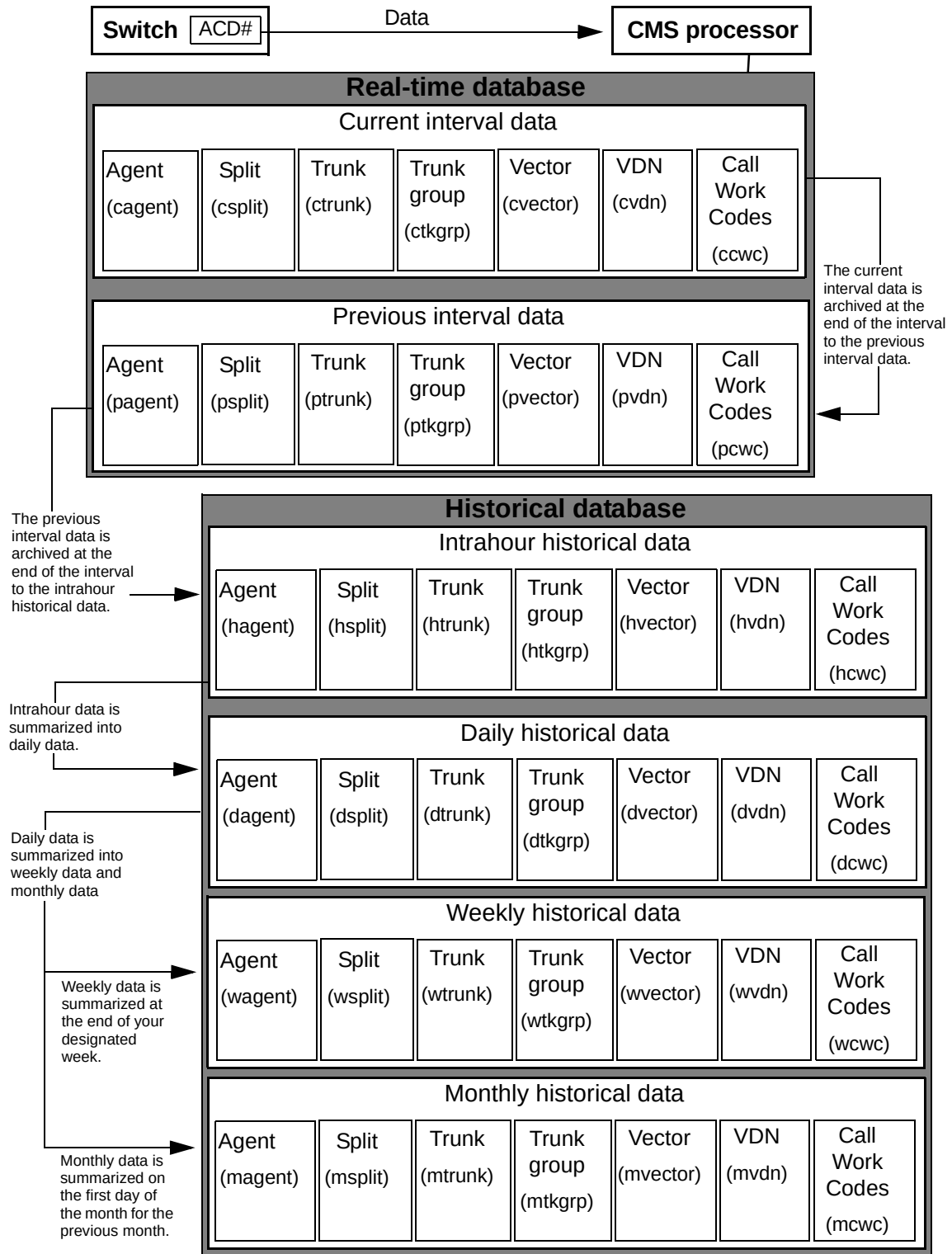
The data remains in the historical database as intrahour historical data for a maximum of 62 days. At your designated data summarizing time, the intrahour historical data is summarized into daily historical data.

The daily historical data is summarized on a weekly and monthly basis. At the end of your designated week, the daily historical data is summarized into weekly historical data. On the first day of a new month, the daily historical data is summarized into monthly historical data for the previous month.

For more information, see [CMS data storage](#) on page 22.

CMS data storage

This figure shows how CMS stores data.

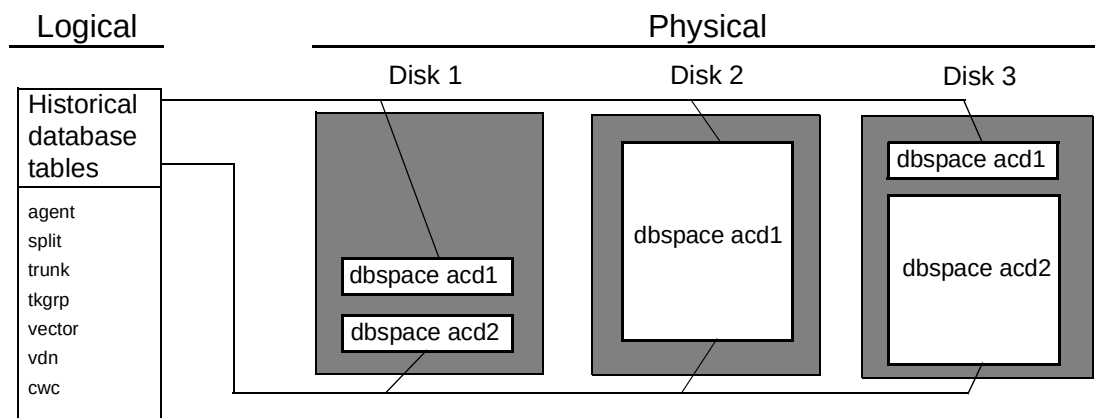


How Avaya CMS physically stores ACD data

The relational database used by CMS R3V9 and later is Informix Dynamic Server (IDS). IDS manages the CMS data in specific dbspaces. The historical database can span multiple disks. Each ACD dbspace contains the CMS historical database table for a single ACD.

In the following example:

- The dbspace acd1 contains the historical database table for ACD 1
- The dbspace acd2 contains the historical database table for ACD 2



Dbspace

A dbspace is a logical unit that consists of one or more chunks. Dbspaces can exist across multiple disks. A CMS system contains the following dbspaces:

- rootdbs
- physdbs
- logdbs
- dbtemp
- aasdb
- cmsdbs
- freedbs
- acd1 through acd26

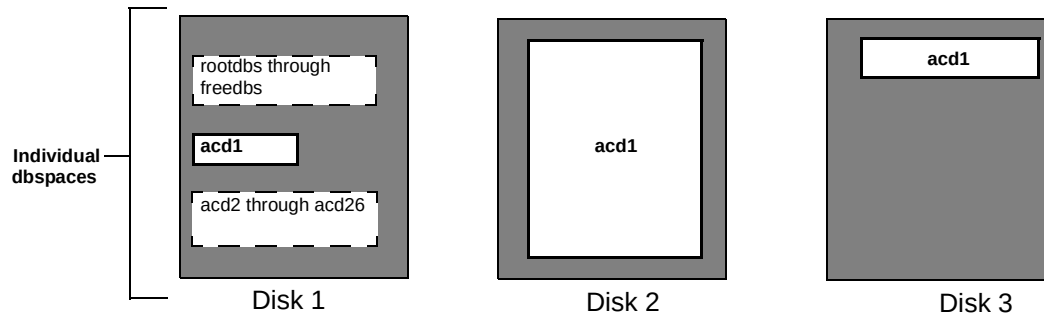


Important:

Do not attempt to alter rootdbs, physdbs, logdbs, dbtemp, aasdb, or cmsdbs. Contact CMS services if you think you have a problem with any of these dbspaces.

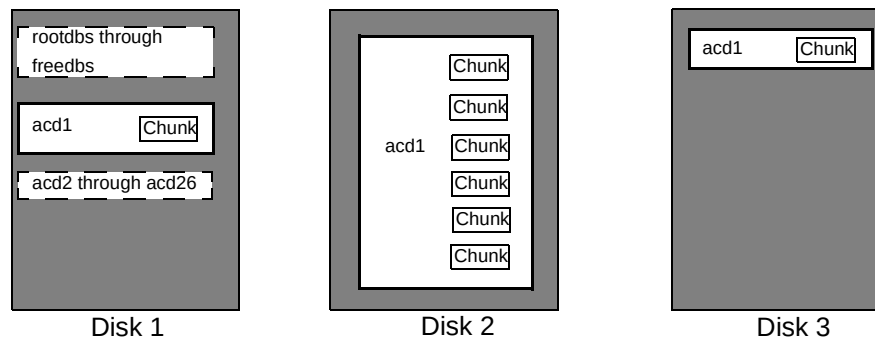
Introduction

In the following example, the dbspace acd1 exists across multiple disks.



Chunks

A chunk is a unit of physical disk space used to store database data that is managed by IDS. Each chunk contains 256 MB of disk space. In the following example, the dbspace acd1 contains multiple chunks.



ACD Administration

CMS provides an administrative interface to the switch. From the ACD interface, you can view or change parameters on the switch related to ACDs, Call Vectoring, and Expert Agent Selection (EAS). An administrator can also run reports that describe your contact center configuration.

For example, an administrator can:

- Add or remove agents from splits or skills
- Move extensions between splits
- Change skill assignments
- Change trunk group-to-split
- Change trunk group-to-VDN
- Change VDN-to-vector assignments

- Start an agent trace
- List the agents being traced
- Create, copy, and edit call vectors

How Avaya CMS tracks ACD data

CMS uses the data in the real-time and historical databases to generate standard reports that help you monitor your contact center's activities. Various agent, split/skill, trunk, trunk group, vector, and VDN activities are tracked at different points in the call process.

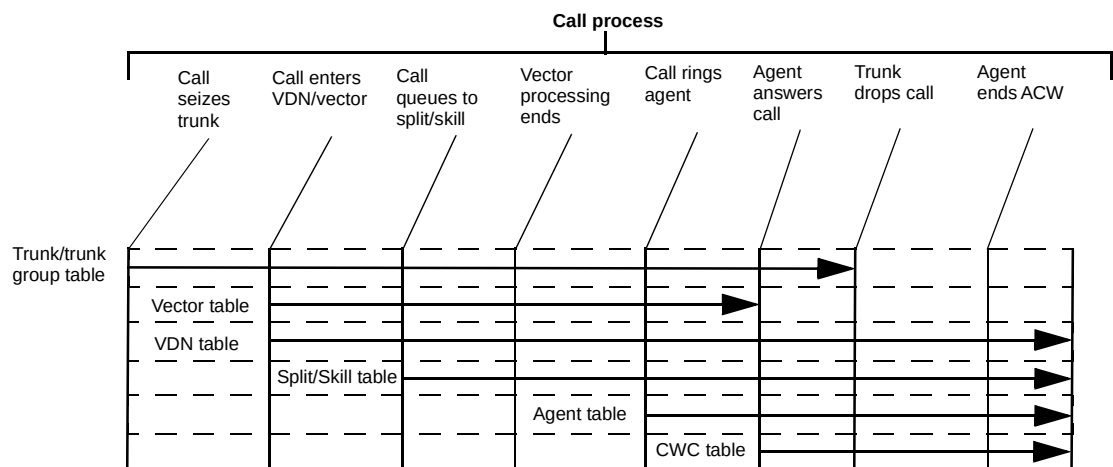
How CMS tracks a call

The following diagram shows how CMS tracks a call from the time the call seizes a trunk until an agent ends after-call-work (ACW) activity.

The trunk table, trunk group table, vector table, VDN table, split/skill table, agent table, and call work code (CWC) table are CMS database tables that store call data. In the following diagram, the positions of the CMS database tables identify the points where CMS begins to collect call data. The arrowheads identify the points where data collection ends. The data is not recorded in the tables until the call and any ACW is complete.

Note:

With vectoring, the **Stop** command stops the processing of vector commands.



Events that start or stop data collection

Data collection starts or stops when one of these events occur:

- The Agent table starts collecting data on non-ACD calls when the agent answers or completes dialing.
- The Split/Skill table stops collecting data when:
 - The ACW for an ACD call ends
 - The call leaves the split queue and is forwarded to another destination (for example, intraflow)
 - The caller abandons the call
- The Vector table stops collecting data for the current vector when the call is:
 - Sent to an ACD agent
 - Connected to a station or trunk
 - Routed to a VDN or vector
 - Abandoned by the caller

Note:

Time in the vector stops but the vector tracks the call disposition to determine if the call was answered or abandoned.

- The VDN table stops collecting data for the current VDN when:
 - The ACW for an ACD call ends
 - The call is routed to a trunk or VDN
 - The call is transferred
 - The caller abandons the call

Optional features

This section lists features that can be purchased for use with Avaya CMS.

Call Vectoring

Call vectors are user-defined, call-processing programs. The Call Vectoring feature enables you to create, copy, and edit call vectors on MultiVantage systems. Call vectors direct calls to specified on-network or off-network destinations, to queues in ACD splits, to call prompting, and digit collection. Calls can also be directed to treatments such as music, recorded announcements, forced disconnect, and forced busy.

On the MultiVantage system and CMS, Call Vectoring is a separately purchased feature; however, all Call Vectoring commands are described in this information product. A description of the **Vector Contents** window that is used to create, copy, and edit call vectors and the allowed values for all the vectoring commands can be found in the *Avaya MultiVantage Call Center Software Release 11 Call Vectoring and Expert Agent Selection (EAS) Guide*. The **Vector Contents** window is only available through the ASCII interface of the CMS server.

Another separately purchased product, *Avaya Visual Vectors*, provides vector administration capabilities on Windows-based platforms.

See *Visual Vectors Release 11 User Guide* for more information.

Expert Agent Selection

Expert Agent Selection (EAS) is an optional MultiVantage system feature that routes incoming calls to the right agent on the first try. When you use the ACD queuing and the vector **Queue - to** and **Check** commands, a call is routed to an agent who has the skills to handle that call.

With EAS, call distribution is based on skill groups to which agents are assigned. If a caller's problem requires specific skills, EAS can route the call to an agent who is a member of the necessary skill group. Agents can be assigned to multiple skill groups.

The different MultiVantage systems have different EAS capabilities so you will need to plan ahead to add EAS. See [Chapter 6: Administering contact center agents](#) and [Chapter 7: Administering the contact center configuration](#) for more information on EAS.

If you do not have EAS, call distribution is based on splits.

Forecast

Avaya CMS Forecast is an optional *CMS* feature. This product enables you to generate reports that predict both future call traffic and the resources that you will need to meet call-handling objectives. See the *Avaya CMS Forecast* document for more information.

Avaya Business Advocate

Avaya Business Advocate is an optional switch feature that provides flexibility in the way a call is selected for an agent in a call-surplus situation. See the *Avaya Business Advocate - R11 User Guide* for more information.

ODBC

Open Database Connectivity (ODBC) is an optional *CMS* feature that enables you to access data in the *CMS* database for use in other software applications such as a spreadsheet program. With ODBC, you can access *CMS* data directly from your application.

Disk Mirroring

Disk Mirroring is an optional feature of *CMS* that provides you with a completely redundant set of data, helping to ensure data security. Disk Mirroring is a feature of the *Solstice DiskSuite* software package. It allows you to build a hard disk system containing multiple complete sets of data. Having such data redundancy greatly reduces the risk of data loss should a hard disk drive fail or your system crash.

Chapter 2: Configuring Avaya CMS Supervisor

This section contains information regarding configuration of *Avaya CMS Supervisor* through the **Options** window.

The **Options** window allows you to adjust and control the following types of settings:

- The default ACD for all operations and reports windows
- Scripting defaults
- Colors used in *Supervisor* reports
- Formatting of the different types of fields displayed in *Supervisor* reports

Contents

This section contains the following topics:

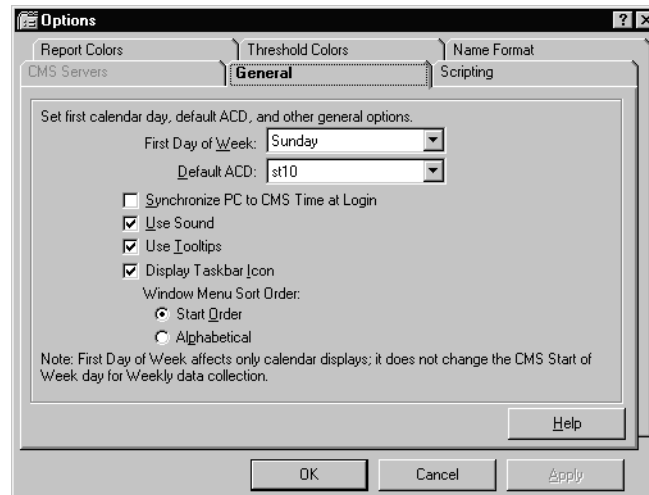
- [General tab](#) on page 30
- [Scripting tab](#) on page 32
- [Report Colors tab](#) on page 33
- [Threshold Colors tab](#) on page 36
- [Name Format tab](#) on page 39

Before you begin

Except for the **CMS Servers** tab, all other tabs of the **Options** window are only available after a successful login to a *CMS* server. The **CMS Servers** tab is disabled when logged in to a *CMS* server.

General tab

Use the **General** tab to set your first calendar day, default ACD, and other interface usage options.



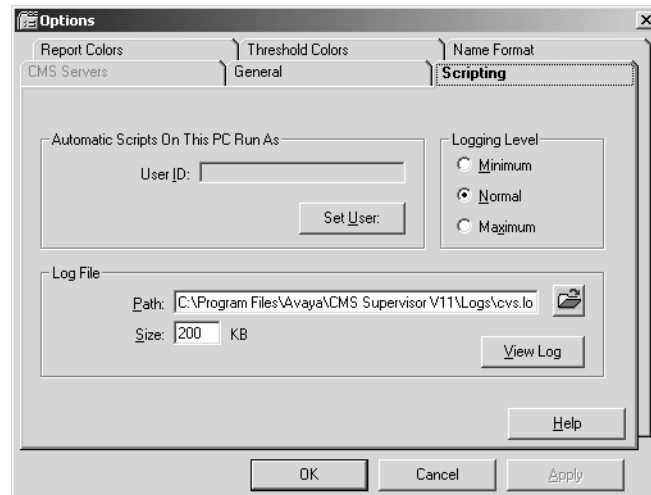
This tab of the **Options** dialog contains the following controls:

- **First Day of Week** – This option affects only how the calendar is displayed. For example, if you browse for a date, the calendar starts the week based on the day that you choose. It does not change the *Start of Week* day for weekly data collection which is set through the **System Setup – Storage Intervals** window.
- **Default ACD** – Select the ACD that will be used as the default ACD for operations and reports windows. Note that an ACD Group can also be set as the default.
- **Synchronize PC and CMS Time at Login** – Select this check box to change the internal clock of the PC to match the current time on the CMS server. This option does not affect the time on the CMS server.
- **Use Sound** – Select this check box to receive an audible alert when the **Exceptions Indicator** box is updated. The **Exceptions Indicator** box is located on the Controller status bar. The sound that you hear is the sound that you chose for the *exclamation event* in Windows. Note that Threshold Highlighting does not use sound. It uses color only as an indicator of a threshold being met.
- **Use Tooltips** – Select this check box to make tooltips visible for the controls in the *Supervisor* interface. For example, when you are working in the *Supervisor* Controller window, you can place your mouse cursor over a toolbar button and the system displays a yellow box that provides a brief description of that button.

- **Use Taskbar Icon** – Select this check box to have *Supervisor* place an icon in the system tray.
- **Window Menu Sort Order** – Use this option group to determine how items that are displayed in the menu for system tray icon are sorted:
 - **Start Order** – Select this option to display the items in the system tray icon menu where the last item used appears at the top of the menu.
 - **Alphabetical** – Select this option to display the items in the system tray icon menu in alphabetical order.

Scripting tab

Use the **Scripting** tab to set the user ID used to run scripts, adjust the logging level, and set the file used for logging.

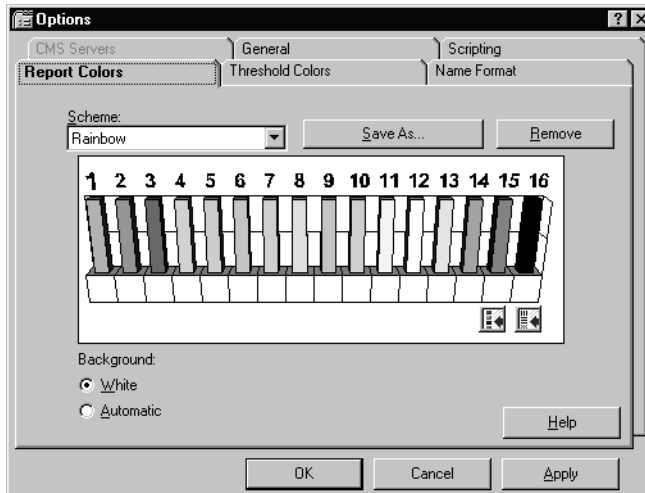


This tab of the **Options** dialog contains the following controls:

- **User ID** – The login ID for a *CMS* user.
- **Set User Button** – Select this button to open the **Save as Script - User Information** dialog box.
- **Logging Level** – This option group allows the following logging levels in configuring the amount of information that is recorded during the use of scripting:
 - **Minimum** – The only activities that will be logged are errors and messages from *Supervisor* that would have been displayed to the window as if the user performed the scripted activity manually.
 - **Normal** – All of the above activities are logged plus the start and stop time of each task of the script. The script name is also included.
 - **Maximum** – All of the above activities are logged plus additional information that may be useful for debugging a script. Any message that displays as the script runs is logged.
- **Log File Path** – Enter the path and filename of the logfile in this field. You may also use the Browse button to the right of this field to select an existing file on the PC.
- **Log File Size** – This field determines how large the script log file can get before it is begins replacing the oldest data. The field defaults to a value of 200KB.
- **View Log Button** – Select this button to view the script log file.

Report Colors tab

Use the **Report Colors** tab to set the colors that are used in your graphical reports.



This tab of the **Options** dialog contains the following controls:

- **Scheme** – This drop-down list box contains all of the existing color schemes available.
- **Save As** – Selecting this button saves any changes made in the color bar window as a new scheme. See [Creating a new report color scheme](#) on page 33 for instructions on creating report color schemes.
- **Remove** - Selecting this button deletes the currently displayed scheme.
- **Color window** - This displays of 16 bars allows you to change the color and pattern of each bar by performing a right-click on that bar.
- **Background** – There are two choices for the background color of reports:
 - **White** – Select this option to display a white background for all reports.
 - **Automatic** – Select this option to have the background of all reports use the color scheme configured through *Windows*.

Creating a new report color scheme

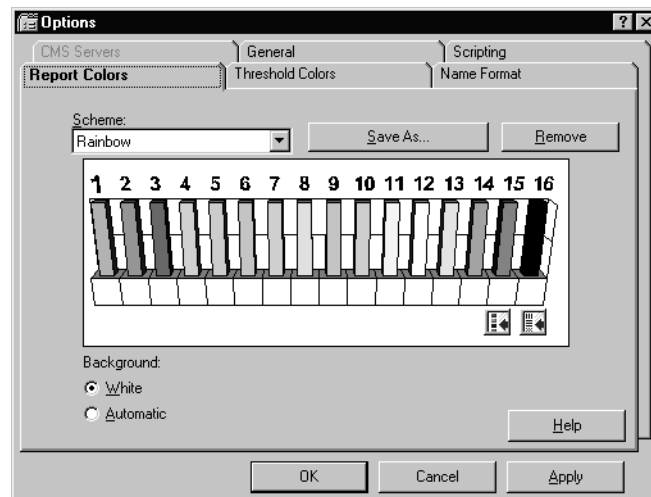
To create a new color scheme for reports:

1. From the menu bar of the Controller window, select **Tools > Options**.
Supervisor displays the **Options** window.
2. Select the **Report Colors** tab.

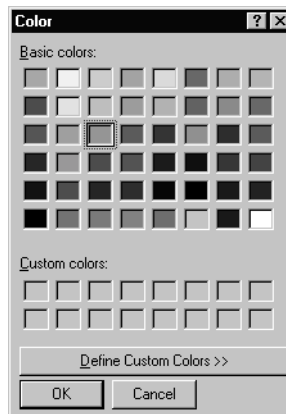
Configuring Avaya CMS Supervisor

3. From the **Scheme** drop-down list, select the color scheme you want to use as a basis for the new color scheme.

Supervisor displays the configuration of the scheme in the color bar window.



4. From the **Background** options, select **White** or **Automatic**.
5. Click the color bar (1 through 16) that you want to modify.
6. If you want to modify the color, select the **Change Color** button and select the color through the **Color** dialog that is displayed..

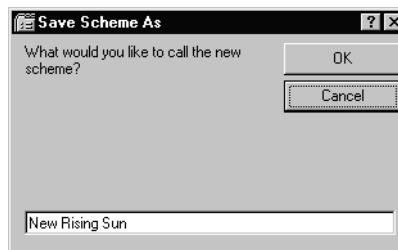


7. If you want to modify the pattern, select the **Change Pattern** button and select the pattern from the resulting list.



8. Repeat Step 5 through Step 7 until you have updated all of the color bars that you want to modify.
9. When you are done modifying color bars, select the **Save As** button.

Supervisor displays the **Save Scheme As** window.



Note:

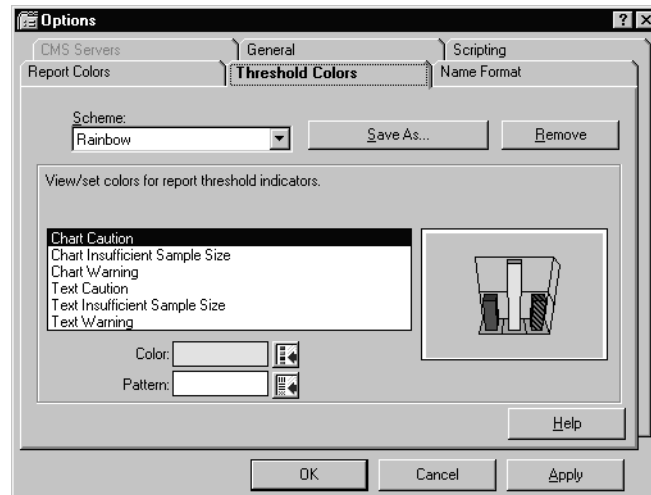
If you do not save the new color scheme using the **Save As** button, the changes that you have made will overwrite the default color scheme that you modified.

10. Enter a name for this new color scheme in the text box.
11. Select **OK** to save this scheme.

To view the changes that you made to a color scheme at any point in the modification, select the **Apply** button. The current color scheme is then applied to any reports that are running.

Threshold Colors tab

Use the **Threshold Colors** tab to set the colors that are used in reports to notify you when exceptions thresholds are reached.



This tab of the **Options** dialog contains the following controls:

- **Scheme** – This drop-down list box contains all of the existing color schemes available.
- **Save As** – Selecting this button saves any changes made in the color bar window as a new scheme. See [Creating a new threshold color scheme](#) on page 37 for instructions on creating new color schemes.
- **Remove** - Selecting this button deletes the currently displayed scheme.
- **View/set colors for report threshold indicators** – This list box displays the states used for exception thresholds. A graphical representation of the selected state is displayed in the area to the right.
- **Color** – Use the button to the right of this field to change the color for the selected exception threshold state.
- **Pattern** – Use the button to the right of this field to change the graphical pattern applied for the selected exception threshold state.

Creating a new threshold color scheme

To create a new threshold color scheme for reports:

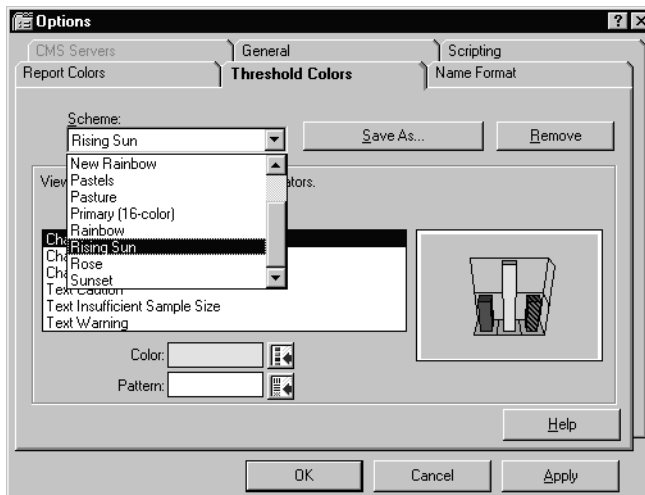
1. From the menu bar of the Controller window, select **Tools > Options**.

Supervisor displays the **Options** window.

2. Select the **Threshold Colors** tab.

3. From the **Scheme** drop-down list, select the color scheme you want to use as a basis for the new color scheme.

Supervisor displays the view of the scheme.

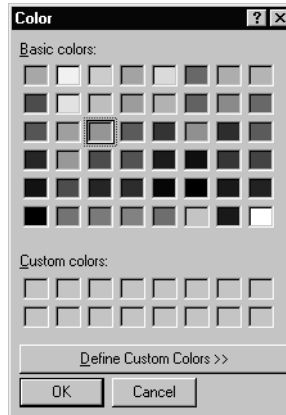


4. In the **View/set colors for report threshold indicators** list, select the item you want to change.

Supervisor displays the current setting for the selected item in the area to the right of the list box. The **Color:** and **Pattern:/Background:** fields display the respective settings for the current item.

5. If you want to change the color of the selected item, select the **Change Color** button at the right of the **Color:** field.

Supervisor displays the standard **Color** window from Windows allowing you to select the new color.

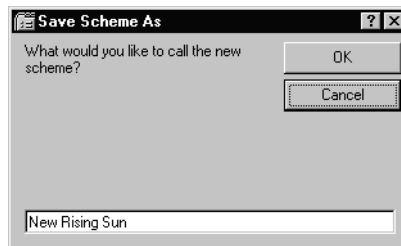


6. If you want to change the pattern/background color for the selected item, select the button at the right of the **Pattern:/Background:** field.

Depending on the item selected, *Supervisor* will display either the pattern list or the **Color** window which allows you to select a new pattern or background color.

7. Repeat Steps 4 through 6 until you have updated all of the threshold element colors that you want to modify.
8. When you are done modifying the threshold element colors, select the **Save As** button.

Supervisor displays the **Save Scheme As** window:



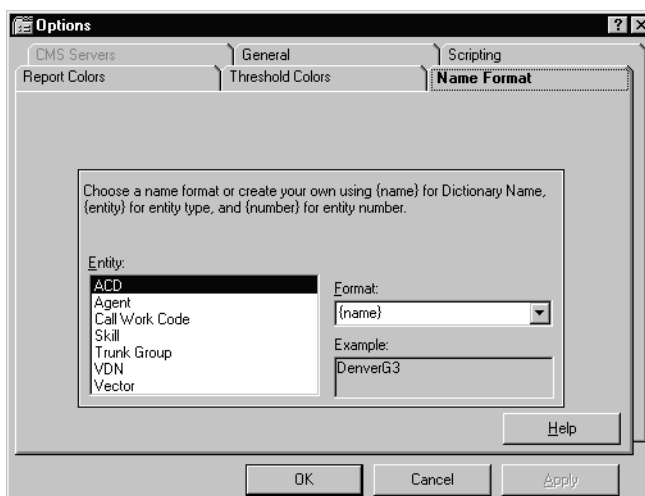
9. In the text box, enter a name for this new threshold color scheme you have just created.
10. Select the **OK** button to save this new color scheme.

To view the changes that you made to a color scheme at any point in the modification, select the **Apply** button. The current color scheme is then applied to any reports that are running.

Name Format tab

Use the **Name Format** tab to choose or create formats for how CMS entities (splits/skills, ACDs, VDNs, vectors, trunks, trunk groups, call work codes, and AUX codes) are displayed in *Supervisor*. The display can be set to any one or a combination of {name} for Dictionary Name, {entity} for entity type, and {number} for entity number.

Choose or create a name format using {name} for entity name (as entered in the Dictionary), {entity} for entity type, and {number} for entity number. These formats determine how items are displayed in reports. For example, if you select the name format of {entity}{number}, all of the entities that can be named in the Dictionary are displayed as the entity type and number instead of the name defined in the Dictionary. If you selected {name} as the name format, the names that are assigned to the entities in the Dictionary are displayed.



Defining entity formats

To define the name format for an entity:

1. From the **Entity** field, select the item for which you want to change the format.
 2. In the **Format** field, use one of the following methods to select a format for the specified entity type:
 - Manually enter the format that you want using the three possible types: {name}, {entity}, and/or {number}. It is not necessary to use a separator character between formats unless you want the separator to appear in the report.
For example, if you want to display agent names and extension numbers on reports, enter {name} {number} in the **Format** box.
 - Use the drop-down list to choose from a set of preformatted options.
The **Example** field provides an example of what the format looks like based on your current definition.
- If you entered a nonstandard name format, it is not saved in the **Format** list.
3. Select **OK** to save your changes.

Chapter 3: Using the Dictionary to name contact center entities

This section provides information on procedures for using the Dictionary to administer names associated with contact center entities.

The Dictionary subsystem is used to assign synonyms or names to contact center entities. The following list gives a short sample of the items used in the Dictionary:

- Login IDs
- Splits/skills
- Call work codes
- ACDs
- AUX reason codes
- Logout reason codes
- Trunk groups
- VDNs
- Vectors

The Dictionary also allows users to work with items in the database such as:

- Viewing standard database items
- Viewing standard calculations
- Creating and administering custom calculations
- Creating and administering constants
- Creating and administering custom database items

The names assigned through the Dictionary appear on reports to help users understand them better. The Dictionary also makes it possible for users to create agent groups, change agent splits/skills, and change trunk string values for reporting purposes. The Dictionary also provides a global search function to find any item within it.

Contents

This section contains the following items:

- [Searching the Dictionary](#) on page 45
- [ACD Groups](#) on page 49
- [ACDs](#) on page 53
- [Agent groups](#) on page 57
- [Agent string values](#) on page 69
- [Announcement names](#) on page 75
- [AUX reason code names](#) on page 81
- [Calculations](#) on page 91
- [Call work codes](#) on page 99
- [Constants](#) on page 107
- [Custom database items](#) on page 113
- [Generic string values synonyms](#) on page 119
- [Location IDs](#) on page 123
- [Login ID names](#) on page 129
- [Logout reason code names](#) on page 137
- [Split/skill string values](#) on page 147
- [Split/Skill names](#) on page 153
- [Standard database items](#) on page 161
- [Trunk group names](#) on page 165
- [Trunk string values](#) on page 173
- [VDN names](#) on page 179
- [Vector names](#) on page 187
- [Dictionary reports](#) on page 195

Before you begin

If an ACD Group is selected as the current ACD in the **Dictionary** window, only those operations that are valid for the ACD Group will appear in the **Operations:** list.

Dictionary rules

The following rules apply to the names assigned in the Dictionary:

- Dictionary names can have from 1 to 20 characters.
- Names (synonyms) must begin with an alphabetic character.
- Dictionary names can include the following characters:
 - Any alphanumeric character
 - Underscore (_)
 - Blank ()
 - Comma (,)
 - Period (.)
 - Apostrophe (')
 - Plus sign (+)
- Blanks () are allowed in all Dictionary names *except*:
 - Calculation names
 - Constant names
- Names must be unique within each section of the Dictionary for an ACD.

For example, you can name trunk group 1 as *sa/es*, and split/skill 1 as *sa/es*, but you cannot name split/skill 1 as *sa/es* and split/skill 2 as *sa/es* on the same ACD.
- Fields and entries made in the Dictionary are case-sensitive.

The following rules apply to the descriptions assigned in the Dictionary:

- Descriptions in the Dictionary can have from 1 to 50 characters.
- Descriptions can include all printable characters *except*:
 - Semicolon (;)
 - Backward slash (\)
 - Grave accent (`)
 - Tilde (~)
 - Double quotes (")
 - Pipe symbol (|)
 - Asterisk (*)
 - Question mark (?)

Using the Dictionary to name contact center entities

Searching the Dictionary

The Dictionary contains a global search feature that can be used to find a wide variety of information.

Some examples of the types of information you can search for in the dictionary are:

- A login ID or a group of login IDs
- A split, skill, or trunk group
- ACD names
- Database items
- Calculations
- Agent names

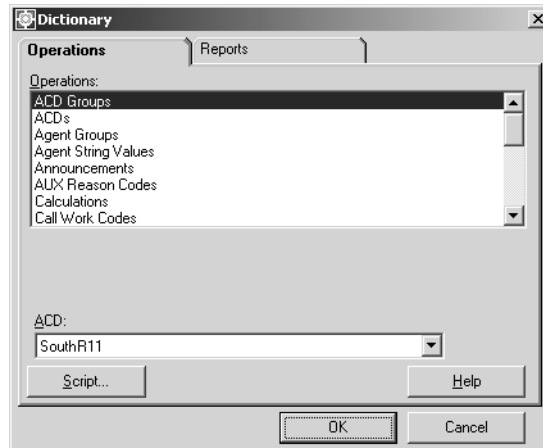
Permissions

To do a global search in the dictionary, you need *write* permissions for the Dictionary subsystem.

Procedure

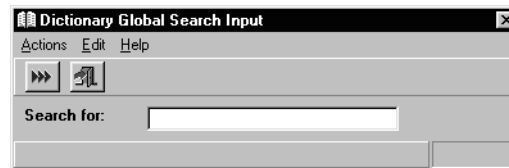
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Global Search**.

Supervisor displays the **Dictionary Global Search Input** window.



Note:

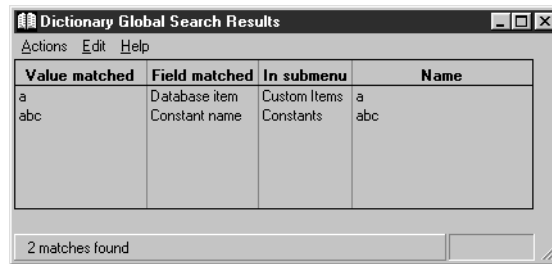
Remember the following before entering search criteria:

- You can search on any pattern
- You can include an asterisk (*) or question mark (?) in your pattern
- The search is case sensitive

3. In the **Search for:** field, enter the item name or pattern.

4. From the **Actions** menu, select **Run**.

Supervisor displays the **Dictionary Global Search Results** window.



Field	Contents
Value matched	Displays the matches for your pattern.
Field matched	Displays the name of the field in the Dictionary that corresponds to value matched.
In submenu	The Dictionary submenu where your search pattern was found.
Name	The name that corresponds to the value matched.

Using the Dictionary to name contact center entities

ACD Groups

This section provides information for viewing ACD Groups in the Dictionary. ACD Groups and the corresponding members can only be viewed through the **Dictionary Operations** window. Administration of ACD Groups is done through the **Call Center Administration** subsystem. The capability of viewing ACD Groups through the **Dictionary** subsystem allows those individuals who only run reports in the contact center to view which ACDs are defined within each ACD Group. This capability can assist these individuals in determining which ACD Groups should be used when running reports.

Note:

For *CMS R3V11*, ACD Groups cannot be selected to display information through standard *CMS* reports. To run reports for ACD Groups, you will need to create custom reports through the *CMS ASCII* interface or have them created for you by contacting the Avaya Professional Services Organization.

For more information on ACD Groups and their usage, see [ACD Groups](#) on page 263

Contents

This section contains the following topics:

- [Listing all ACD Groups](#) on page 51
- [Viewing the contents of an ACD Group](#) on page 52

Before you begin

The following should be read and understood before working with ACD Groups in the Dictionary:

- If the ACD Groups feature has not been purchased, it will not appear in the **Dictionary** or **Call Center Administration** interfaces.
- If you add an ACD Group, you will need to log out of *Supervisor* and log back in to see this group as a choice in the appropriate dialogs.
- An ACD Group cannot serve as the *CMS* master ACD.
- Overlapping ACD Groups (groups having common member ACDs), could result in synonym conflict within the members of an ACD Group if poorly administered. Because of this capability, entity IDs in overlapping ACD Groups must be mutually exclusive.
- Entity synonyms must be unique for an ACD Group and across all of the ACDs that are members of the ACD Group.
- User permissions are administered separately for an ACD Group and its member ACDs.
- *CMS* real-time custom reports are only displayed if data collection is enabled and the ACD link status is 'up' for at least one member ACD in the specified ACD Group. An error message will be displayed if these conditions are not met.
- Custom reports that are created with the **Single ACD Only** option enabled cannot be run for an ACD Group and vice versa.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

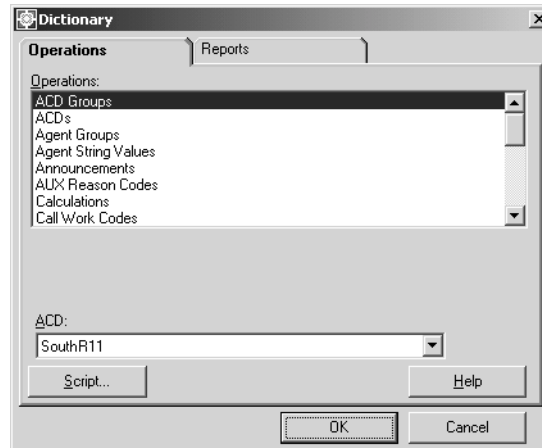
- To view ACD Group names, you need *read* permissions for the Dictionary subsystem and the ACD Group.

Listing all ACD Groups

To view all ACD Groups defined on the CMS server:

1. From the Controller Window, select **Commands > Dictionary**.

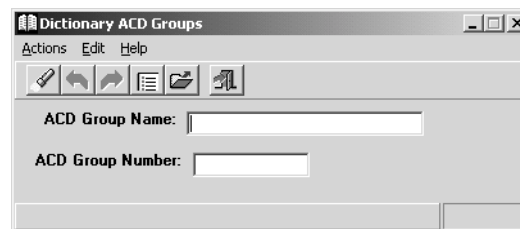
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **ACD Groups**.

3. Select **OK**.

Supervisor displays the **Dictionary ACD Groups** window.



4. From the menu bar, select **Actions > List all**.

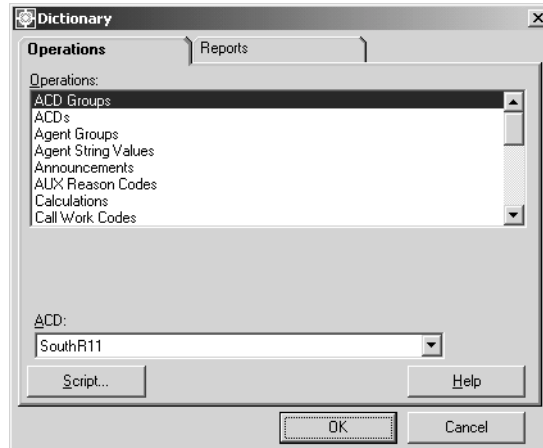
Supervisor displays the **Dictionary ACD Groups List all** window listing all ACD Groups defined on this CMS server.

Viewing the contents of an ACD Group

To view the ACDs assigned to an ACD Group:

1. From the Controller Window, select **Commands > Dictionary**.

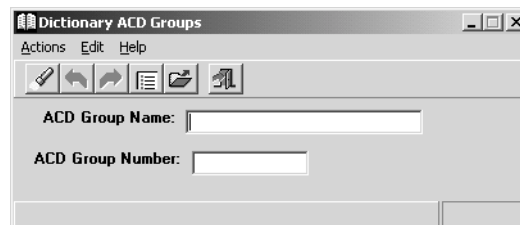
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **ACD Groups**.

3. Select **OK**.

Supervisor displays the **Dictionary ACD Groups** window.



4. In the **ACD Group Name:** field, enter the name of the ACD Group that you want to view.

5. From the menu bar, select **Actions > Find one**.

Supervisor retrieves the information for the specified ACD Group, if valid.

6. From the menu bar, select **Actions > Get contents**.

Supervisor displays the **Dictionary ACD Groups Get contents** window which lists all ACDs assigned to this ACD Group.

ACDs

This section provides information on administering ACD names in the Dictionary. The **Dictionary Operations** window is used to assign names to real and pseudo ACDs. Generated reports will contain the ACDs names, rather than the assigned ACD numbers.

You can add, delete, or change an ACD name regardless of the ACD that you are currently logged in to. For example, you can be logged in to ACD 1 and change the name for ACD 3. This change does not appear on the changed window border of the ACD until you open a new window.



Important:

The Dictionary naming rules apply to these procedures. See [Dictionary rules](#) on page 43 for more information.

Contents

This section contains the following topics:

- [Adding an ACD name](#) on page 54
- [Modifying an ACD name](#) on page 55
- [Deleting an ACD Name](#) on page 56

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

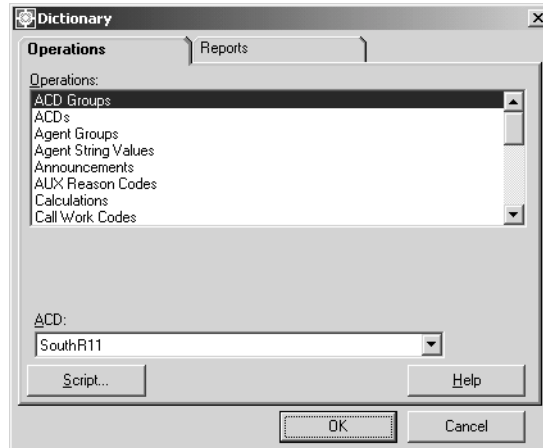
- To add, delete, or modify the name of an ACD, you need *write* permissions for the Dictionary subsystem and for the ACD.
- To view ACD names, you need *read* permissions for the Dictionary subsystem and for the ACD.

Adding an ACD name

To add a name for an ACD to the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

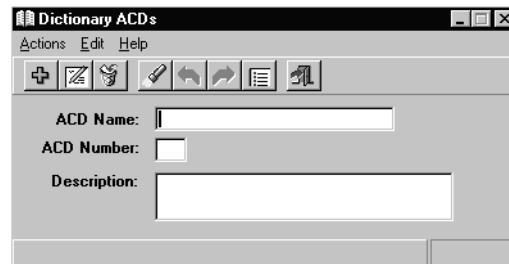
*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **ACDs**.

3. Select **OK**.

*Supervisor displays the **Dictionary ACDs** window.*



4. In the **ACD Name:** field, enter the name of the ACD or ACD Group that you want to add, delete, or change.

The name you assign to an ACD, pseudo ACD, or ACD Group in the Dictionary is displayed on all reports and window titles that are associated with that ACD.

5. In the **ACD Number:** field, enter a number between 1 and 38 to correspond with the new ACD name where 1 through 8 is reserved for real ACDs, 9 through 26 is reserved for pseudo-ACDs, and 27 through 38 is reserved for ACD Groups.

Any additional information about the ACD can be entered in the **Description:** field. Only 50 or fewer characters can be entered in this field.

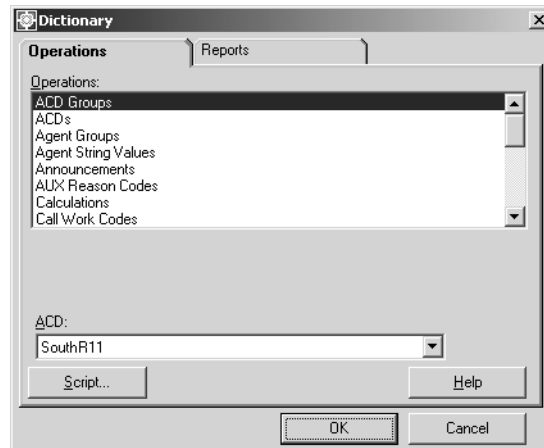
6. To add your changes to the Dictionary, select **Actions > Add**.

Modifying an ACD name

To modify the name of an ACD in the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

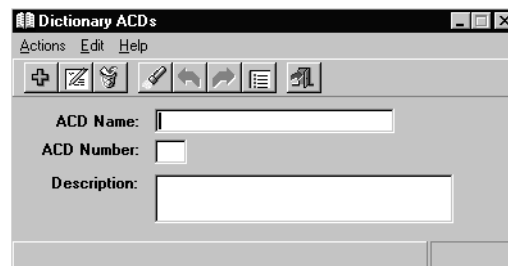
*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **ACDs**.

3. Select **OK**.

*Supervisor displays the **Dictionary ACDs** window.*



4. In the **ACD Number:** field, enter the number of the ACD, pseudo-ACD, or ACD Group that you want to modify.
5. From the **Actions** menu, select **Find One**.
6. In the **ACD Name:** field, enter the new name for the selected ACD.
7. To add your changes to the Dictionary, select **Actions > Modify**.

Deleting an ACD Name

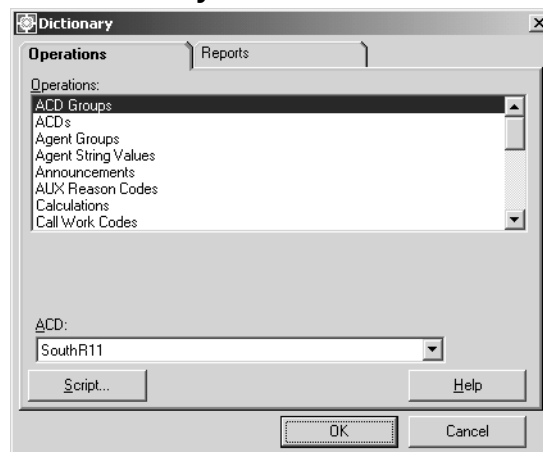
⚠ Important:

Deleting an ACD name from the Dictionary only removes the name of the ACD. The ACD is then displayed as **unnamed_acd *n*** where *n* is the number of the ACD. No warnings are given during the process of deleting an ACD name. This procedure should not be performed unless you are certain that you want to delete the ACD name.

To delete the name of an ACD in the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

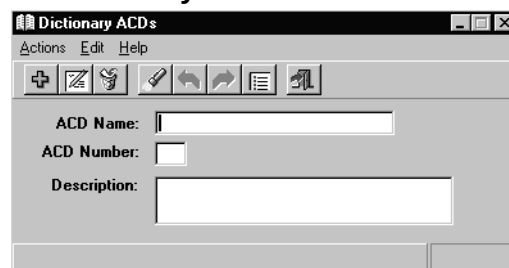
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **ACDs**.

3. Select **OK**.

Supervisor displays the **Dictionary** window.



4. In the **ACD Number:** field, enter the number of the ACD, psuedo-ACD, or ACD Group for which you want to delete the name.

5. From the **Actions** menu, select **Find One**.

The name of the ACD is displayed in the **ACD Name:** field.

6. Select **Actions > Delete** to remove the ACD from the Dictionary.

Agent groups

This section provides procedures for creating and naming, copying, and deleting agent groups in the Dictionary using the **Agent Groups** window.

Contents

This section contains the following topics:

- [Adding an agent group](#) on page 58
- [Listing agents in an agent group](#) on page 60
- [Copying an existing agent group to a new name](#) on page 62
- [Adding agents to an existing agent group](#) on page 64
- [Deleting agents in an existing agent group](#) on page 66
- [Deleting an agent group](#) on page 68

Agents can be grouped for reporting purposes, without regard to the split/skill assignment for the agent. For example, you can create a group for new employees or a group for employees with special skills.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

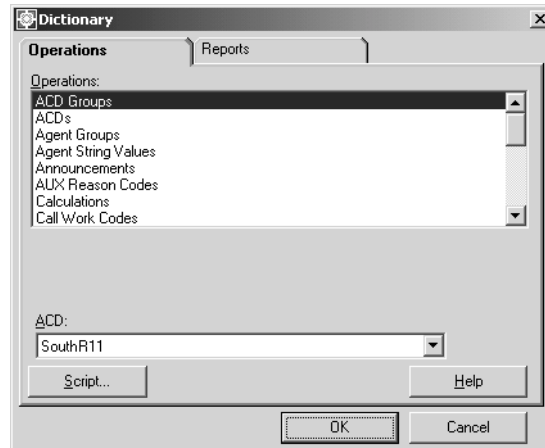
- To add, delete, or modify agent groups, you need *write* permissions for the Dictionary subsystem.
- To view agent groups, you need *read* permissions for the Dictionary subsystem.

Adding an agent group

To add an agent group to the Dictionary:

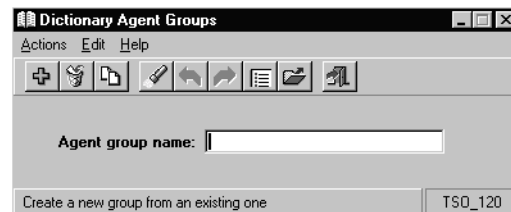
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **Agent Groups**.
3. In the **ACD:** field, enter the ACD or ACD Group on which you want to create the agent group.
4. Select **OK**.

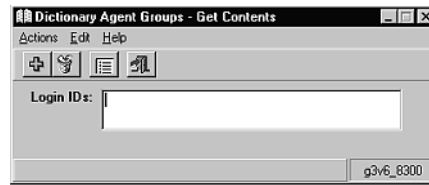
*Supervisor displays the **Dictionary Agent Groups** window.*



5. In the **Agent group name:** field, enter the name of the new agent group.
6. To add the agent group to the Dictionary, select **Actions > Add**.

7. To add the Login IDs for this agent group, select **Actions > Get Contents**.

Supervisor displays the **Agent Groups-Get Contents** window.



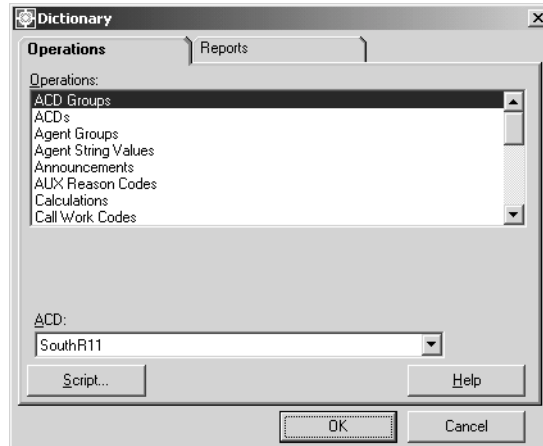
8. Enter the Login IDs for the new group.
9. To add the Login IDs to the Dictionary for this agent group, select the **Actions > Add**.

Listing agents in an agent group

To list the agents defined in an agent group in the Dictionary:

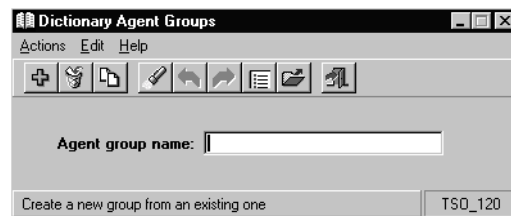
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Agent Groups**.
3. In the **ACD:** field, enter the ACD or ACD Group on which the agent group exists.
4. Select **OK**.

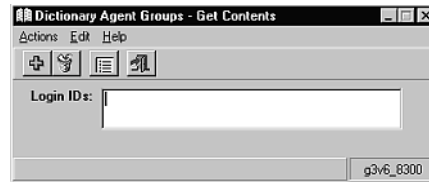
Supervisor displays the **Dictionary Agent Groups** window.



5. In the **Agent group name:** field, enter the name of the agent group.

6. From the **Actions** menu, select **Get contents**.

Supervisor displays the **Agent Groups-Get Contents** window.



7. From the **Actions** menu, select **List All**.

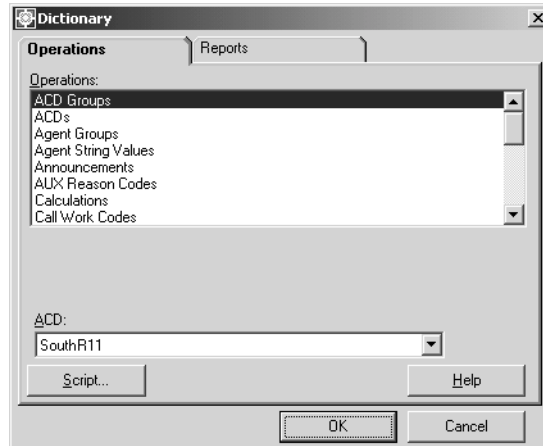
Supervisor displays the **Dictionary Agent Groups-Get Contents-List All** window listing the agents in the group.

Copying an existing agent group to a new name

To copy an existing agent group in the Dictionary to a new name:

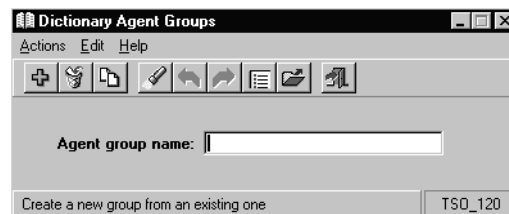
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



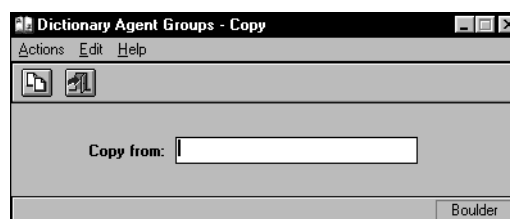
2. In the **Operations:** list, highlight **Agent Groups**.
3. In the **ACD:** field, enter the ACD or ACD Group on which the agent group exists.
4. Select **OK**.

*Supervisor displays the **Dictionary Agent Groups** window.*



5. In the **Agent group name:** field, enter the name of the new agent group.
6. From the **Actions** menu, select **Copy Group**.

*Supervisor displays the **Dictionary-Agent Groups-Copy** window.*



7. In the **Copy from:** field, enter the name of the agent group that you want to copy.

8. From the **Actions** menu, select **Copy Group**.

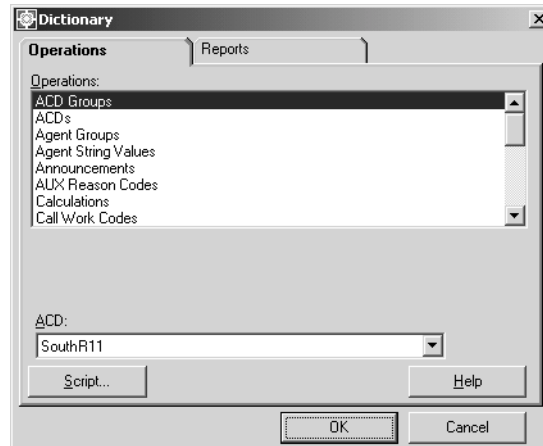
The new agent group is automatically populated with all the agents from the copied group.

Adding agents to an existing agent group

To add agents to a group that already exists in the Dictionary:

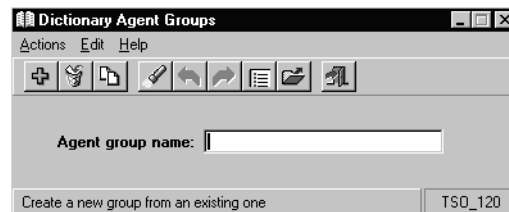
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Agent Groups**.
3. In the **ACD:** field, enter the ACD or ACD Group on which the agent group exists.
4. Select **OK**.

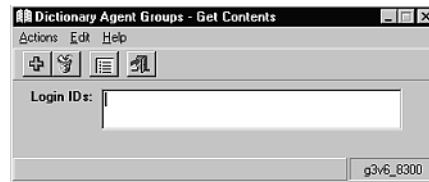
Supervisor displays the **Dictionary Agent Groups** window.



5. In the **Agent group name:** field, enter the name of the agent group to which you will add agents.

6. From the **Actions** menu, select **Get Contents**.

Supervisor displays the **Dictionary-Agent Groups-Get Contents** window.



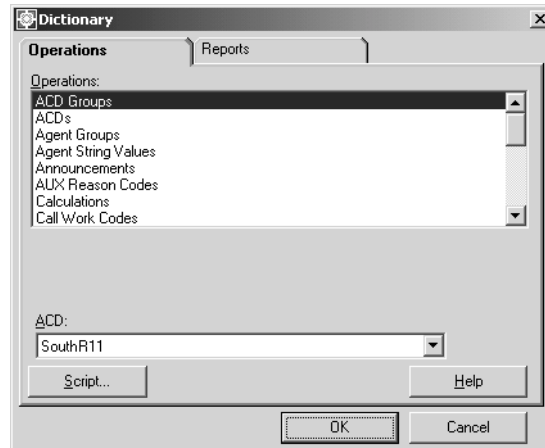
7. Enter the Login IDs that you want to add to this group.
8. From the **Actions** menu, select **Add**.

Deleting agents in an existing agent group

To delete agents from an existing group in the Dictionary:

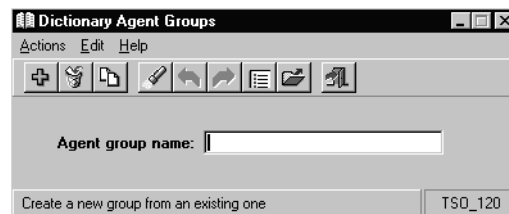
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Agent Groups**.
3. In the **ACD:** field, enter the ACD or ACD Group on which the agent group exists.
4. Select **OK**.

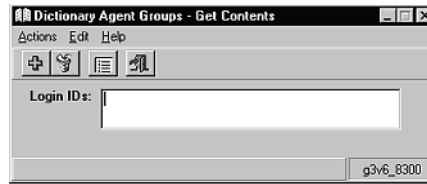
Supervisor displays the **Dictionary Agent Groups** window.



5. In the **Agent group name:** field, enter the name of the agent group from which agents will be deleted.

6. From the **Actions** menu, select **Get contents**.

Supervisor displays the **Agent Groups-Get Contents** window.



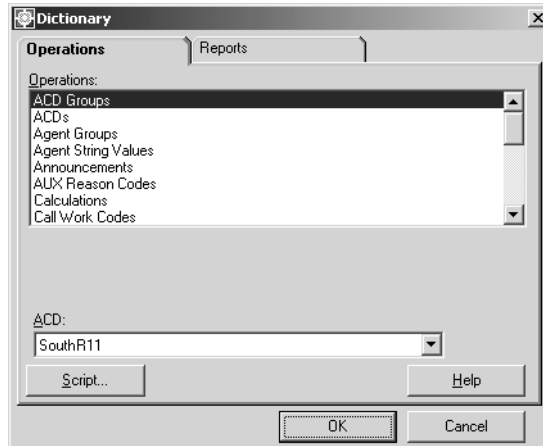
7. Enter the Login IDs to delete from this group.
8. From the **Actions** menu, select **Delete**.

Deleting an agent group

To delete an agent group from the Dictionary:

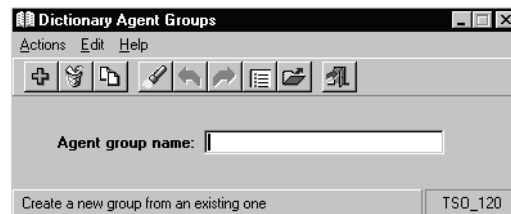
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Agent Groups**.
3. In the **ACD:** field, enter the ACD or ACD Group on which the agent group exists.
4. Select **OK**.

Supervisor displays the **Dictionary Agent Groups** window.



5. In the **Agent group name:** field, enter the name of the agent group to delete.
6. From the **Actions** menu, select **Delete**.

The selected agent group name is removed from the Dictionary.

Agent string values

Agent string values are the descriptive words in reports that correspond with agent states. These words, such as ACD, ACW, or AUX, describe the value of the data. Strings are changed to the values you administer when they are displayed as data in a report. The report heading is not affected.

Contents

This section contains the following topics:

- [Changing agent string value descriptions](#) on page 70
- [Agent string value field descriptions](#) on page 72

Permissions

Depending on the procedure that you want to perform, you will need the following permissions:

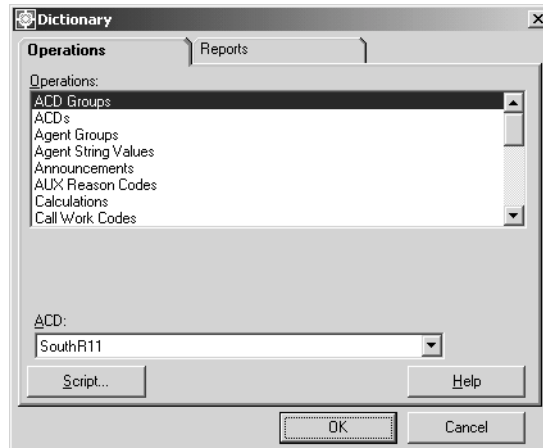
- To modify agent string values, you need *write* permissions for the Dictionary subsystem.
- To view agent string values, you need *read* permissions for the Dictionary subsystem.

Changing agent string value descriptions

To change agents string value descriptions in the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Agent String Values**.

3. In the **ACD:** field, select the ACD or ACD Group that you want to modify.

Supervisor displays the **Dictionary Agent String Values** window.

Dictionary Agent String Values

Actions Edit Help

Work Mode

ACD:

ACW:

AUX:

AVAIL:

DACD:

DACW:

OTHER:

RINGING:

UNKNOWN:

UNSTAFF:

Call Direction

IN:

OUT:

Call Origination

PHONE:

KEYBOARD:

Call Destination

PBX:

OFF:

Agent Trace Work Mode

LOGON:

LOGOFF:

Agent Role

TOP:

ALLOCATED:

BACKUP:

ROVING:

RESERVE:

Call Handling Preference

LEVEL:

NEED:

PERCENT:

Reserve Level

Rsv1:

Rsv2:

TSQ_120

4. Enter a new descriptive word in the field that you want to change. See [Agent string value field descriptions](#) on page 72 for field descriptions.

Agent string value field descriptions

Field description table

The following table describes the agent string values:

Field	Description
Work Mode	To change any of the work-mode default names, enter the new descriptive word in the appropriate work mode field. Agents can be in any one of the following work modes: ● ACD - The agent is on an ACD call. ● ACW - The agent is in the after-call work mode. ● AUX - The agent is in the auxiliary work mode. ● AVAIL - The agent is available to take an ACD call. ● DACD - The agent is on a direct agent ACD call. ● DACW - The agent is in the after-call work mode for a direct agent ACD call. ● OTHER - The agent has just logged in and <i>CMS</i> has not yet been notified of the agent's state, or the agent is dialing to place an extension call while in auto-in/manual-in (AI/MI), or the agent is in AI/MI and has an extension call ringing, or the agent has put a call on hold and has taken no further call-related action. ● RINGING - An ACD call is ringing at the agent's voice terminal and the agent is not doing anything else. ● UNKNOWN - <i>CMS</i> does not recognize the current state. ● UNSTAFF - The agent is not logged in (is not staffed).
Agent Trace Work Mode	To change the agent trace, work-mode default names, enter the new descriptive word next to LOGON or LOGOFF. ● LOGON - An agent is logged in. ● LOGOFF - An agent is logged out and is not available to take ACD calls.

Field	Description
Call Handling Preference	To change the call-handling preference default names, enter the new descriptive word next to LEVEL, NEED, or PERCENT. ● LEVEL - The agent's call-handling preference is by skill level. ● NEED - The agent's call-handling preference is by greatest need. ● PERCENT - The agent's call-handling preference is based on an assigned percentage of time allocated to each skill.
Reserve Level	To change the reserve-level default names, enter the new descriptive word next to Rsv1 or Rsv2. ● Rsv1 - The agent begins answering calls when the skill's 1st threshold is crossed. ● Rsv2 - The agent begins answering calls when the skill's second threshold is crossed.
Call Direction	To change the call-direction default names, enter the new descriptive word next to IN or OUT. ● IN - The agent is on an incoming call. ● OUT - The agent is on an outbound call.
Call Origination	To change the call-origination default names, enter the new descriptive word next to PHONE or KEYBOARD. Agents can be on either type of the following outbound calls: ● PHONE - The agent dialed an outbound call using the voice terminal dial pad. ● KEYBOARD - The agent dialed an outbound call using the computer keyboard.

Using the Dictionary to name contact center entities

Field	Description
Call Destination	To change the call-destination default names, enter the new descriptive word next to PBX or OFF. ● PBX - Internal to the switch. ● OFF - External to the switch.
Agent Role	To change the agent role default names, enter the new descriptive word next to TOP, ALLOCATED, BACKUP, ROVING, or RESERVE. ● TOP - The agent can be counted on to answer the skill's calls (unless an agent's other skills go into overload). ● ALLOCATED - The agent has a percentage of his/her time allocated to answering the skill's calls. ● BACKUP - The agent helps to answer the skill's calls when his/her top skill is not busy. ● ROVING - The agent answers a skill's calls when this skill has the greatest need. ● RESERVE - The agent helps answer the skill's calls when the skill is over threshold. These roles vary according to call-handling preference.

Announcement names

This section provides information on working with announcement names in the Dictionary. Announcements are recorded messages that are played for callers. Announcement names are synonyms assigned to these recorded messages in the Dictionary.

Contents

This section contains the following topics:

- [Adding an announcement name](#) on page 76
- [Viewing an announcement name](#) on page 77
- [Listing all announcement names for an ACD](#) on page 78
- [Modifying an announcement name](#) on page 79
- [Deleting an announcement name](#) on page 80

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view announcement names, you need *read* permissions for the Dictionary subsystem.
- To add, delete, or modify announcement names, you need *write* permissions for the Dictionary subsystem.

Before you begin

The following items should be read and understood before working with announcement names in the Dictionary:

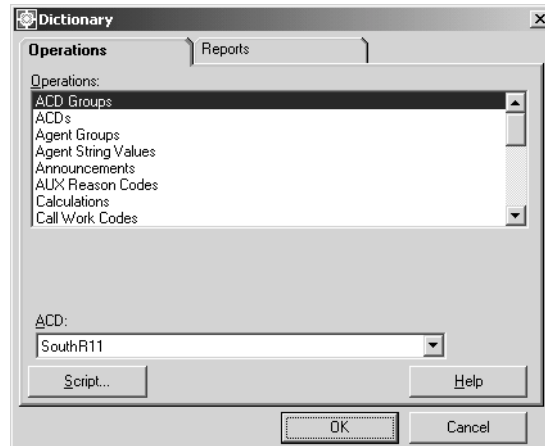
- Announcement names must be unique.
- Multiple values are not allowed for announcement names or numbers.

Adding an announcement name

To add a name for an announcement to the Dictionary:

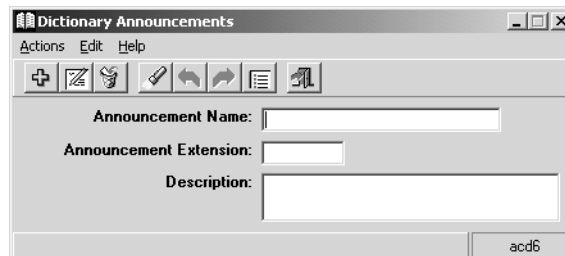
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Announcements**.
3. In the **ACD:** field, enter the ACD on which the announcement resides.
4. Select **OK**.

Supervisor displays the **Dictionary Announcements** window.



5. In the **Announcement Name:** field, enter the name that you want to assign to the announcement.
6. In the **Announcement Number:** field, enter a number that will correspond with the announcement name.

Any additional information about the announcement can be entered in the **Description:** field. Only 50 or fewer characters can be entered in this field.

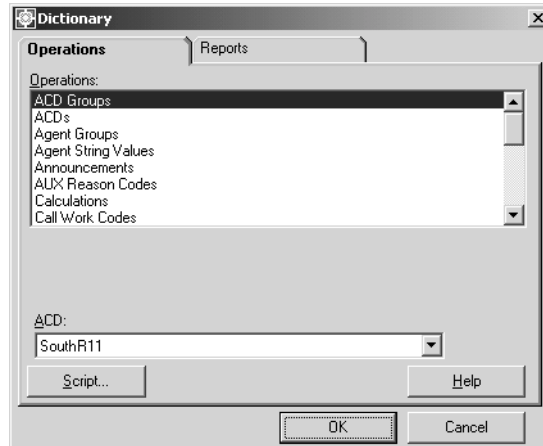
7. From the **Action** menu, select **Add**.

Viewing an announcement name

To view an announcement name in the Dictionary:

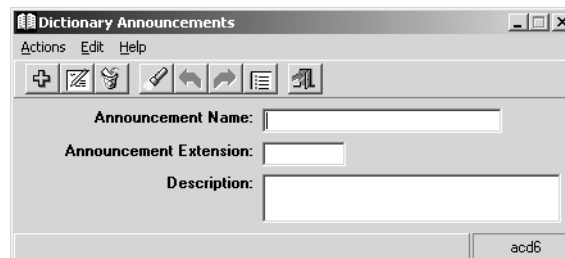
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Announcements**.
3. In the **ACD:** field, enter the ACD on which the announcement resides.
4. Select **OK**.

Supervisor displays the **Dictionary Announcements** window.



5. To find an announcement name to view, only one of the fields requires an announcement to be specified. Perform one of the following actions to specify an existing announcement in the Dictionary:
 - In the **Announcement Name:** field, enter the synonym name of the announcement.
 - In the **Announcement Number:** field, enter the number of the announcement.
6. From the **Action** menu, select **Find One**.

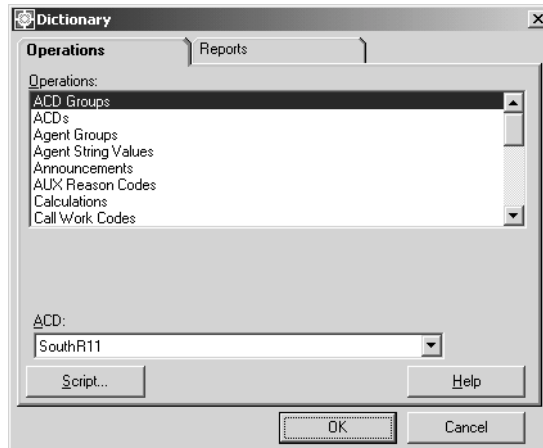
Supervisor retrieves and displays the data for the specified announcement, if valid.

Listing all announcement names for an ACD

To list all announcement names that are defined in the Dictionary for an ACD:

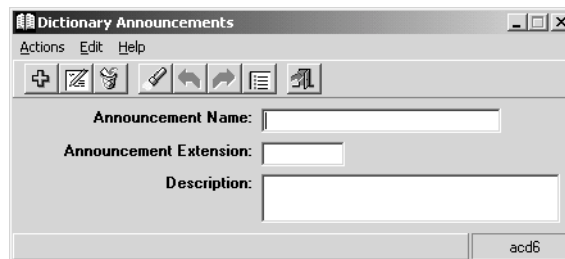
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Announcements**.
3. In the **ACD:** field, enter the ACD on which the announcement resides.
4. Select **OK**.

Supervisor displays the **Dictionary Announcements** window.



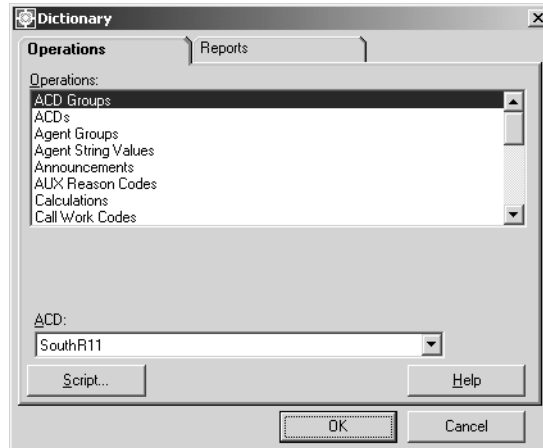
5. From the **Action** menu, select **List All**.

Modifying an announcement name

To modify an announcement name in the Dictionary:

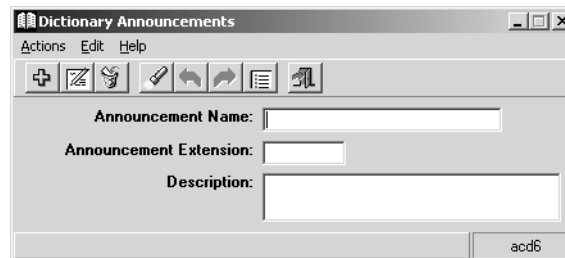
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Announcements**.
3. In the **ACD:** field, enter the ACD on which the announcement resides.
4. Select **OK**.

Supervisor displays the **Dictionary Announcements** window.



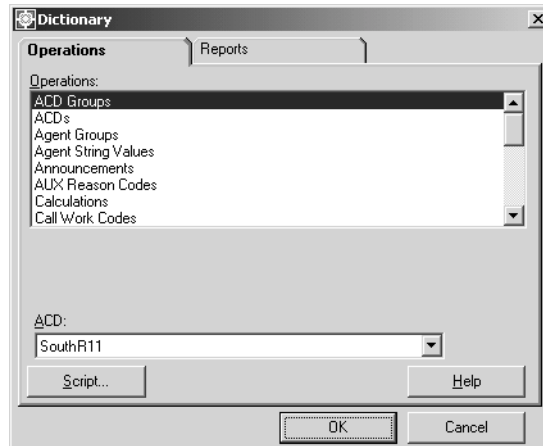
5. To find an announcement name to modify, only one of the fields requires an announcement to be specified so that it can be found. Perform one of the following actions to specify an existing announcement in the Dictionary:
 - In the **Announcement Name:** field, enter the name of the announcement.
 - In the **Announcement Number:** field, enter the number of the announcement.
6. From the **Action** menu, select **Find One**.
Supervisor retrieves and displays the data for the specified announcement, if valid.
7. In the **Announcement Name:** field, enter the new announcement name.
8. From the **Action** menu, select **Modify**.

Deleting an announcement name

To delete an announcement name in the Dictionary:

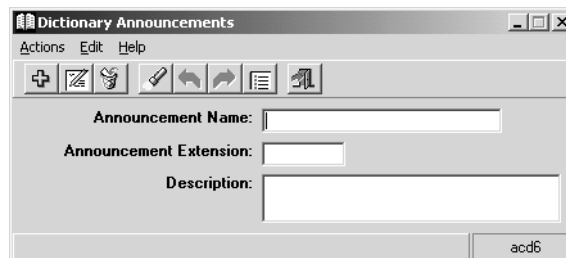
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Announcements**.
3. In the **ACD:** field, enter the ACD on which the announcement resides.
4. Select **OK**.

Supervisor displays the **Dictionary Announcements** window.



5. To find an announcement name to delete, only one of the fields requires an announcement to be specified so that it can be found in the Dictionary. Perform one of the following actions to specify an existing announcement in the Dictionary:
 - In the **Announcement Name:** field, enter the name of the announcement.
 - In the **Announcement Number:** field, enter the number of the announcement.
6. From the **Action** menu, select **Find One**.

Supervisor retrieves and displays the data for the specified announcement, if valid.
7. From the **Action** menu, select **Delete**.

AUX reason code names

This section provides information on working with AUX reason code names in the Dictionary. AUX reason codes enable a contact center to track an agent's time more precisely when the agent is in the AUX work mode. The agent can specify exactly why the AUX state is used, such as for lunch or meetings. You can view, add, delete, or change AUX reason code names by selecting **AUX Reason Codes** from the **Dictionary** menu.

Complete the **AUX Reason Codes** window if you want names associated with your AUX reason codes to appear in the AUX Reasons Code standard real-time and historical reports.

Contents

This section contains the following topics:

- [Adding an AUX reason code name](#) on page 83
- [Viewing an AUX reason code name](#) on page 84
- [Listing all AUX reason code names](#) on page 85
- [Modifying an AUX reason code name](#) on page 86
- [Deleting an AUX reason code](#) on page 88

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view AUX reason codes, you need *read* permissions for the Dictionary subsystem.
- To add, delete, or modify AUX reason codes, you need *write* permissions for the Dictionary subsystem.

Before you begin

The following items should be read and understood before working with AUX reason code names in the Dictionary:

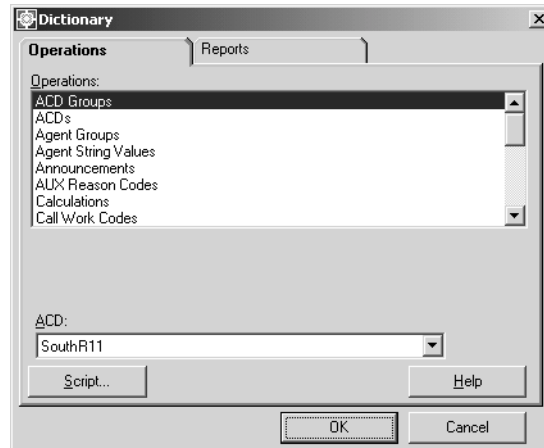
- To use AUX reason codes, your switch must have EAS.
- AUX reason codes are single digits, 0 through 9.
- AUX reason code names can be up to 20 characters long.
- AUX reason code 0 is used for cases in which the switch automatically puts an agent into AUX work mode. You can change this name.
- Names must be unique within an ACD. No two AUX reason codes in the same ACD can have the same name.
- If you make changes to the AUX reason code names you must restart any report that uses AUX reason codes to see the changes.

Adding an AUX reason code name

To add a name in the Dictionary for an AUX reason code:

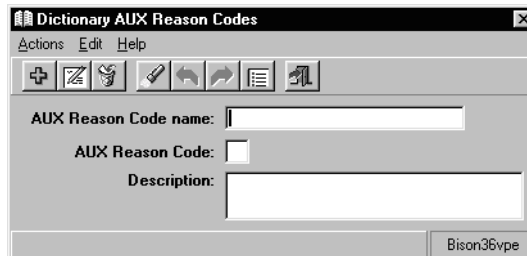
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **AUX Reason Codes**.
3. In the **ACD:** field, enter the ACD or ACD Group on which the AUX Reason Codes reside.
4. Select **OK**.

*Supervisor displays the **Dictionary AUX Reason Codes** window.*



5. In the **AUX Reason Code name:** field, enter the name for the AUX reason code.
6. In the **AUX Reason Code:** field, enter the one-digit AUX reason code number, between 0 and 9.

Any additional information about the AUX reason code can be entered in the **Description:** field. Only 50 or fewer characters can be entered in this field.

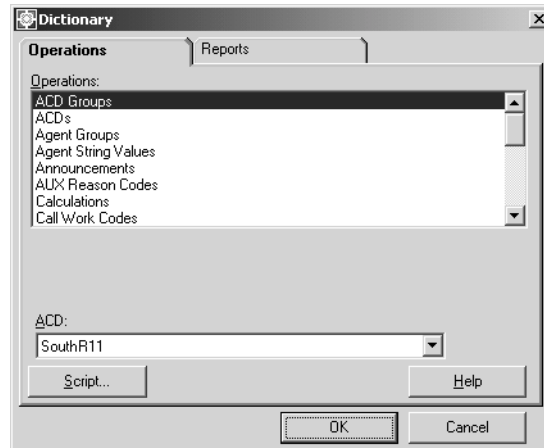
7. From the **Action** menu, select **Add**.

Viewing an AUX reason code name

To view the name of an AUX reason code in the Dictionary:

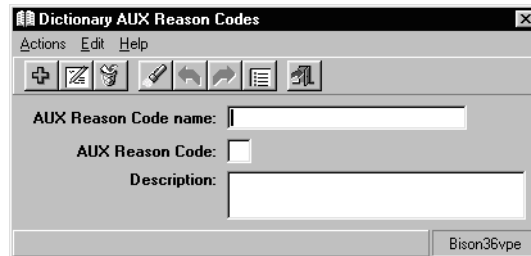
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **AUX Reason Codes**.
3. In the **ACD:** field, enter the ACD or ACD Group on which the AUX Reason Codes reside.
4. Select **OK**.

Supervisor displays the **Dictionary AUX Reason Codes** window.



5. To find an AUX reason code name to view, only one of the fields requires an AUX reason code to be specified. Perform one of the following actions to specify an existing AUX reason code in the Dictionary:
 - In the **AUX Reason Code name:** field, enter the name for the AUX reason code.
 - In the **AUX Reason Code:** field, enter the one-digit AUX reason code number, between 0 and 9.
6. From the **Actions** menu, select **Find One**.

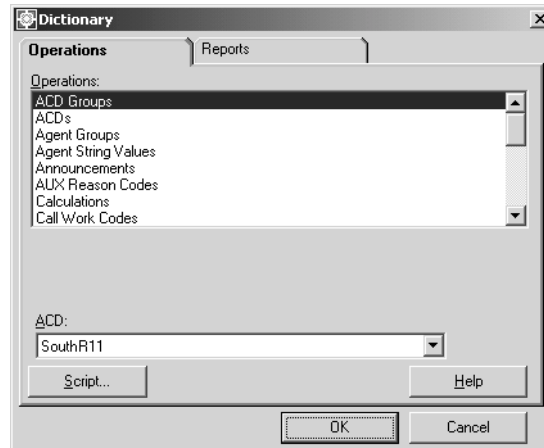
Supervisor retrieves and displays the information for the specified AUX reason code, if valid.

Listing all AUX reason code names

To list all AUX reason code names in the Dictionary for an ACD:

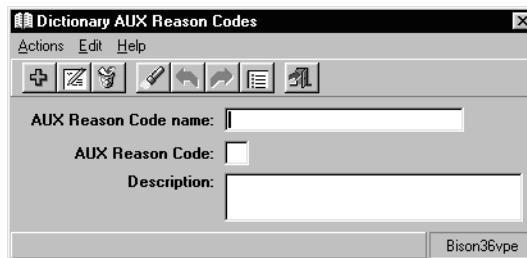
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the Dictionary window.



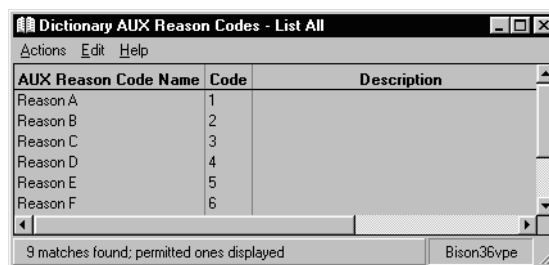
2. In the **Operations:** list, highlight **AUX Reason Codes**.
3. In the **ACD:** field, enter the ACD or ACD Group on which the AUX Reason Codes reside.
4. Select **OK**.

Supervisor displays the Dictionary AUX Reason Codes window.



5. From the **Actions** menu, select **List All**.

Supervisor displays the Dictionary AUX Reason Codes – List All window.

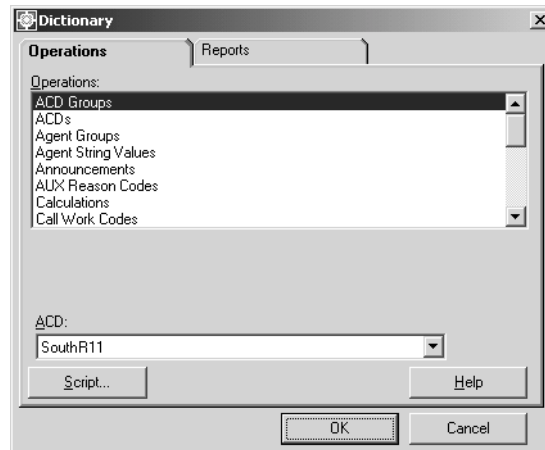


Modifying an AUX reason code name

To modify an AUX reason code name in the Dictionary:

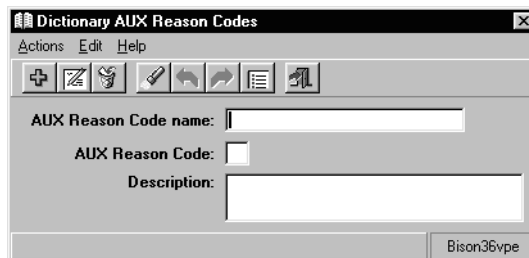
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **AUX Reason Codes**.
3. In the **ACD:** field, enter the ACD or ACD Group on which the AUX reason codes reside.
4. Select **OK**.

Supervisor displays the **Dictionary AUX Reason Codes** window.



5. To find an AUX reason code name to modify, only one of the fields requires an AUX reason code name to be specified. Perform one of the following actions to specify an existing AUX reason code name in the Dictionary:
 - In the **AUX Reason Code name:** field, enter the name for the AUX reason code.
 - In the **AUX Reason Code:** field, enter the one-digit AUX reason code number, between 0 and 9.

6. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified AUX reason code, if valid.

7. In the **AUX Reason Code name:** field, enter the new name for the AUX reason code.

8. From the **Actions** menu, select **Modify**.

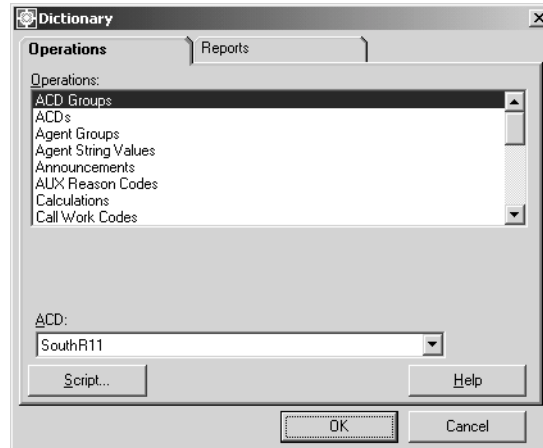
Supervisor updates the name for the AUX reason code in the database.

Deleting an AUX reason code

To delete an AUX reason code name from the Dictionary:

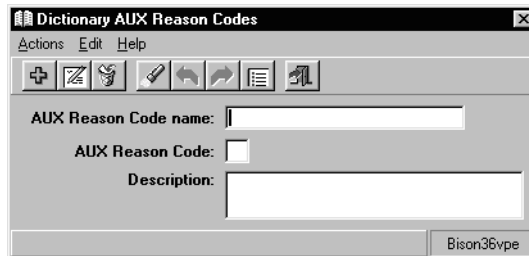
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **AUX Reason Codes**.
3. In the **ACD:** field, enter the ACD or ACD Group on which the AUX reason codes reside.
4. Select **OK**.

Supervisor displays the **Dictionary AUX Reason Codes** window.



5. To find an AUX reason code name to delete, only one of the fields requires an AUX reason code to be specified. Perform one of the following actions to specify an existing AUX reason code in the Dictionary:
 - In the **AUX Reason Code name:** field, enter the name for the AUX reason code.
 - In the **AUX Reason Code:** field, enter the one-digit AUX reason code number, between 0 and 9.

6. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified AUX reason code, if valid.

7. From the **Actions** menu, select **Delete**.

Supervisor removes the specified AUX reason code from the Dictionary.

Using the Dictionary to name contact center entities

Calculations

Calculation names are abbreviated names for the calculations in the database that are used to create reports. You can view standard calculations or create your own custom calculations to use in custom reports. The names for calculations used in standard reports already exist in the Dictionary.

Contents

This section contains the following topics:

- [Viewing a calculation](#) on page 93
- [Listing all calculations](#) on page 94
- [Adding a calculation](#) on page 95
- [Modifying a custom calculation](#) on page 97
- [Deleting a custom calculation](#) on page 98

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view calculations, you need *read* permissions for the Dictionary subsystem.
- To create, delete or modify a custom calculation, you need *write* permissions for the Dictionary subsystem.

Before you begin

The following items should be read and understood before changing calculations in the Dictionary:

- Calculations must be one word with no blanks.
- Reports will not run if you embed calculations more than three levels deep.
- Standard calculations cannot be deleted.

The standard CMS calculations are listed in the following documents:

- *Avaya CMS Database Items and Calculations*
- *Avaya CMS Supervisor Report Designer User Guide*
- *Avaya CMS Supervisor Reports*
- *Avaya CMS Custom Reports*

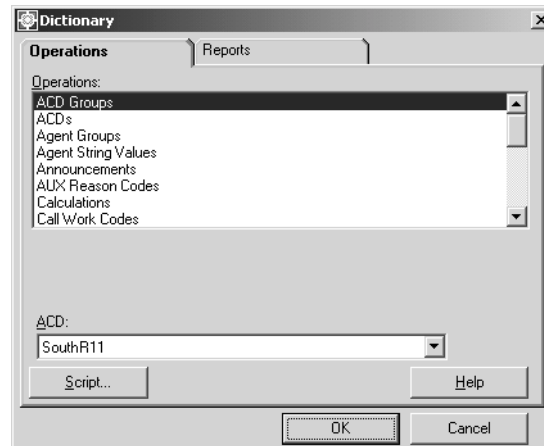
- It is recommended that you identify your own calculations in all lowercase letters to distinguish them from the standard CMS calculations, which are in all uppercase letters.
- If you delete a custom calculation from the Dictionary, any reports that it appeared in will not run.
- You can adversely affect standard reports if you change a standard CMS calculation. Reports will probably run, but the results may be different from those expected.
- Reports will not run if you create calculations that reference each other in a circular fashion. For example, assume that CALC_1 uses CALC_2 in its processing. If CALC_2 then uses CALC_1 in its processing, this creates a circular pattern where processing cannot be completed.

Viewing a calculation

To view a calculation in the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

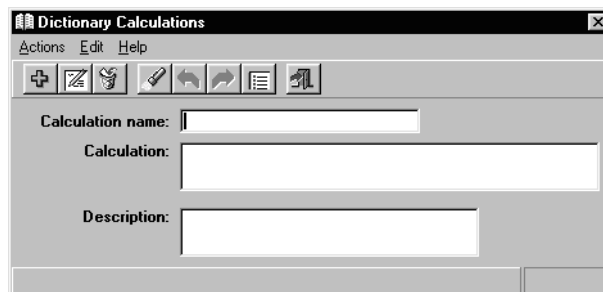
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Calculations**.

3. Select **OK**.

Supervisor displays the **Dictionary Calculations** window.



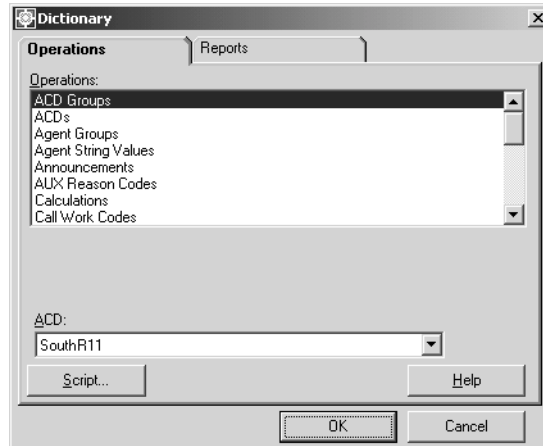
4. To find a calculation to view, only one of the fields requires a calculation to be specified. Perform one of the following actions to specify an existing database calculation in the Dictionary:
 - If you know the name of the calculation, enter it in the **Calculation name:** field.
 - If you do not know the name of the calculation, perform the following steps to view all the calculations alphabetically:
 - i. Leave all the fields in the **Dictionary Calculations** window blank, and from the **Actions** menu, select **Find One**.
 - ii. Use the **Next** or **Previous** buttons to move through the list of existing calculations.

Listing all calculations

To list all calculations in the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

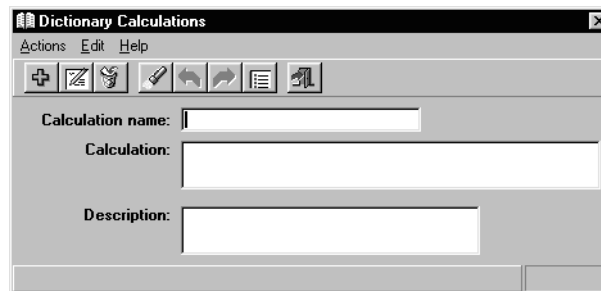
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Calculations**.

3. Select **OK**.

Supervisor displays the **Dictionary Calculations** window.



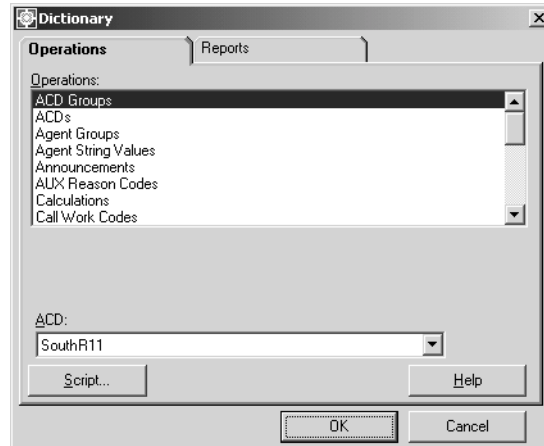
4. From the **Actions** menu, select **List All**.

Adding a calculation

To add a calculation in the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

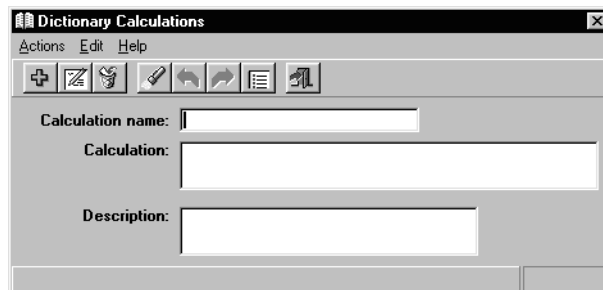
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Calculations**.

3. Select **OK**.

Supervisor displays the **Dictionary Calculations** window.



4. Enter the name of the calculation in the **Calculation name:** field.

! Important:

Use lowercase letters in the name to distinguish this custom calculations from a standard CMS calculation.

Using the Dictionary to name contact center entities

5. In the **Calculation:** field, enter the formula for the calculation.

Formulas can include:

- Database items
- Constants
- Calculations (the maximum nesting level is 3)
- The following arithmetic operators:
 - + (add)
 - – (subtract)
 - * (multiply)
 - / (divide)
 - () (do first, as in standard mathematical operations)

Any additional information about the calculation can be entered in the **Description:** field. Only 50 or fewer characters can be entered in this field.

6. From the **Actions** menu, select **Add**.

The custom calculation is added to the Dictionary.

Modifying a custom calculation

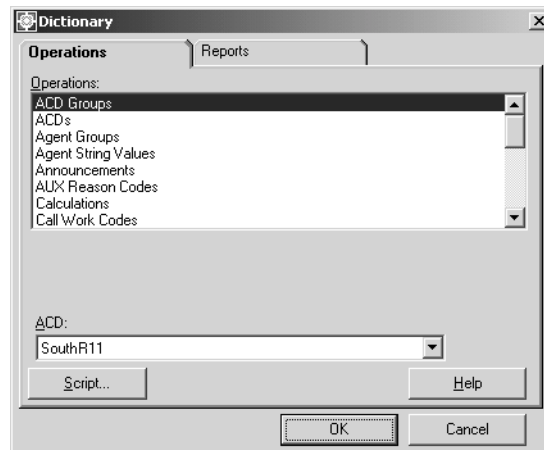
! Important:

Modifying a standard *CMS* calculation is not recommended. If you modify a standard *CMS* calculation, the meaning of that calculation is changed in every report in which it appears.

To modify a custom calculation:

1. From the Controller Window, select **Commands > Dictionary**.

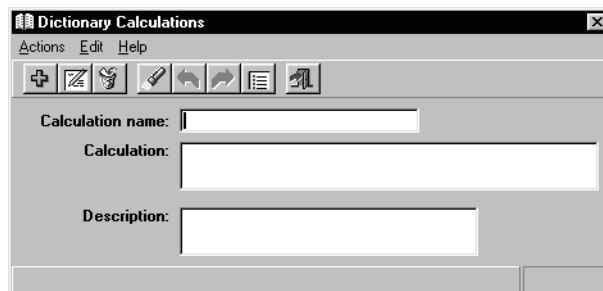
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Calculations**.

3. Select **OK**.

Supervisor displays the **Dictionary Calculations** window.



4. Enter the name of the custom calculation in the **Calculation name:** field.

5. From the **Actions** menu, select **Find One**.

6. In the **Calculation:** field, enter the new formula.

Any changes to the descriptive information, can be entered in the **Description:** field.

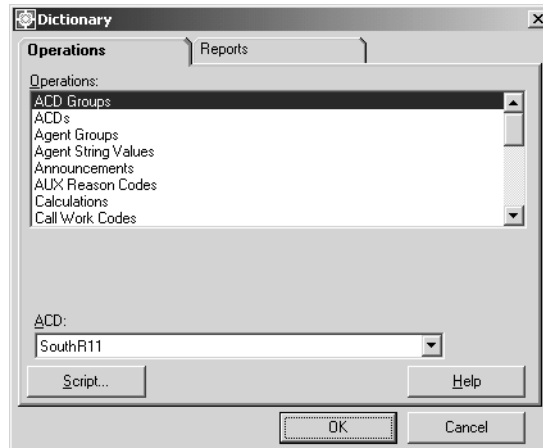
7. From the **Actions** menu, select **Modify**.

Deleting a custom calculation

To delete a custom calculation:

1. From the Controller Window, select **Commands > Dictionary**.

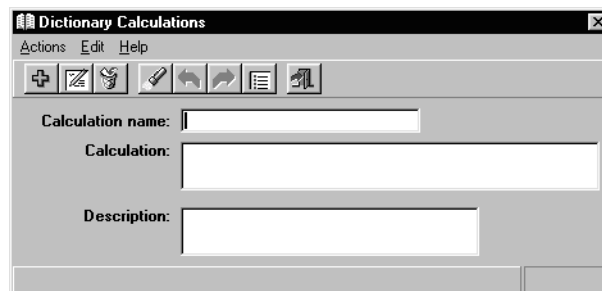
*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **Calculations**.

3. Select **OK**.

*Supervisor displays the **Dictionary Calculations** window.*



4. Enter the name of the custom calculation in the **Calculation name:** field.

5. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified calculation, if valid.

6. From the **Actions** menu, select **Delete**.

The specified calculation is removed from the Dictionary.

Call work codes

Call work codes are numeric sequences that are entered by agents to categorize the type of call that they have just received or are currently handling. By entering call work codes, agents can assign one of many defined categories to the calls which can be later viewed in detail through reports. The call work codes are defined in the Dictionary and can be used to represent any type of call in which there is an interest in tracking, such as complaints, special sales, promotional events, and so forth. Up to five call work codes can be assigned to each call. You can view, add, delete, or modify call work codes and their names from the **Call Work Codes** window. These names then appear in the standard Call Work Code historical report.

Contents

This section contains the following topics:

- [Adding a name to a call work code](#) on page 101
- [Viewing a call work code name](#) on page 102
- [Listing all call work code names](#) on page 103
- [Modifying a call work code name](#) on page 104
- [Deleting a call work code name](#) on page 106

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view call work code names, you need *read* permissions for the Dictionary subsystem.
- To add, delete or modify call work code names, you need *write* permissions for the Dictionary subsystem.

Before you begin

The following items should be read and understood before changing call work codes in the Dictionary:

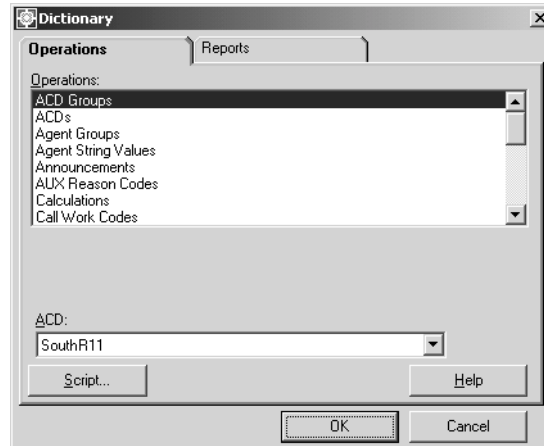
- Call work codes must be activated on the ACD before the administration and naming of them can be performed.
- Call work codes require storage space on the CMS file system. The number of call work codes available on a system must be configured through the **Data Storage Allocation** window. See [Chapter 10: Configuring CMS system settings](#) for more information.
- **Call Work Code 0** is reserved for unadministered work codes so that summary data can be collected. The default name for **Call Work Code 0** is **Unadministered codes**, but this name can be modified.
- Even though call work codes can be up to 16 digits in length, a Dictionary name can only be assigned to a call work code that is 9 digits in length.

Adding a name to a call work code

To add a name to a call work code:

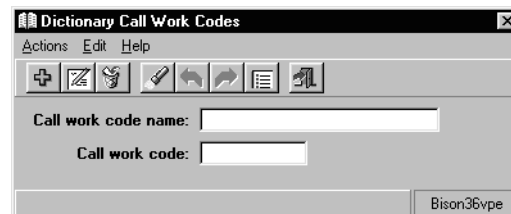
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **Call Work Codes**.
3. In the **ACD:** field, enter the ACD on which the call work code resides.
4. Select **OK**.

*Supervisor displays the **Dictionary Call Work Codes** window.*



5. In the **Call work code name:** field, enter the name of the of the new call work code.
6. In the **Call work code:** field, enter the number of the of the new call work code.
7. From the **Actions** menu, select **Add**.

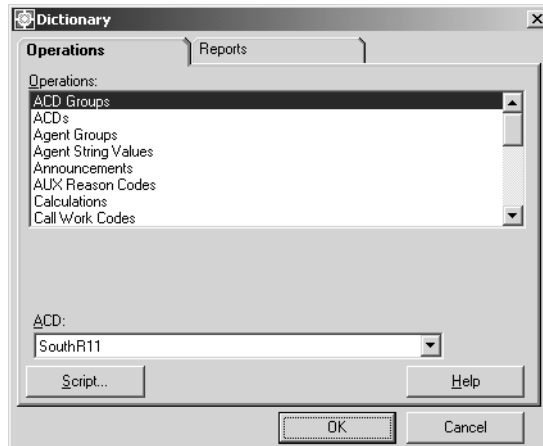
The specified call work code and its associated name is added to the Dictionary.

Viewing a call work code name

To view the name assigned to a call work code in the Dictionary:

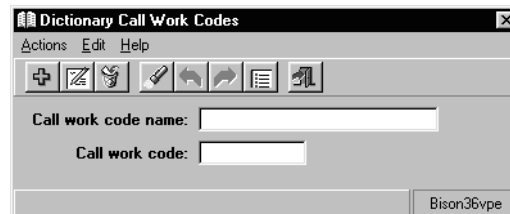
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Call Work Codes**.
3. In the **ACD:** field, enter the ACD on which the call work code resides.
4. Select **OK**.

Supervisor displays the **Dictionary Call Work Codes** window.



5. To find a call work code name to view, only one of the fields requires a call work code to be specified. Perform one of the following actions to specify an existing call work code in the Dictionary:
 - In the **Call work code name:** field, enter the name of the call work code.
 - In the **Call work code:** field, enter the number of the of the call work code.
6. From the **Actions** menu, select **Find One**.

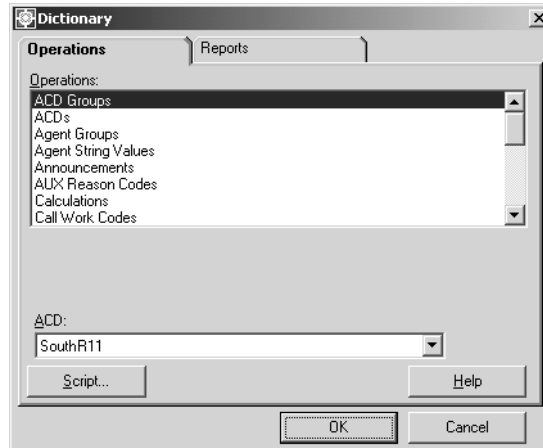
Supervisor retrieves and displays the information for the specified call work code, if valid.

Listing all call work code names

To list all call work code names in the Dictionary:

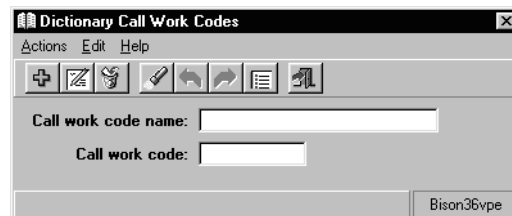
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Call Work Codes**.
3. In the **ACD:** field, enter the ACD on which the call work codes reside.
4. Select **OK**.

Supervisor displays the **Dictionary Call Work Codes** window.



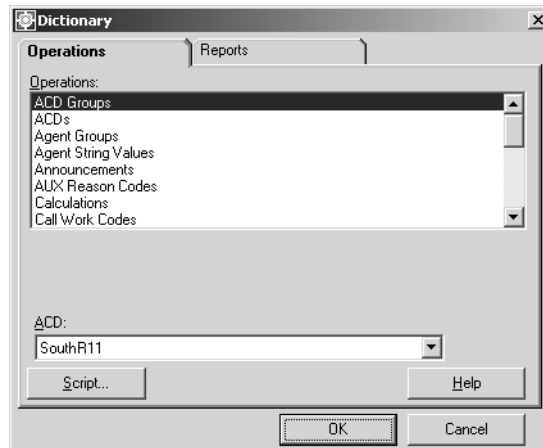
5. From the **Actions** menu, select **List All**.

Modifying a call work code name

To modify a call work code name in the Dictionary:

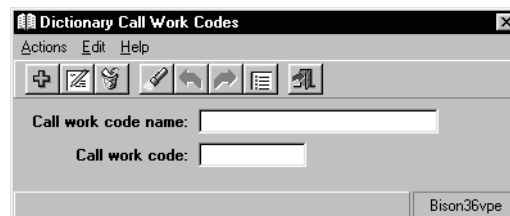
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Call Work Codes**.
3. In the **ACD:** field, enter the ACD on which the call work code resides.
4. Select **OK**.

Supervisor displays the **Dictionary Call Work Codes** window.



5. To find a call work code name to modify, only one of the fields requires a call work code to be specified. Perform one of the following actions to specify an existing call work code in the Dictionary:
 - In the **Call work code name:** field, enter the name of the of the call work code.
 - In the **Call work code:** field, enter the number of the of the call work code.
6. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified call work code, if valid.

7. In the **Call work code name:** field, enter the new name for the of the call work code.
8. From the **Actions** menu, select **Modify**.

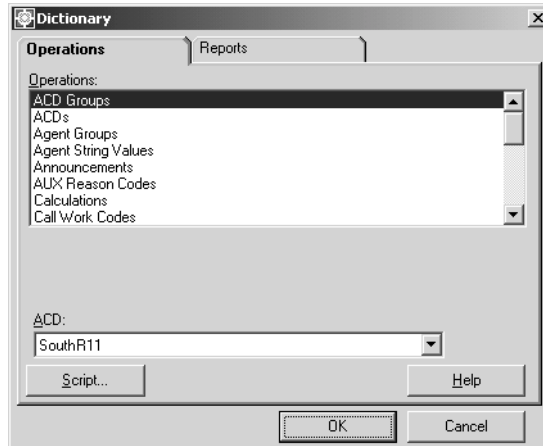
The specified call work code entry is modified in the Dictionary.

Deleting a call work code name

To delete the name of a call work code in the Dictionary:

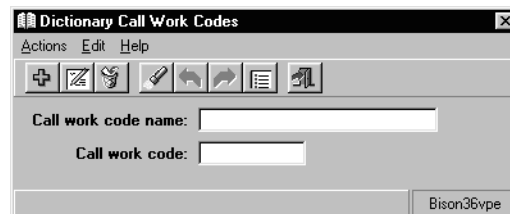
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Call Work Codes**.
3. In the **ACD:** field, enter the ACD on which the call work code resides.
4. Select **OK**.

Supervisor displays the **Dictionary Call Work Codes** window.



5. To find a call work code name to delete, only one of the fields requires a call work code to be specified. Perform one of the following actions to specify an existing call work code in the Dictionary:

- In the **Call work code name:** field, enter the name of the of the call work code.
- In the **Call work code:** field, enter the number of the of the call work code.

6. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified call work code, if valid.

7. From the **Actions** menu, select **Delete**.

The specified call work code is removed from the Dictionary.

Constants

Constants are items with fixed numerical values that you can enter into the Dictionary for use only in custom and designer reports. Constants do not exist in *CMS* when it is installed.

Contents

This section contains the following topics:

- [Adding a constant](#) on page 108
- [Viewing a constant](#) on page 109
- [Listing all constants](#) on page 110
- [Modifying a constant](#) on page 111
- [Deleting a constant](#) on page 112

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

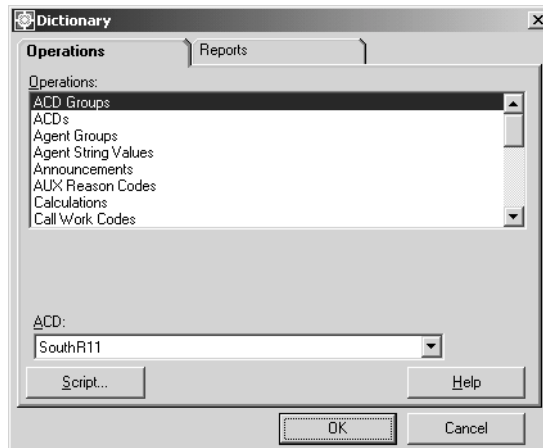
- To view a constant, you need *read* permissions for the Dictionary subsystem.
- To add, delete or modify a constant, you need *write* permissions for the Dictionary subsystem.

Adding a constant

To add a constant to the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

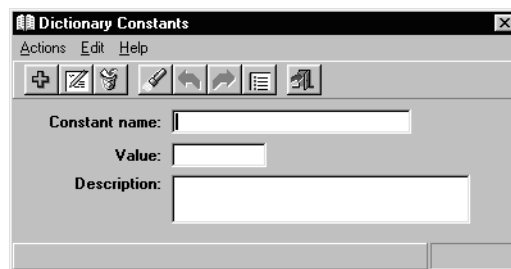
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Constants**.

3. Select **OK**.

Supervisor displays the **Dictionary Constants** window.



4. In the **Constant name:** field, enter the name of the new constant.

5. In the **Value:** field, enter the numerical value of the constant. The value can range from –99999 to 999999.

Any additional information about the constant can be entered in the **Description:** field. Only 50 or fewer characters can be entered in this field.

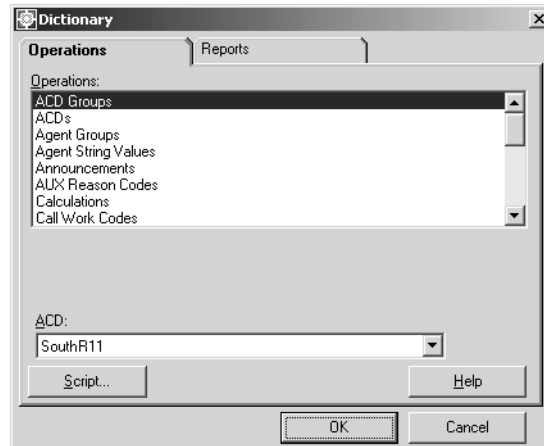
6. From the **Actions** menu, select **Add**.

Viewing a constant

To view a constant in the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

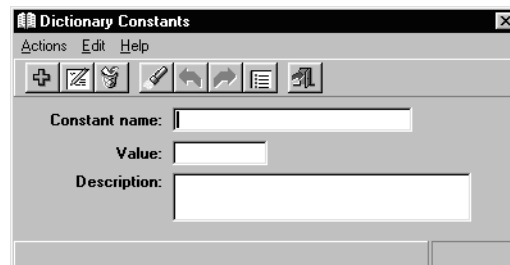
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Constants**.

3. Select **OK**.

Supervisor displays the **Dictionary Constants** window.



4. To find a constant to view, only one of the fields requires an entry to be specified. Perform one of the following actions to specify an existing constant in the Dictionary:

- In the **Constant name:** field, enter the name of the constant.
- In the **Value:** field, enter the numerical value of the constant.

5. From the **Actions** menu, select **Find One**.

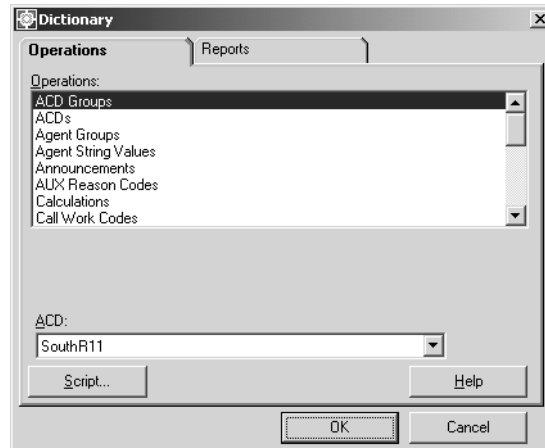
Supervisor retrieves and displays the information for the specified constant, if valid.

Listing all constants

To list all constants defined in the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

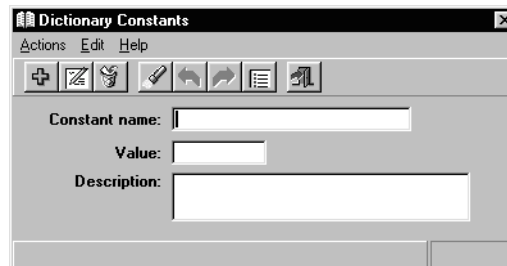
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Constants**.

3. Select **OK**.

Supervisor displays the **Dictionary Constants** window.



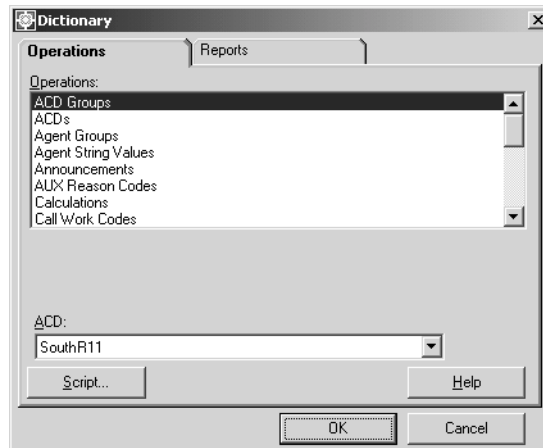
4. From the **Actions** menu, select **List All**.

Modifying a constant

To modify a constant that is defined in the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

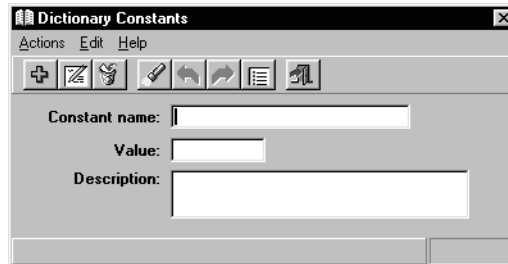
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Constants**.

3. Select **OK**.

Supervisor displays the **Dictionary Constants** window.



4. To find a constant to modify, only one of the fields requires an entry to be specified. Perform one of the following actions to specify an existing constant in the Dictionary:

- In the **Constant name:** field, enter the name of the constant.
- In the **Value:** field, enter the numerical value of the constant.

5. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified constant, if valid.

6. In the **Value:** field, enter the new numerical value for the constant.

Note:

You cannot modify the name of the new constant. If you want to change the name, you must delete the old constant and add a new one.

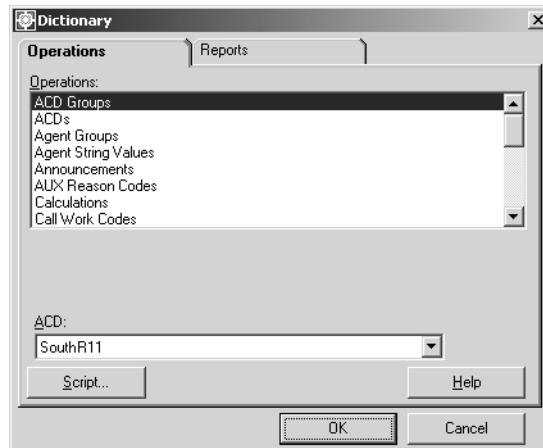
7. From the **Actions** menu, select **Modify**.

Deleting a constant

To delete a constant from the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

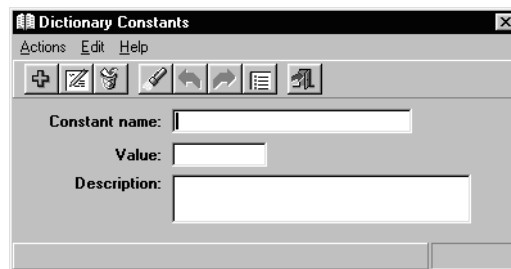
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Constants**.

3. Select **OK**.

Supervisor displays the **Dictionary Constants** window.



4. To find a constant to delete, only one of the fields requires an entry to be specified. Perform one of the following actions to specify an existing constant in the Dictionary:

- In the **Constant name:** field, enter the name of the constant.
- In the **Value:** field, enter the numerical value of the constant.

5. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified constant, if valid.

6. From the **Actions** menu, select **Delete**.

The specified constant is removed from the Dictionary.

Custom database items

You can define your own custom database items, which are stored in the *CMS* database. The custom database items are entered from the **Dictionary Custom Items** window, and allow you to combine your own data with the *CMS* data on custom or designer reports. You can also modify or delete custom database items.

Contents

This section contains the following topics:

- [Adding a custom database item](#) on page 114
- [Viewing a custom database item](#) on page 115
- [Listing all custom database items](#) on page 116
- [Modifying a custom database item](#) on page 117
- [Deleting a custom database item](#) on page 118

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view a custom database item, you need *read* permissions for the Dictionary subsystem.
- To add, delete, or modify a custom database item, you need *write* permissions for the Dictionary subsystem.

Before you begin

The following items should be read and understood before working with custom database items in the Dictionary:

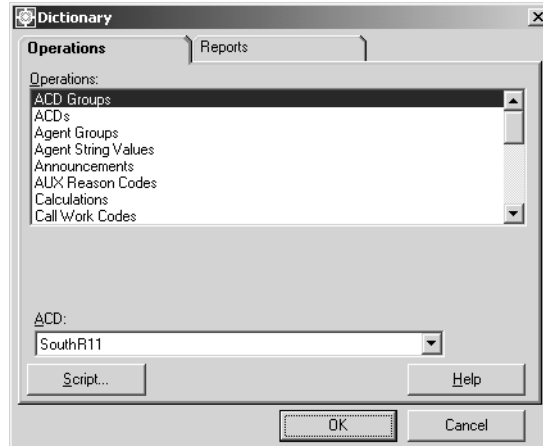
- You must first create the table in the database before you create a custom database item.

Adding a custom database item

To create a custom database item in the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

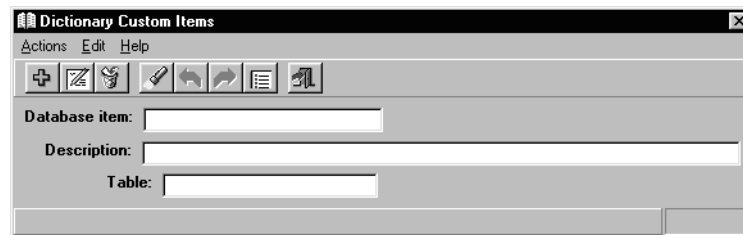
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Custom Items**.

3. Select **OK**.

Supervisor displays the **Dictionary Custom Items** window.



4. In the **Database item:** field, enter the name of the new database item.

Any additional information about the custom database item can be entered in the **Description:** field. Only 50 or fewer characters can be entered in this field.

5. In the **Table:** field, enter the name of the table that will contain the new custom database item.

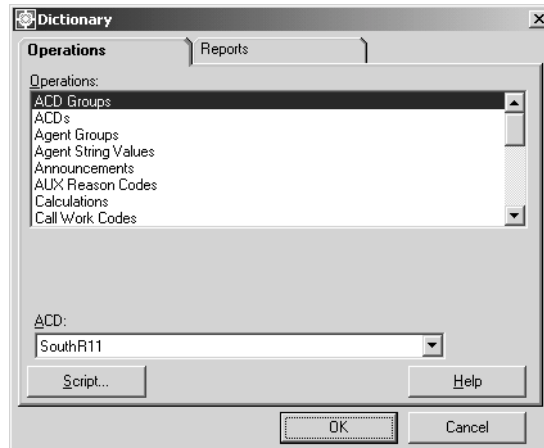
6. From the **Actions** menu, select **Add**.

Viewing a custom database item

To view a custom database item in the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

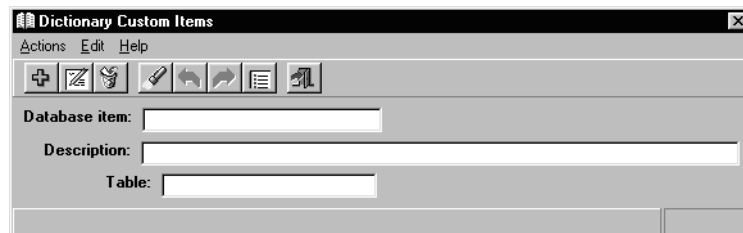
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Custom Items**.

3. Select **OK**.

Supervisor displays the **Dictionary Custom Items** window.



4. In the **Database item:** field, enter the name of the custom database item.

5. From the **Actions** menu, select **Find One**.

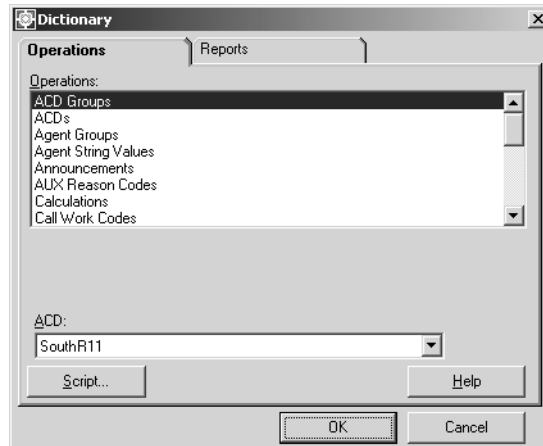
Supervisor retrieves and displays the information for the specified custom database item, if valid.

Listing all custom database items

To list all custom database items in the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

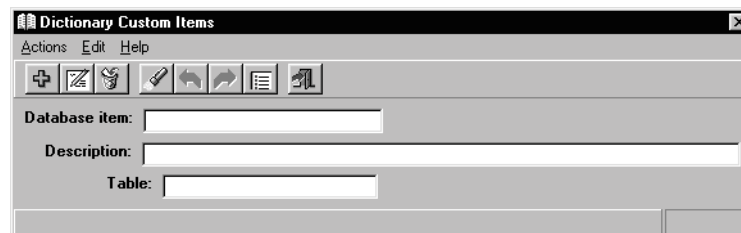
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Custom Items**.

3. Select **OK**.

Supervisor displays the **Dictionary Custom Items** window.



4. In the **Database item:** field, enter the name of the custom database item.

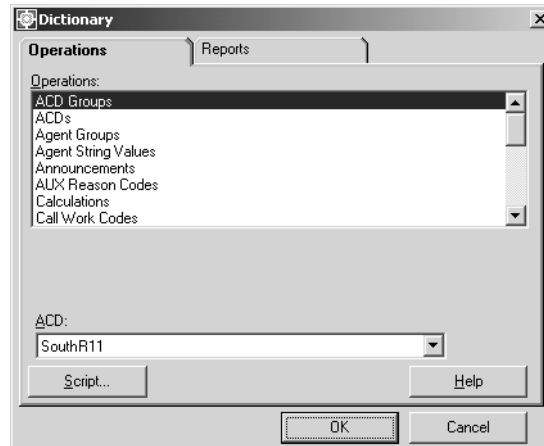
5. From the **Actions** menu, select **List All**.

Modifying a custom database item

To modify an existing custom database item in the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

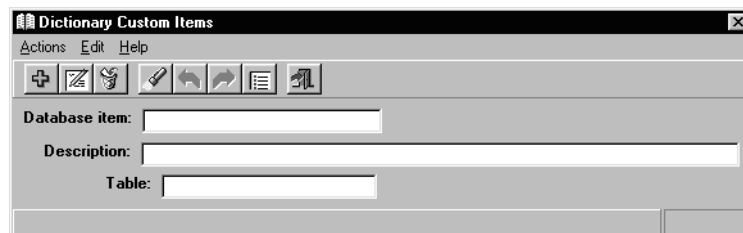
*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **Custom Items**.

3. Select **OK**.

*Supervisor displays the **Dictionary Custom Items** window.*



4. In the **Database item:** field, enter the new name for the custom database item.
5. In the **Table:** and **Description:** fields, enter the new information for the custom database item. Only 50 or fewer characters can be entered in the **Description:** field.

Note:

Note: You cannot modify the name of a custom database item. You must delete the old item and add the new item if you want a different name.

6. From the **Actions** menu, select **Modify**.

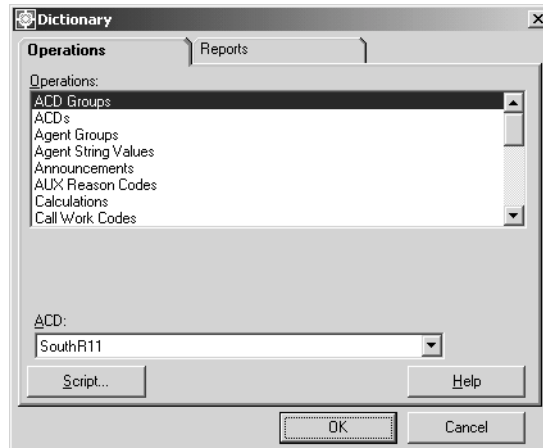
The specified custom database item and its changes are saved to the Dictionary.

Deleting a custom database item

To delete a custom database item from the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

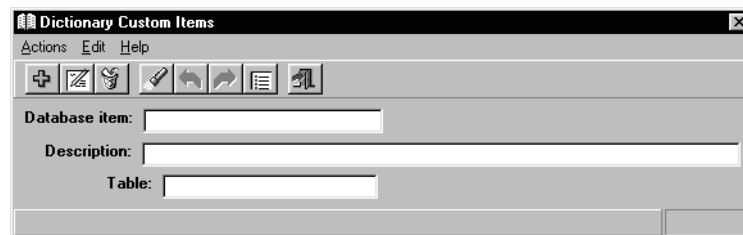
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Custom Items**.

3. Select **OK**.

Supervisor displays the **Dictionary Custom Items** window.



4. In the **Database item:** field, enter the name of the database item to delete.

5. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified custom database item, if valid.

6. From the **Actions** menu, select **Delete**.

The specified custom database item is removed from the Dictionary.

Generic string values synonyms

Modifying generic string values allows you to enter a replacement string for the default **y** for YES and **n** for NO values. The string values can be up to six characters in length. These modified string values appear in custom or designer reports that use the YES or NO synonyms.

Contents

This section contains the following topics:

- [Viewing generic string values](#) on page 120
- [Modifying generic string values](#) on page 121

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

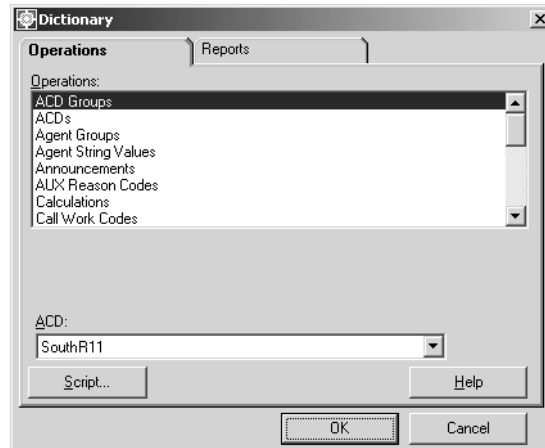
- To view generic string values, you need *read* permissions for the Dictionary subsystem.
- To modify generic string values, you need *write* permissions for the Dictionary subsystem.

Viewing generic string values

To view a generic string value from the Dictionary:

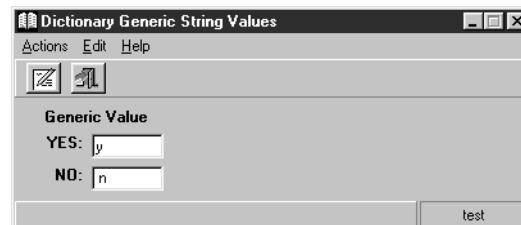
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Generic String Values**.
3. In the **ACD:** field, enter the ACD or ACD Group on which the generic string values reside.
4. Select **OK**.

Supervisor displays the **Dictionary Generic String Values** window.

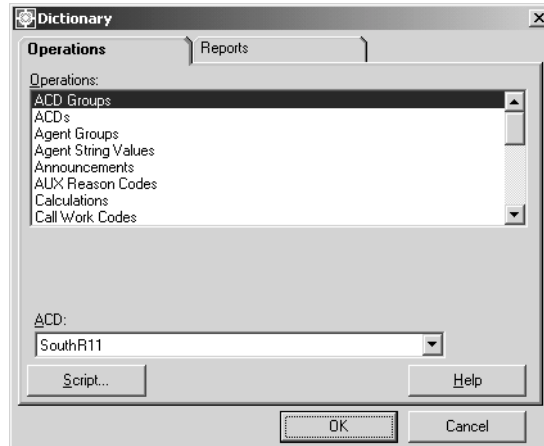


Modifying generic string values

To modify an existing generic string value in the Dictionary:

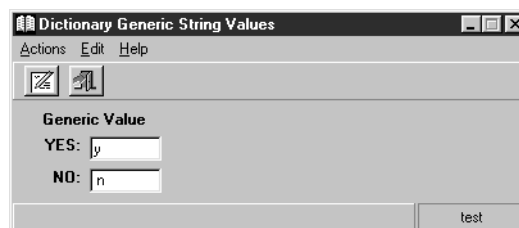
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **Generic String Values**.
3. In the **ACD:** field, enter the ACD or ACD Group on which the generic string values reside.
4. Select **OK**.

*Supervisor displays the **Dictionary Generic String Values** window.*



5. In the **YES:** field, enter up to six characters.
6. In the **NO:** field, enter up to six characters.

The characters entered in the **YES:** and **NO:** fields will appear in reports that use YES and NO fields.

7. From the **Actions** menu, select **Modify**.

Using the Dictionary to name contact center entities

Location IDs

Location IDs represent the physical location or site where an agent sits or the port network to which a trunk is assigned. Location IDs can be named for ease of identification in reporting for multi-site environments. The same location IDs and their synonyms are used for both agents and trunks.

Contents

This section contains the following topics:

- [Adding a location ID](#) on page 124
- [Viewing a location ID](#) on page 125
- [Listing all location IDs](#) on page 126
- [Modifying a location ID](#) on page 127
- [Deleting a Location ID](#) on page 128

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view the name of a location ID, you need *read* permissions for the Dictionary subsystem.
- To add, delete, or modify the name of a location ID, you need *write* permissions for the Dictionary subsystem.

Before you begin

The following items should be read and understood before working with location IDs in the Dictionary:

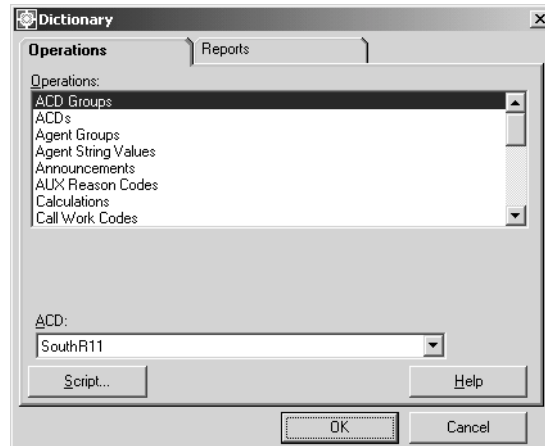
- CMS R3V11 only supports location IDs from 1 to 44. MultiVantage R11 software supports location IDs from 1 to 64. When running CMS reports that include location IDs (LOC_ID), those IDs defined on the MultiVantage system that are greater than 44 will return a default location ID of 0 to CMS. Support for location IDs above 44 is expected in a future release of CMS.

Adding a location ID

To add a location ID to the Dictionary:

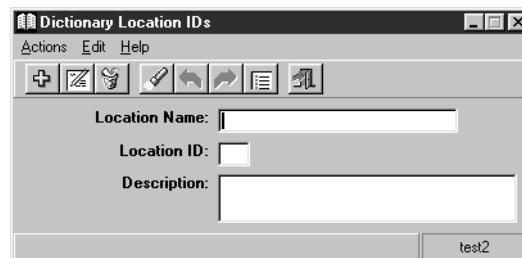
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **Location IDs**.
3. In the **ACD:** field, enter the ACD on which you want to add the location ID.
4. Select **OK**.

*Supervisor displays the **Dictionary Location IDs** window.*



5. In the **Location name:** field, enter the name of the new location.
6. In the **Location ID:** field, enter the number from 1 to 44 for the new location.

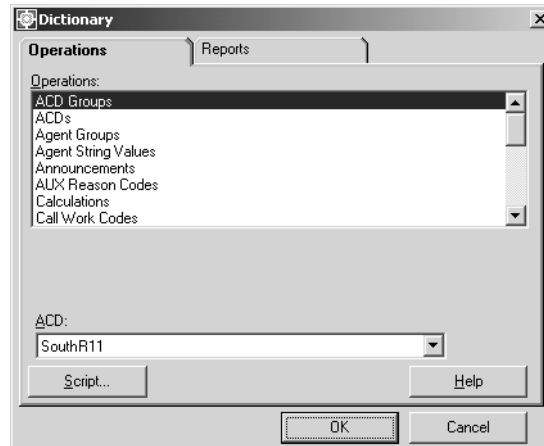
Any additional information about the location ID can be entered in the **Description:** field. Only 50 or fewer characters can be entered in this field.
7. From the **Actions** menu, select **Add**.

Viewing a location ID

To view the information associated with an existing location ID in the Dictionary:

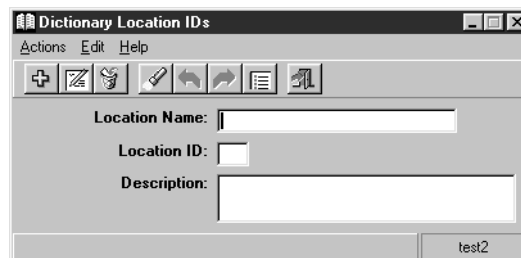
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Location IDs**.
3. In the **ACD:** field, enter the ACD on which the location ID resides.
4. Select **OK**.

Supervisor displays the **Dictionary Location IDs** window.



5. To find a location ID to view, only one of the fields requires a value to be specified. Perform one of the following actions to specify a location ID in the Dictionary:

- In the **Location Name:** field, enter the name of the location.
- In the **Location ID:** field, enter the number of the location.

6. From the **Actions** menu, select **Find One**.

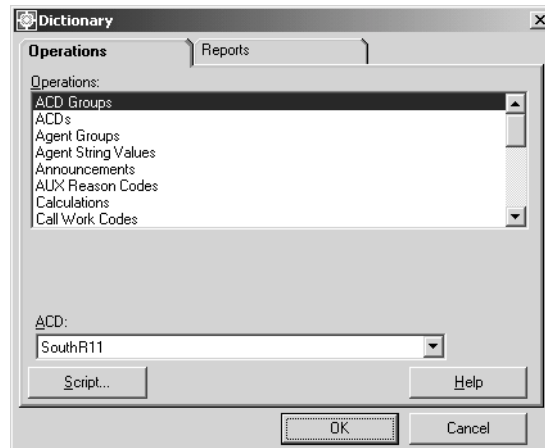
Supervisor retrieves and displays the information for the specified location ID, if valid.

Listing all location IDs

To list all location IDs defined in the Dictionary:

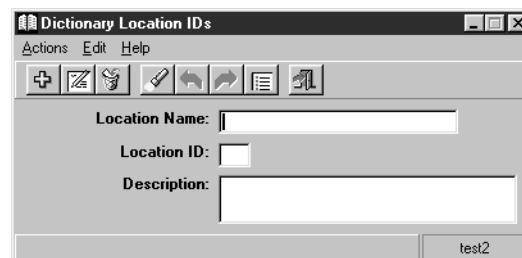
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **Location IDs**.
3. In the **ACD:** field, enter the ACD on which the location IDs reside.
4. Select **OK**.

*Supervisor displays the **Dictionary Location IDs** window.*



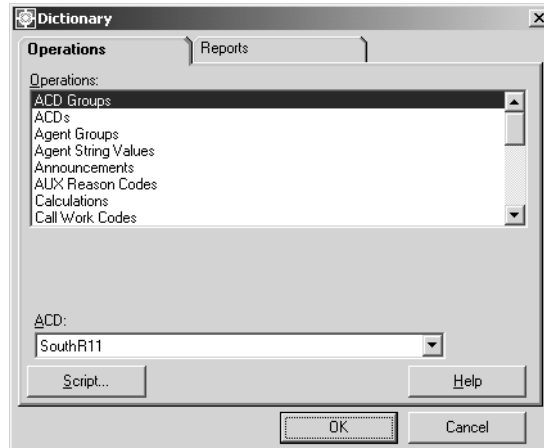
5. From the **Actions** menu, select **List All**.

Modifying a location ID

To modify an existing location ID in the Dictionary:

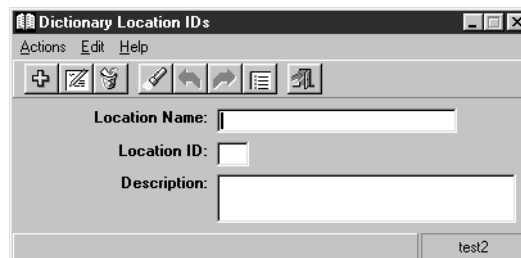
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **Location IDs**.
3. In the **ACD:** field, enter the ACD on which the location ID resides.
4. Select **OK**.

*Supervisor displays the **Dictionary Location IDs** window.*



5. To find a location ID to modify, only one of the fields requires a value to be specified. Perform one of the following actions to specify a location ID in the Dictionary:

- In the **Location Name:** field, enter the name of the location.
- In the **Location ID:** field, enter the number of the location.

6. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified location ID, if valid.

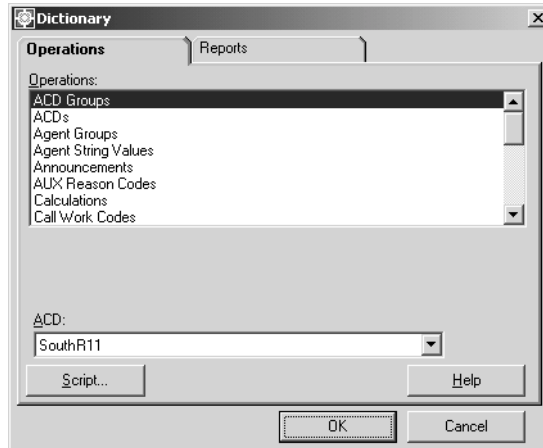
7. In the **Location Name:** field, enter the new name for the location.
8. From the **Actions** menu, select **Add**.

Deleting a Location ID

To remove a location ID from the Dictionary:

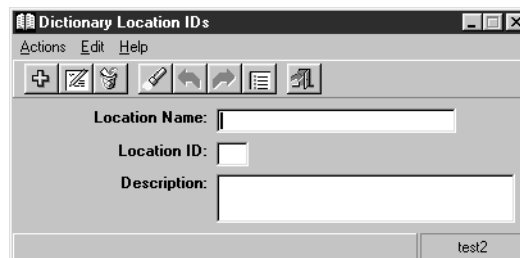
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Location IDs**.
3. In the **ACD:** field, enter the ACD on which the location ID resides.
4. Select **OK**.

Supervisor displays the **Dictionary Location IDs** window.



5. To find a location ID to delete, only one of the fields requires a value to be specified. Perform one of the following actions to specify a location ID in the Dictionary:

- In the **Location Name:** field, enter the name of the location.
- In the **Location ID:** field, enter the number of the location.

6. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified location ID.

7. From the **Actions** menu, select **Delete**.

The specified location ID is removed from the Dictionary.

Login ID names

CMS uses agent login IDs to identify measured ACD agents. After an agent's name is assigned to a login ID, *CMS* windows and reports show that agent's login ID name instead of the login ID number.

You do not have to input agent names in the Dictionary, but *CMS* administration windows and reports are easier to understand with agent names instead of login IDs. Depending on the amount of space in the report, agent names can be truncated.

Contents

This section contains the following topics:

- [Adding a name to a login ID](#) on page 131
- [Viewing a login ID name](#) on page 132
- [Listing all login ID names](#) on page 133
- [Modifying a login ID name](#) on page 134
- [Deleting a login ID name](#) on page 135

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view login IDs, you need *read* permissions for the Dictionary subsystem.
- To add, delete, or modify login IDs, you need *write* permissions for the Dictionary subsystem.

Before you begin

The following items should be read and understood before working with login ID names in the Dictionary:

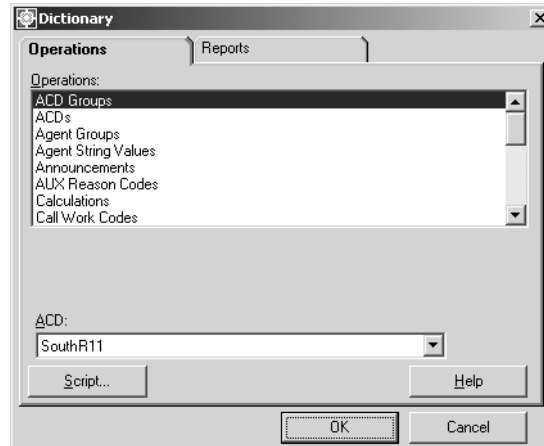
- Login ID names are sorted alphabetically in the Dictionary based on the first character that you input in the **Agent name:** field.
For example, if the agent is listed as **Jane Brown**, CMS sorts on the **J** for Jane. If the agent is listed as **Brown, Jane** CMS sorts on the **B** in Brown. *Supervisor* reports do not automatically sort by agent name, but the user can request the report to do so.
- You can assign no more than one agent name to the same login ID.
- You cannot assign the same agent name to multiple login IDs.
- You can use only numbers in login IDs.
- If you are viewing a real-time report when a change is made to a login ID that appears on that report, you must exit the report and rerun it to see the change.

Adding a name to a login ID

To add a name to a login ID in the Dictionary:

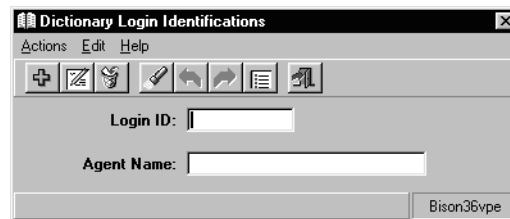
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **Login Identifications**.
3. In the **ACD:** field, enter the ACD or ACD Group on which you want to assign a name to a login ID.
4. Select **OK**.

*Supervisor displays the **Dictionary Login Identifications** window.*



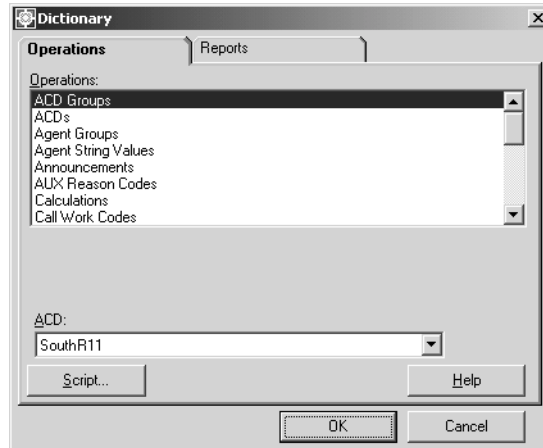
5. In the **Login ID:** field, enter the number of the login ID on which you want to assign a new name.
6. In the **Agent Name:** field, enter the name of the agent to be associated with the Login ID number.
7. From the **Actions** menu, select **Add**.

Viewing a login ID name

To view the information associated with an existing login ID name in the Dictionary:

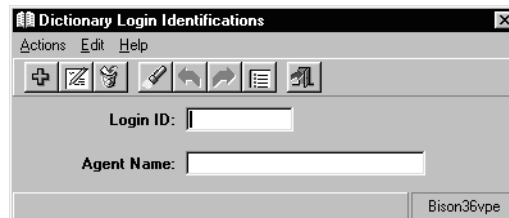
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Login Identifications**.
3. In the **ACD:** field, enter the ACD or ACD Group on which you want to view a login ID name.
4. Select **OK**.

Supervisor displays the **Dictionary Login Identifications** window.



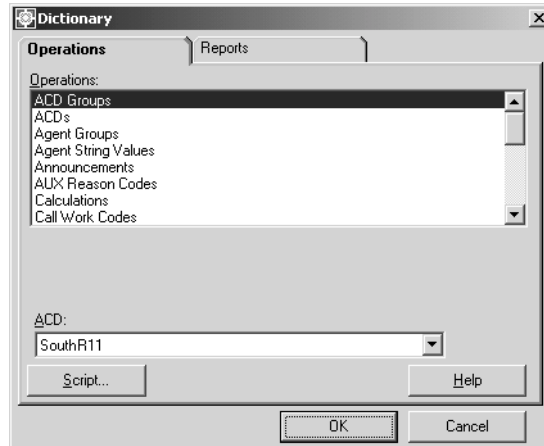
5. To find a login ID to view, only one of the fields requires a value to be specified. Perform one of the following actions to specify a login ID in the Dictionary:
 - In the **Login ID:** field, enter the number of the login ID.
 - In the **Agent Name:** field, enter the name of the agent.
 6. From the **Actions** menu, select **Find One**.
- Supervisor* retrieves and displays the information for the specified login ID, if valid.

Listing all login ID names

To list all login ID names defined in the Dictionary:

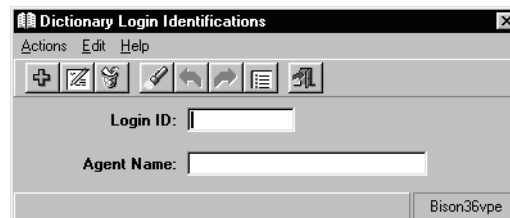
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **Login Identifications**.
3. In the **ACD:** field, enter the ACD or ACD Group on which you want to list all login ID names.
4. Select **OK**.

*Supervisor displays the **Dictionary Login Identifications** window.*



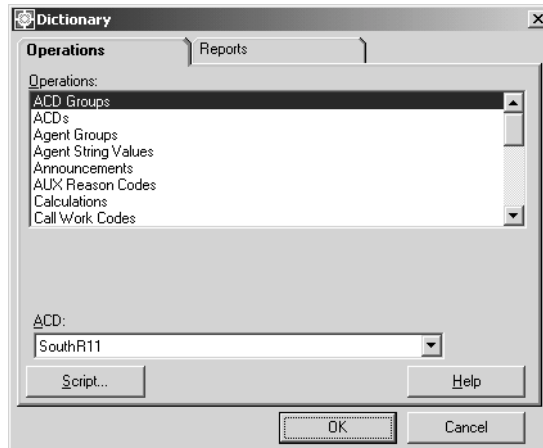
5. From the **Actions** menu, select **List All**.

Modifying a login ID name

To modify an existing login ID name in the Dictionary:

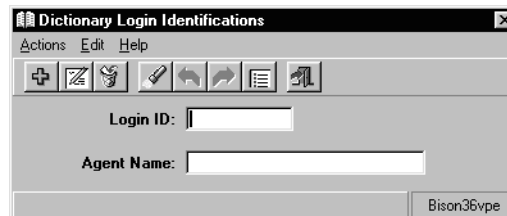
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Login Identifications**.
3. In the **ACD:** field, enter the ACD or ACD Group on which you want to modify a login ID name.
4. Select **OK**.

Supervisor displays the **Dictionary Login Identifications** window.



5. To find a login ID to modify, only one of the fields requires a value to be specified. Perform one of the following actions to specify a login ID in the Dictionary:
 - In the **Login ID:** field, enter the number of the login ID.
 - In the **Agent Name:** field, enter the name of the agent.
6. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information associated with the specified login ID name, if valid.
7. In the **Agent Name:** field, enter the modified name of the agent.
8. From the **Actions** menu, select **Modify**.

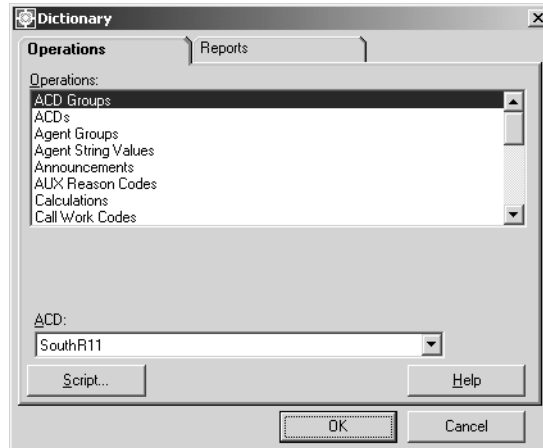
The specified login ID name and its changes are saved in the Dictionary.

Deleting a login ID name

To delete an existing login ID name from the Dictionary:

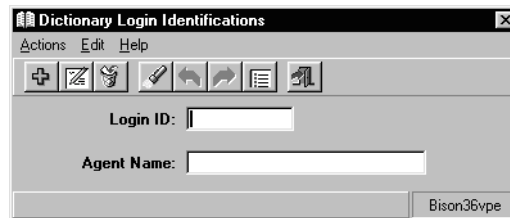
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Login Identifications**.
3. In the **ACD:** field, enter the ACD or ACD Group on which the login ID name to delete resides.
4. Select **OK**.

Supervisor displays the **Dictionary Login Identifications** window.



5. To find a login ID to delete, only one of the fields requires a value to be specified. Perform one of the following actions to specify a login ID in the Dictionary:

- In the **Login ID:** field, enter the number of the login ID.
- In the **Agent Name:** field, enter the name of the agent.

6. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified login ID name, if valid.

7. From the **Actions** menu, select **Delete**.

Using the Dictionary to name contact center entities

Logout reason code names

Logout reason codes enable an agent to give the reason for logging out, such as attending training or the end of a shift. You can add, delete, modify, and view logout reason codes from the **Logout Reason Codes** window. The names that are assigned to the logout reason codes appear in the standard agent login/logout and agent trace historical reports.

Contents

This section contains the following topics:

- [Adding a logout reason code name](#) on page 138
- [Viewing a logout reason code name](#) on page 139
- [Listing all logout reason code names](#) on page 140
- [Modifying a logout reason code name](#) on page 142
- [Deleting a logout reason code name](#) on page 144

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view logout reason codes, you need *read* permissions for the Dictionary subsystem.
- To add, delete, or modify logout reason code, you need *write* permissions for the Dictionary subsystem.

Before you begin

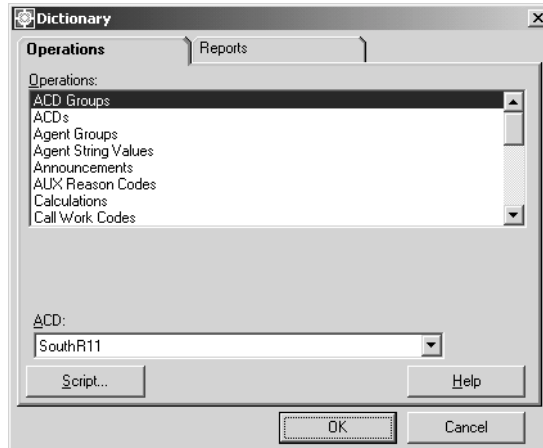
- Logout reason codes are single digits, 0 through 9. A zero is used when the system logs an agent out or if the agent does not specify a code.
- Logout reason code names can be up to 20 characters long.
- To use logout reason codes, your switch must have the Expert Agent Selection (EAS) feature.

Adding a logout reason code name

To add a logout reason code name in the Dictionary:

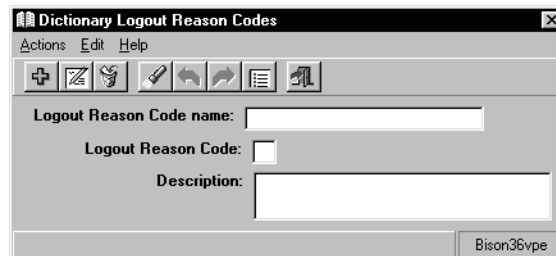
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Logout Reason Codes**.
3. In the **ACD:** field, enter the ACD or ACD Group on which you want to add a logout reason code.
4. Select **OK**.

Supervisor displays the **Dictionary Logout Reason Codes** window.



5. In the **Logout Reason Code name:** field, enter the name of the new logout reason code.
6. In the **Logout Reason Code:** field, enter a number from 0 to 9 to be associated with the logout reason code name.

Any additional information about the logout reason code can be entered in the **Description:** field. Only 50 or fewer characters can be entered in this field.

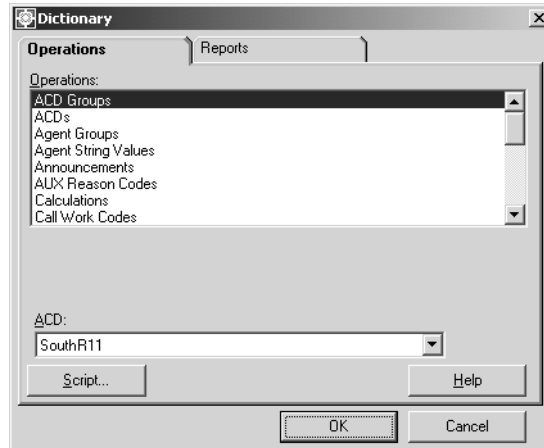
7. From the **Actions** menu, select **Add**.

Viewing a logout reason code name

To view an existing logout reason code name in the Dictionary:

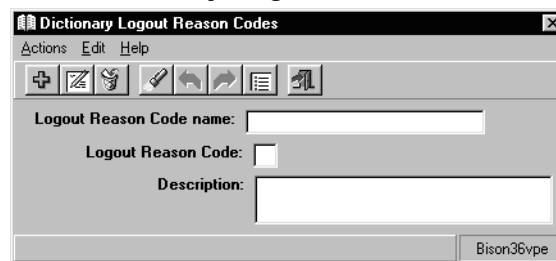
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Logout Reason Codes**.
3. In the **ACD:** field, enter the ACD or ACD Group on which you want to view a logout reason code name.
4. Select **OK**.

Supervisor displays the **Dictionary Logout Reason Codes** window.



5. To find a logout reason code to view, only one of the fields requires a value to be specified. Perform one of the following actions to specify a logout reason code in the Dictionary:
 - In the **Logout Reason Code name:** field, enter the name of the logout reason code.
 - In the **Logout Reason Code:** field, enter a number from 0 to 9 that is associated with the logout reason code.
6. From the **Actions** menu, select **Find One**.

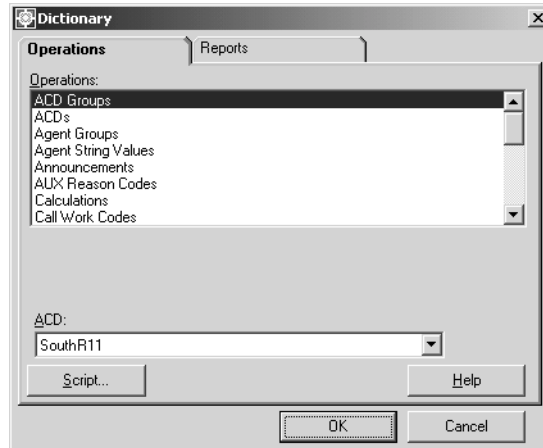
Supervisor retrieves and displays the information for the specified logout reason code name, if valid.

Listing all logout reason code names

To list all existing logout reason code names in the Dictionary:

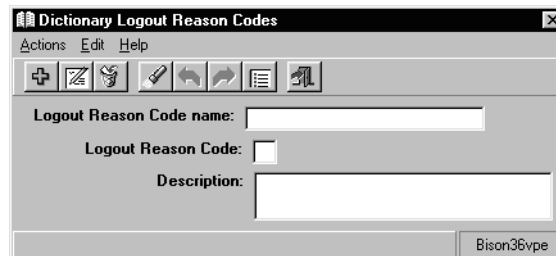
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



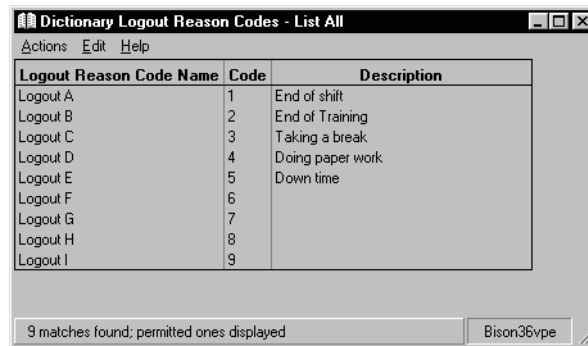
2. In the **Operations:** list, highlight **Logout Reason Codes**.
3. In the **ACD:** field, enter the ACD or ACD Group on which you want to view all logout reason code names.
4. Select **OK**.

Supervisor displays the **Dictionary Logout Reason Codes** window.



5. From the **Actions** menu, select **List All**.

Supervisor displays the **Dictionary Logout Reason Codes - List All** window.



Logout Reason Code Name	Code	Description
Logout A	1	End of shift
Logout B	2	End of Training
Logout C	3	Taking a break
Logout D	4	Doing paper work
Logout E	5	Down time
Logout F	6	
Logout G	7	
Logout H	8	
Logout I	9	

9 matches found; permitted ones displayed

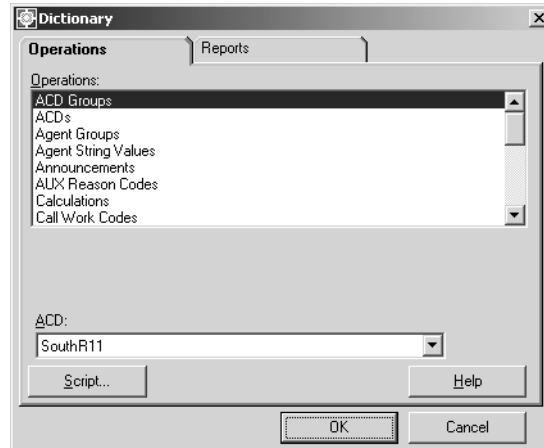
Bison36vpe

Modifying a logout reason code name

To modify an existing logout reason code name in the Dictionary:

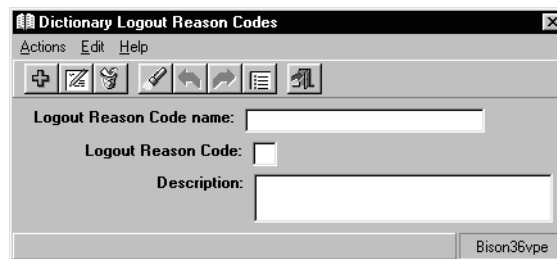
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Logout Reason Codes**.
3. In the **ACD:** field, enter the ACD or ACD Group on which you want to modify a logout reason code name.
4. Select **OK**.

Supervisor displays the **Dictionary Logout Reason Codes** window.



5. To find a logout reason code to modify, only one of the fields requires a value to be specified. Perform one of the following actions to specify a logout reason code in the Dictionary:
 - In the **Logout Reason Code name:** field, enter the name of the logout reason code.
 - In the **Logout Reason Code:** field, enter the number from 0 to 9 that is associated with the logout reason code.

6. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified logout reason code name, if valid.

7. In the **Logout Reason Code name:** field, enter the new name for the logout reason code.

8. From the **Actions** menu, select **Modify**.

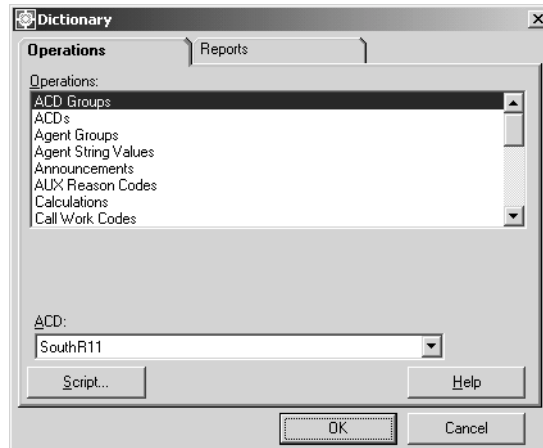
The specified logout reason code name and its changes are saved to the Dictionary.

Deleting a logout reason code name

To delete an existing logout reason code name from the Dictionary:

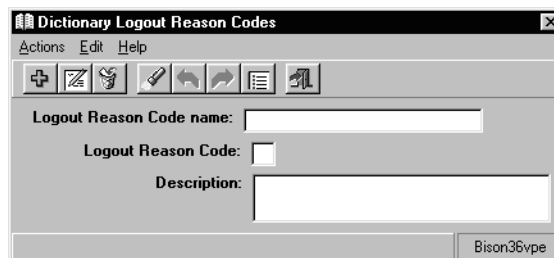
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Logout Reason Codes**.
3. In the **ACD:** field, enter the ACD or ACD Group on which the logout reason code name to delete resides.
4. Select **OK**.

Supervisor displays the **Dictionary Logout Reason Codes** window.



5. To find a logout reason code to delete, only one of the fields requires a value to be specified. Perform one of the following actions to specify a logout reason code in the Dictionary:
 - In the **Logout Reason Code name:** field, enter the name of the logout reason code.
 - In the **Logout Reason Code:** field, enter the number from 0 to 9 that is associated with the logout reason code.

6. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified logout reason code name, if valid.

7. From the **Actions** menu, select **Delete**.

The specified logout reason code name is removed from the Dictionary.

Using the Dictionary to name contact center entities

Split/skill string values

Split/skill string values are the descriptive words used in the split/skill call profile reports in place of the split/skill numeric values. From the **Split/Skill String Values** window, you can change the default string values to correspond with your own requirements.

Contents

This section contains the following topics:

- [Viewing split/skill string values](#) on page 148
- [Modifying split/skill string values](#) on page 149
- [Split/skill string value field descriptions](#) on page 150

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view split/skill string values, you need *read* permissions for the Dictionary subsystem.
- To modify split/skill string values, you need *write* permissions for the Dictionary subsystem.

Before you begin

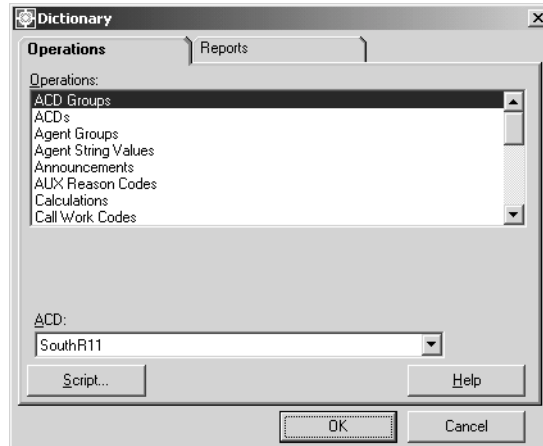
- If you assign values that are longer than the field lengths allowed on standard reports, those values are truncated to fit on the reports. Similar custom reports can be created to accommodate the longer string values.
- If you do not assign different values to the split/skill string values, the default values are used.

Viewing split/skill string values

To view the string value for splits or skills in the Dictionary:

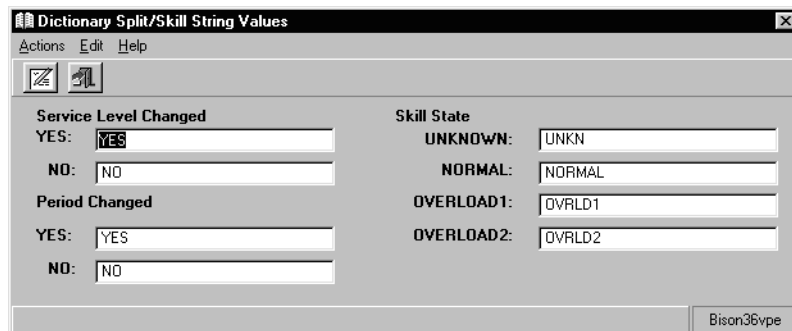
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Split/Skill String Values**.
3. In the **ACD:** field, enter the ACD or ACD Group on which you want to view the split/skill string values.
4. Select **OK**.

Supervisor displays the **Dictionary Split/Skill String Values** window.

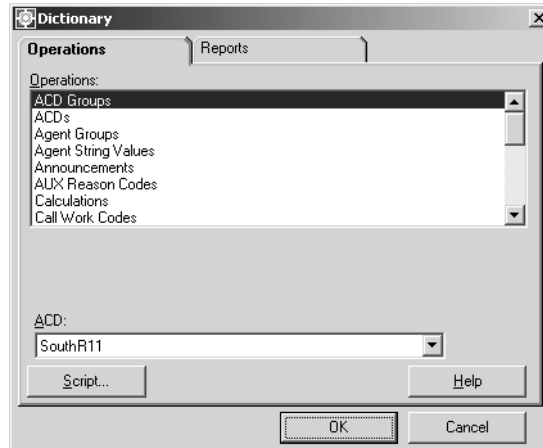
The screenshot shows the 'Dictionary Split/Skill String Values' window. It has a menu bar with 'Actions', 'Edit', and 'Help'. Below the menu bar are two icons. The window is divided into two main sections. The left section is titled 'Service Level Changed' and contains two groups of fields: 'YES: YES' and 'NO: NO' for 'Service Level Changed', and 'YES: YES' and 'NO: NO' for 'Period Changed'. The right section is titled 'Skill State' and contains four fields: 'UNKNOWN: UNKN', 'NORMAL: NORMAL', 'OVERLOAD1: OVRLD1', and 'OVERLOAD2: OVRLD2'. At the bottom right, there is a text box containing 'Bison36vpe'.

Modifying split/skill string values

To modify the existing string values for splits or skills in the Dictionary:

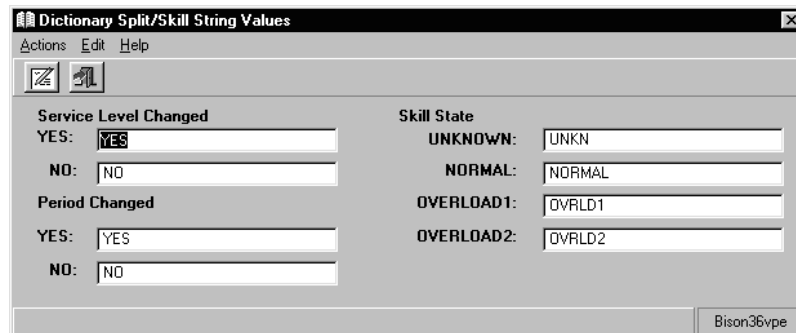
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **Split/Skill String Values**.
3. In the **ACD:** field, enter the ACD or ACD Group on which you want to modify the split/skill string values.
4. Select **OK**.

*Supervisor displays the **Dictionary Split/Skill String Values** window.*



5. Enter a new split/skill string value in each field that you want to modify.
See [Split/skill string value field descriptions](#) on page 150 for more information.
6. From the **Actions** menu, select **Modify**.
The split/skill string values and their changes are saved to the Dictionary.

Split/skill string value field descriptions

The following table describes the fields in the **Dictionary Split/Skill String Values** window:

Field	Description
Service Level Changed	The service level is the time limit in seconds for calls to wait in queue before being answered. The Split/Skill Call Profile reports can be used to see how many calls were either answered or abandoned within each service level increment. The string values in the following fields are displayed on the Split/Skill Call Profile Report: ● YES - The string value in this field will appear on the Split/Skill Call Profile Report if the service level in the split/skill call profile has changed. ● NO - The string value in this field will appear on the Split/Skill Call Profile Report if the service level in the split/skill call profile has not changed.

Field	Description
Period Changed	There are ten time increments of administrable length in the real-time and historical Split/Skill Call Profile Reports. The string values in the following fields are displayed on the Split/Skill Call Profile Report: ● YES - The string value in this field will appear on the Split/Skill Call Profile if the time period in the split/skill call profile has changed. ● NO - The string value in this field will appear on the Split/Skill Call Profile if the time period in the split/skill call profile has not changed.
Skill State	Skill states are used to specify states for the different skills. The string values in the following fields represent the following skill states: ● UNKNOWN - Leave the default value. The default value is UNKN. ● NORMAL - Enter the descriptive word for the state of a skill using the Service Level Supervisor feature when it is below all overload thresholds. The default value is NORMAL. ● OVERLOAD1 - Enter the descriptive word for the state of a skill using the Service Level Supervisor feature when it exceeds the first overload threshold. The default value is OVRLD1. ● OVERLOAD2 - Enter the descriptive word for the state of a skill using the Service Level Supervisor feature when it exceeds both the first and second thresholds. The default value is OVRLD2.

Using the Dictionary to name contact center entities

Split/Skill names

You can assign names to your ACD splits or skills. These split/skill names appear on the split/skill reports, making your reports easier to identify and read.

Split/skill names should reflect the configuration of your splits/skills and ACDs.

For example, if you want splits in your system to be divided according to Sales, Customer Service, and Wholesale, assign those names to the splits that handle those areas of the business. If you want skills in your system to be divided by language such as French, Spanish, and German, assign those names to the skills that handle calls in those languages.

Contents

This section contains the following topics:

- [Adding a split/skill name](#) on page 155
- [Viewing a split/skill name](#) on page 156
- [Listing all the split/skill names](#) on page 157
- [Modifying a split/skill name](#) on page 158
- [Deleting a split/skill name](#) on page 160

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view the name assigned to a split/skill, you need *read* permissions for the Dictionary subsystem and for the split/skill.
- To add, delete or modify the name assigned to a split/skill, you need *write* permissions for the Dictionary subsystem and for the split/skill.

Before you begin

The following items should be read and understood before working with split/skill names in the Dictionary:

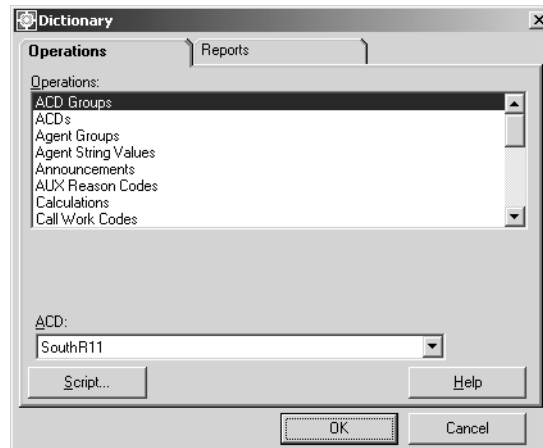
- It is advised that you be consistent with the names given by your switch administrator.
- If you assign a name, the split/skill number no longer appears in split/skill reports or windows. The split/skill name appears instead.
- If you make changes to split/skill names when viewing a report that includes those splits/skills, you must exit the report and rerun it to see the changes.

Adding a split/skill name

To add a name for a split or skill in the Dictionary:

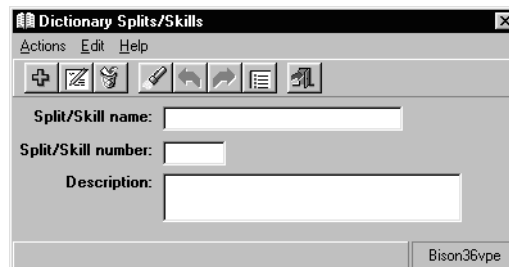
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **Splits/Skills**.
3. In the **ACD:** field, enter the ACD or ACD Group on which you want to name a split/skill.
4. Select **OK**.

*Supervisor displays the **Dictionary Splits/Skills** window.*



5. In the **Split/Skill name:** field, enter the name of the split/skill.
6. In the **Split/Skill number:** field, enter the number of the split/skill.

Any additional information about the split/skill can be entered in the **Description:** field. Only 50 or fewer characters can be entered in this field.

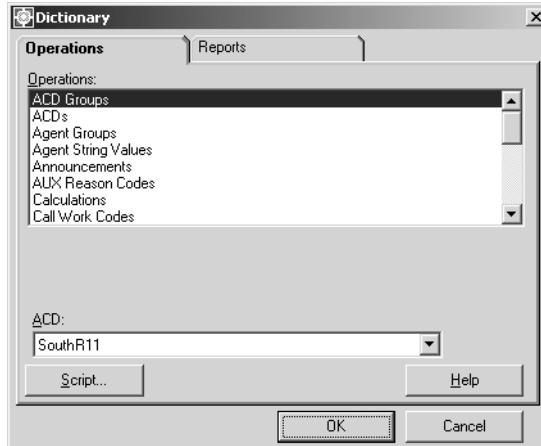
7. From the **Actions** menu, select **Add**.

Viewing a split/skill name

To view an existing name for a split or skill in the Dictionary:

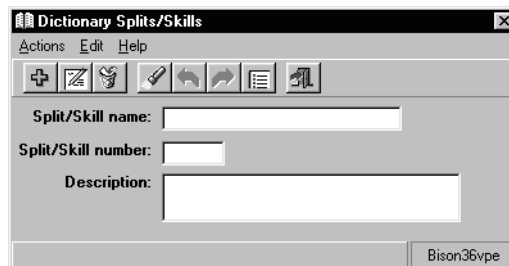
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Splits/Skills**.
3. In the **ACD:** field, enter the ACD or ACD Group on which you want to view a split/skill.
4. Select **OK**.

Supervisor displays the **Dictionary Splits/Skills** window.



5. To find a split/skill to view, only one of the fields requires a split/skill to be specified. Perform one of the following actions to specify an existing split/skill in the Dictionary:
 - In the **Split/Skill name:** field, enter the name of the split/skill.
 - In the **Split/Skill number:** field, enter the number of the split/skill.
6. From the **Actions** menu, select **Find One**.

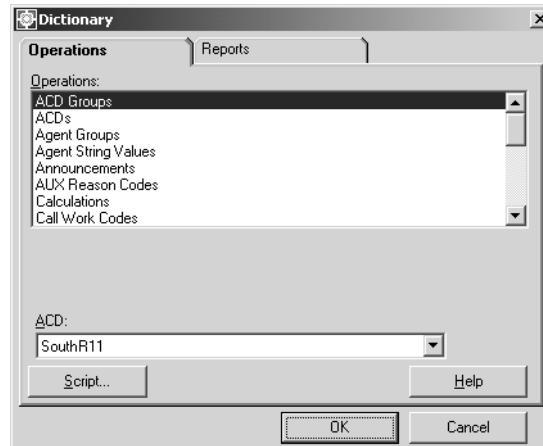
Supervisor retrieves and displays the information for the specified split/skill name, if valid.

Listing all the split/skill names

To list the names for all splits or skills in the Dictionary:

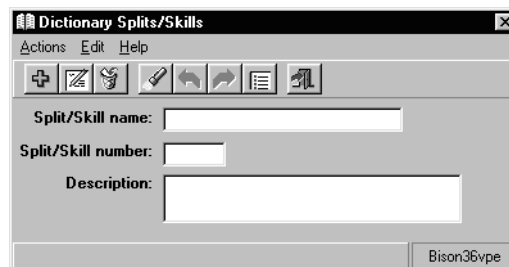
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Splits/Skills**.
3. In the **ACD:** field, enter the ACD or ACD Group on which you want to view all split/skill names.
4. Select **OK**.

Supervisor displays the **Dictionary Splits/Skills** window.



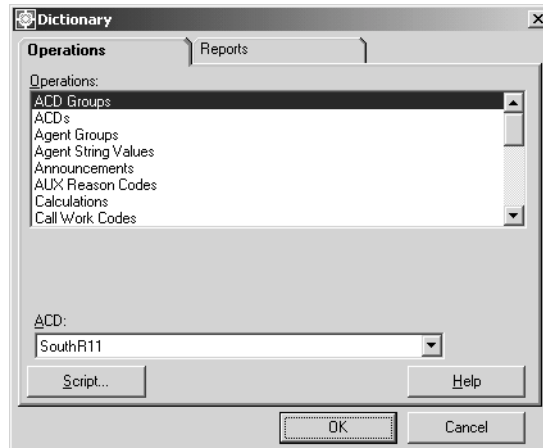
5. From the **Actions** menu, select **List All**.

Modifying a split/skill name

To modify an existing name for a split or skill in the Dictionary:

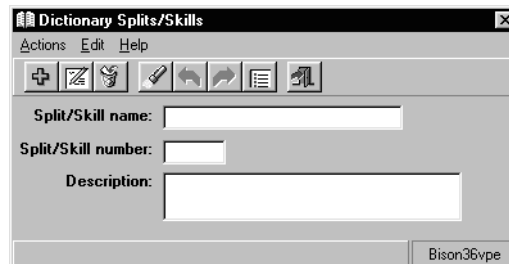
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Splits/Skills**.
3. In the **ACD:** field, enter the ACD or ACD Group on which you want to modify the split/skill name.
4. Select **OK**.

Supervisor displays the **Dictionary Splits/Skills** window.



5. To find a split/skill to modify, only one of the fields requires a split/skill to be specified. Perform one of the following actions to specify an existing split/skill in the Dictionary:
 - In the **Split/Skill name:** field, enter the name of the split/skill.
 - In the **Split/Skill number:** field, enter the number of the split/skill.
6. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified split/skill name, if valid.

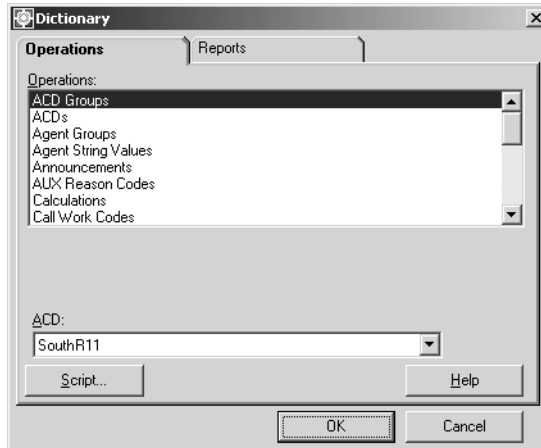
7. In the **Split/Skill name:** field, enter the new name of the split/skill.
 8. From the **Actions** menu, select **Modify**.
- The split/skill name and its changes are saved to the Dictionary.

Deleting a split/skill name

To delete the name for a split or skill in the Dictionary:

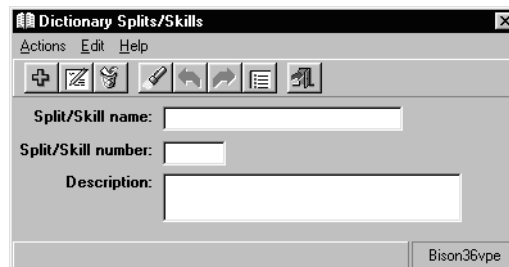
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Splits/Skills**.
3. In the **ACD:** field, enter the ACD or ACD Group on which the split/skill name to delete resides.
4. Select **OK**.

Supervisor displays the **Dictionary Splits/Skills** window.



5. To find a split/skill to delete, only one of the fields requires a split/skill to be specified. Perform one of the following actions to specify an existing split/skill in the Dictionary:
 - In the **Split/Skill name:** field, enter the name of the split/skill.
 - In the **Split/Skill number:** field, enter the number of the split/skill.
6. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified split/skill name, if valid.
7. From the **Actions** menu, select **Delete**.

The split/skill name is removed from the Dictionary.

Standard database items

Standard database items store ACD data and are used by *CMS* in its default reports.

You cannot change or delete standard database items because this is a *read-only* section of the Dictionary. You can view the standard information about each database item, the description for that item, and the tables in which the item appears.

The following example shows a current real-time agent table with standard *CMS* database item column headings:

Extension	Split	Logid	Logon start	Work mode	Started	Direction	Changed	>*
1000	1	4000	8:00	AVAIL	8:00	NULL	8:00	>
1001	1	5966	7:58	ACD	8:04	IN	8:04	>
1002	1	2200	7:59	ACD	8:03	IN	8:03	>
.	.	.	.	.	.	.	.	>

Note:

>* indicates that more database item column headings follow. A dot (.) indicates that more data follows down the table.

Contents

This section contains the following topics:

- [Viewing a standard database item](#) on page 162
- [Viewing all standard database items alphabetically](#) on page 164

Permissions

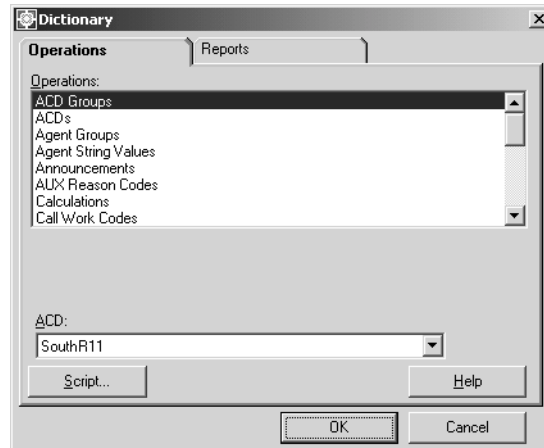
To view the standard database items, you need *read* permissions for the Dictionary subsystem.

Viewing a standard database item

To view a standard database item in the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

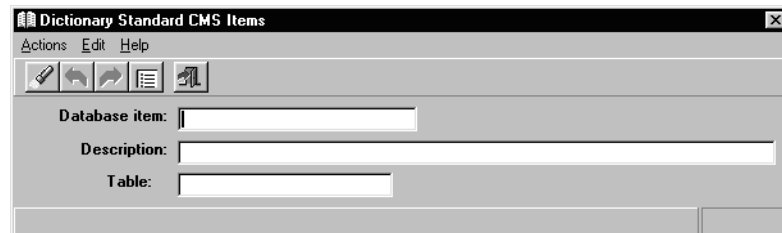
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Standard CMS Items**.

3. Select **OK**.

Supervisor displays the **Dictionary Standard CMS Items** window.



4. In the **Database item:** field, enter the name of the database item entirely in uppercase letters.

⚠ Important:

If you do not know the entire database item name, enter part of the database item name along with an asterisk (*) to find the item. You can use pattern searching in any field in the window.

You can also enter information in the **Table:** field to limit the search of a database item to a single table.

5. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified standard database item, if valid.

Note:

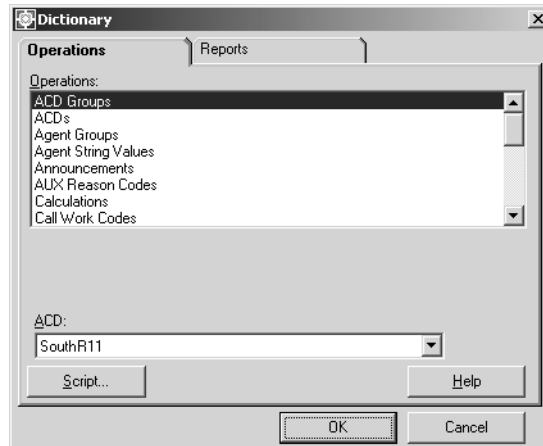
If you used pattern matching in your search for a standard database item, it is possible that more than one match was found. To view the next database item that matches the search parameter, select **Next** from the **Actions** menu. Continue to select **Next** until the appropriate database item is found.

Viewing all standard database items alphabetically

To view all standard database items in the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

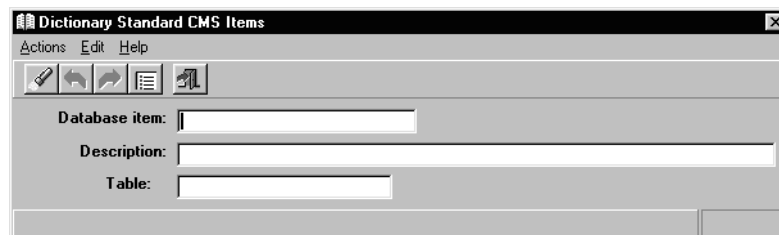
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Standard CMS Items**.

3. Select **OK**.

Supervisor displays the **Dictionary Standard CMS Items** window.



4. From the **Actions** menu, select **List All**.

Trunk group names

The **Trunk Groups** window is used to assign names to ACD trunk groups. The trunk groups names appear in reports making the reports easier to understand.

Contents

This section contains the following topics:

- [Adding a trunk group name](#) on page 166
- [Viewing a trunk group name](#) on page 167
- [Listing all trunk group names](#) on page 168
- [Modifying a trunk group name](#) on page 169
- [Deleting a trunk group name](#) on page 171

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view the name that is assigned to a trunk group, you need *read* permissions for the Dictionary subsystem and for the trunk group.
- To add, delete, or modify the name assigned to a trunk group, you need *write* permissions for the Dictionary subsystem and for the trunk group.

Before you begin

The following items should be read and understood before working with trunk groups names in the Dictionary:

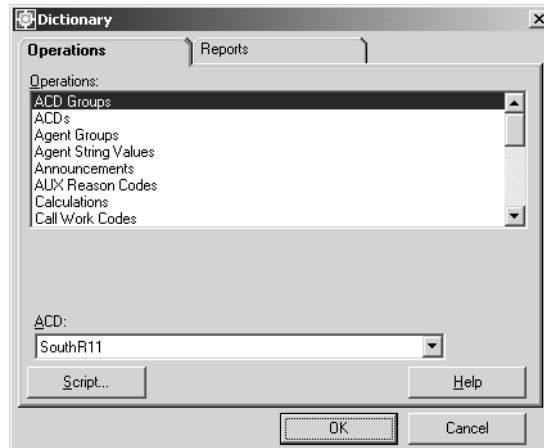
- When naming trunk groups, you may want to be consistent with the names given to trunk groups and splits/skills by your switch administrator.
- If you assign a trunk group name, the name is displayed on trunk group reports or windows instead of the trunk group number.
- If you make changes to trunk group names while viewing a report that includes those trunk groups, you must exit the report and rerun it to see the changes.

Adding a trunk group name

To add a trunk group name to the Dictionary:

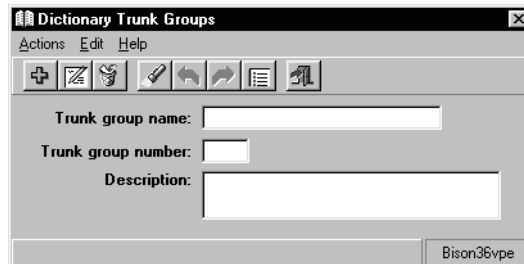
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Trunk Groups**.
3. In the **ACD:** field, enter the ACD on which you want to name a trunk group.
4. Select **OK**.

Supervisor displays The **Dictionary Trunk Groups** window.



5. In the **Trunk group name:** field, enter the name of the trunk group.
6. In the **Trunk group number:** field, enter the number of the trunk group.

Any additional information about the trunk group can be entered in the **Description:** field. Only 50 or fewer characters can be entered in this field.

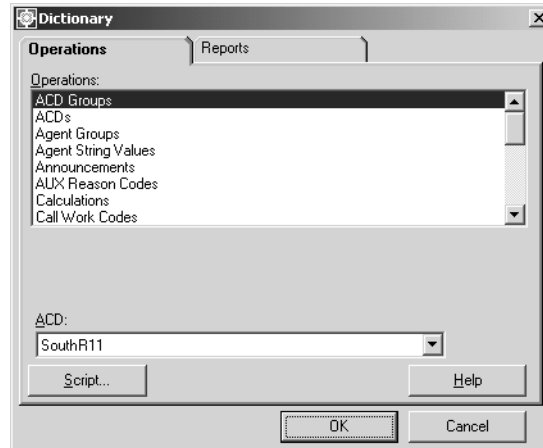
7. From the **Actions** menu, select **Add**.

Viewing a trunk group name

To view an existing trunk group name in the Dictionary:

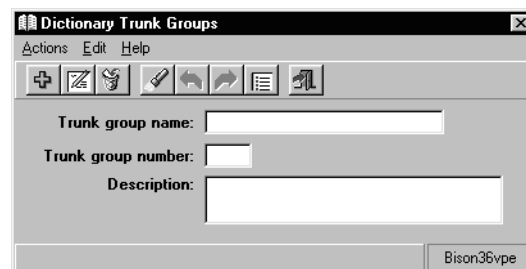
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Trunk Groups**.
3. In the **ACD:** field, enter the ACD on which you want to view a trunk group name.
4. Select **OK**.

Supervisor displays the **Dictionary Trunk Groups** window.



5. To find a trunk group to view, only one of the fields requires a trunk group to be specified. Perform one of the following actions to specify an existing trunk group in the Dictionary:
 - In the **Trunk group name:** field, enter the name of the trunk group.
 - In the **Trunk group number:** field, enter the number of the trunk group.
6. From the **Actions** menu, select **Find One**.

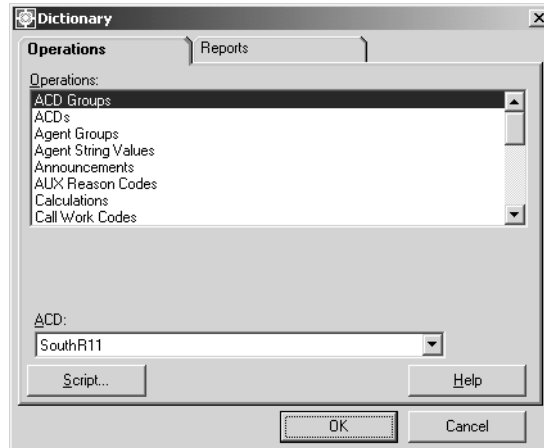
Supervisor retrieves and displays the information for the specified trunk group, if valid.

Listing all trunk group names

To list all trunk group names in the Dictionary:

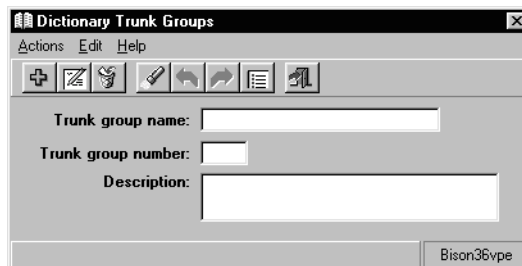
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Trunk Groups**.
3. In the **ACD:** field, enter the ACD on which you want to list all trunk group names.
4. Select **OK**.

Supervisor displays the **Dictionary Trunk Groups** window.



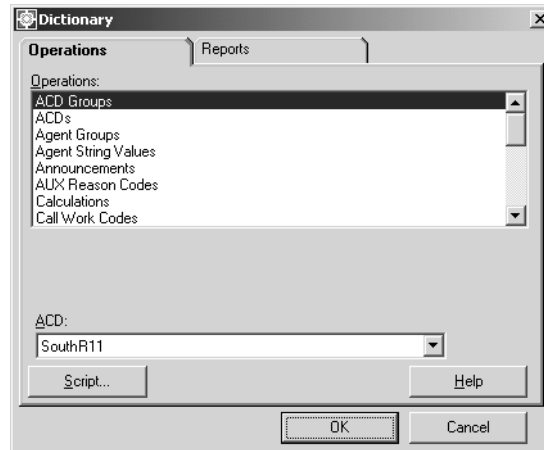
5. From the **Actions** menu, select **List All**.

Modifying a trunk group name

To change the name or description of a trunk group in the Dictionary:

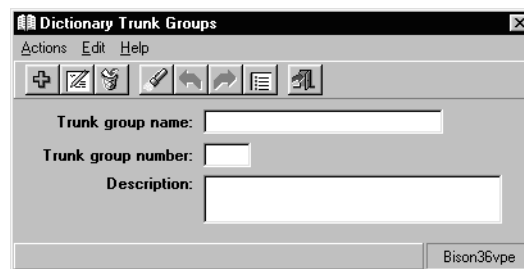
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **Trunk Groups**.
3. In the **ACD:** field, enter the ACD on which you want to modify a trunk group name.
4. Select **OK**.

*Supervisor displays the **Dictionary Trunk Groups** window.*



5. To find a trunk group to modify, only one of the fields requires a trunk group to be specified. Perform one of the following actions to specify an existing trunk group in the Dictionary:
 - In the **Trunk group name:** field, enter the name of the trunk group.
 - In the **Trunk group number:** field, enter the number of the trunk group.

Using the Dictionary to name contact center entities

6. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified trunk group, if valid.

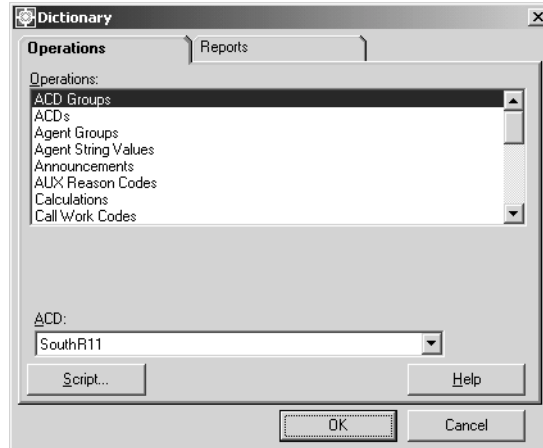
7. In the **Trunk group name:** or **Description** field, make the necessary changes for the trunk group.
8. From the **Actions** menu, select **Modify**.

Deleting a trunk group name

To remove a name for a trunk group from the Dictionary:

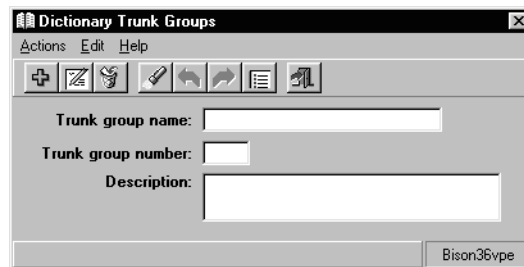
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **Trunk Groups**.
3. In the **ACD:** field, enter the ACD on which the trunk group to delete resides.
4. Select **OK**.

*Supervisor displays the **Dictionary Trunk Groups** window.*



5. To find a trunk group to delete, only one of the fields requires a trunk group to be specified. Perform one of the following actions to specify an existing trunk group in the Dictionary:
 - In the **Trunk group name:** field, enter the name of the trunk group.
 - In the **Trunk group number:** field, enter the number of the trunk group.
6. From the **Actions** menu, select **Delete**.

The selected trunk group name is removed from the Dictionary.

Using the Dictionary to name contact center entities

Trunk string values

Trunk string values are the descriptive words such as IDLE, HOLD, or QUEUED on trunk reports. These words are displayed in the data fields of the report. They are not displayed as headings. From the **Trunk String Values** window, the default values can be changed to any values that meet the needs of your contact center. If you do not assign different trunk string values, the default values are used. Any changes that you make to the trunk string values affect what you see in the corresponding fields on trunk reports.

Contents

This section contains the following topics:

- [Viewing and modifying trunk string values](#) on page 174
- [Trunk string values field descriptions](#) on page 176

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

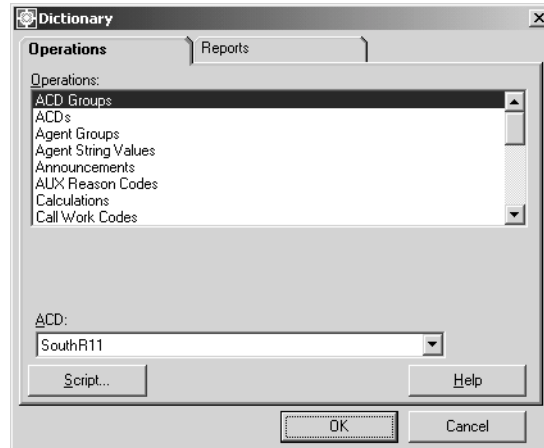
- To view the trunk string values, you need *read* permissions for the Dictionary subsystem.
- To modify a trunk string value, you need *write* permissions for the Dictionary subsystem.

Viewing and modifying trunk string values

To view and modify trunk string values in the Dictionary:

1. From the Controller Window, select **Commands > Dictionary**.

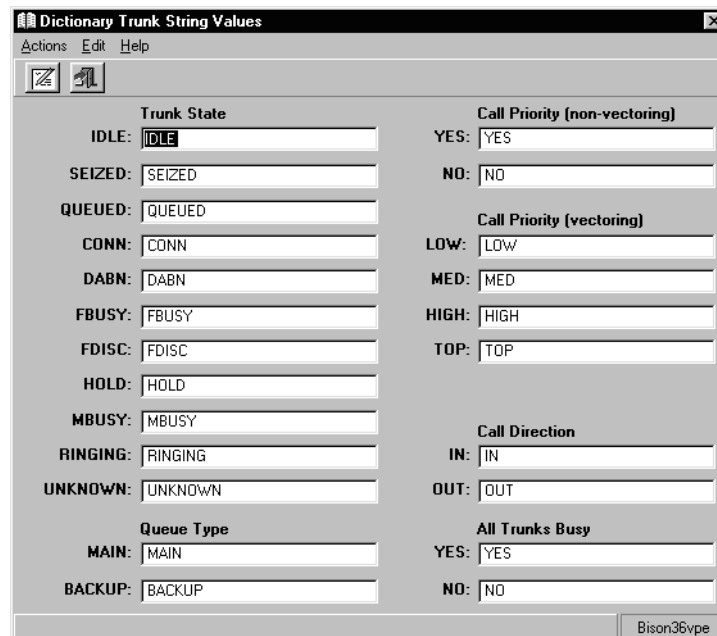
Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Trunk String Values**.

3. Select **OK**.

Supervisor displays the **Dictionary Trunk String Values** window.

The screenshot shows the 'Dictionary Trunk String Values' window. It has a menu bar with 'Actions', 'Edit', and 'Help'. Below the menu bar are two icons. The window is divided into several sections with input fields:

- Trunk State:** IDLE (highlighted), SEIZED, QUEUED, CONN, DABN, FBUSY, FDISC, HOLD, MBUSY, RINGING, UNKNOWN.
- Call Priority (non-vectoring):** YES, NO.
- Call Priority (vectoring):** LOW, MED, HIGH, TOP.
- Call Direction:** IN, OUT.
- Queue Type:** MAIN, BACKUP.
- All Trunks Busy:** YES, NO.

At the bottom right, there is a text label 'Bison36vpe'.

4. To change any of the default names, enter the new descriptive word in the text box that is next to the name that you want to change.

See [Trunk string values field descriptions](#) on page 176 for more information on the fields in the **Dictionary Trunk String Values** window.

5. From the **Actions** menu, select **Modify** when the necessary changes have been completed.

Trunk string values field descriptions

The following table describes the trunk string value fields:

Field	Description
Trunk State	To change any of the trunk state default names, enter the new descriptive word next to any of the following: ● IDLE - The trunk is waiting for a call. ● SEIZED - A call is holding the trunk, either incoming or outgoing. ● QUEUED - An ACD call has seized the trunk, is queued to a split/skill, and is waiting for an agent to become available. ● CONN - The caller and an agent are connected on a call. ● DABN - The caller has abandoned the call. ● FBUSY - The caller receives a forced busy signal. ● FDISC - The caller receives a forced disconnect. ● HOLD - The agent has put the caller on hold. ● MBUSY - The trunk is out of service for maintenance purposes. ● RINGING - The call is ringing at an agent's voice terminal. ● UNKNOWN - CMS does not recognize the trunk state.
Queue Type	To change the queue type default names, enter the new descriptive name next to MAIN or BACKUP. The name entered here is displayed instead of the default value in real-time reports containing the trunk QUETYPE database item. (Standard reports do not contain this item). ● MAIN - The call is queued to a split/skill as a result of a queue to main split/skill vector command. ● BACKUP - The call is queued to a split/skill as a result of a vector command other than queue to main split/skill.

Field	Description
Call Priority (Non-Vectoring)	To change the call priority (non-vectoring) default names, enter the new descriptive name next to YES or NO. The name entered here is displayed instead of the default name in real-time reports containing the trunk PRIORITY database item. (Standard reports do not contain this item.) ● YES - The call occupying the trunk has priority entering the trunk. ● NO - The call occupying the trunk does not have priority entering the split.
Call Priority (Vectoring)	To change the call priority (vectoring) default names, enter the new descriptive name next to LOW, MED, HIGH, or TOP. The priority level at which calls on a trunk queue to a split/skill is specified using either the queue to split/skill or check split/skill command in the vector that is processing the call. The name entered here is displayed instead of the default name in real-time reports containing the trunk PRIORITY database item. (Standard reports do not contain this item). ● LOW - The call occupying the trunk is queued to a split or skill at the lowest priority level. ● MED - The call occupying the trunk is queued to a split or skill at the second lowest priority level. ● HIGH - The call occupying the trunk is queued to a split or skill at the second highest priority level. ● TOP — The call occupying the trunk is queued to a split or skill at the highest priority level.
Call Direction	To change the call-direction default names, enter the new descriptive word next to IN or OUT. ● IN - The trunk is on an incoming call. ● OUT - The trunk is on an outbound call.
All Trunks Busy	To change the all trunks busy default names, enter the new descriptive word next to YES or NO. ● YES - All trunks in the trunk group are busy (in use or maintenance). ● NO - Not all trunks in the trunk group are busy.

Using the Dictionary to name contact center entities

VDN names

From the **VDNs** window, you can assign names to VDNs so that names instead of numbers appear on VDN reports and VDN administration windows. VDN names should reflect the configuration of your ACD and convey one or more of the following:

- The VDN's purpose; for example, sales or customer service.
- The VDN destination vector; for example, FBusy-Nat.Accts.
- The trunk groups assigned to the VDN; for example, WATS 800-331-1111.

Contents

This section contains the following procedures:

- [Adding a VDN name](#) on page 181
- [Viewing a VDN name](#) on page 182
- [Listing all VDN names](#) on page 183
- [Modifying a VDN name](#) on page 184
- [Deleting a VDN name](#) on page 185

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view the name that is assigned to a VDN, you need *read* permissions for the Dictionary subsystem and for the VDN.
- To add, delete, or modify the name that is assigned to a VDN, you need *write* permissions for the Dictionary subsystem and for the VDN.

Before you begin

The following items should be read and understood before working with VDN names in the Dictionary:

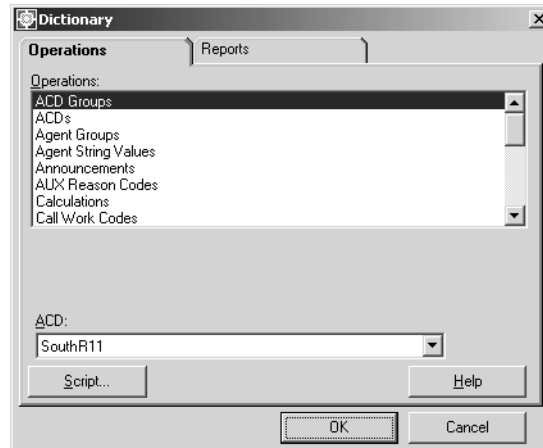
- The **VDNs** window is available only if the Call Vectoring feature is installed and activated on your switch.
- VDNs must be created on the switch and assigned for measurement via *CMS*.
- To get a list of VDNs that can be named, run the vector configuration report. While all VDNs can be named, it is recommended that only those VDNs that are used are then named instead of all of the VDNs. This will conserve system resources.
- If you make changes to the VDN names when a report that includes those VDNs is running, you must exit the report and rerun it to see the changes.
- When naming VDNs, you may want to be consistent with the names given to VDNs by your switch administrator.
- If a name is assigned to a VDN, it will appear on VDN reports and windows instead of the VDN number.

Adding a VDN name

To add a name for a VDN in the Dictionary:

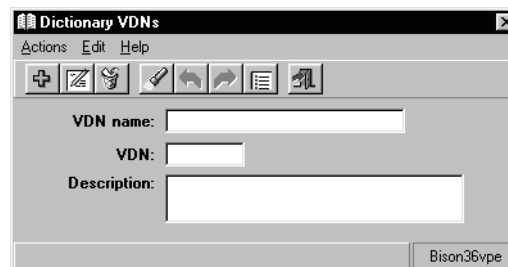
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **VDNs**.
3. In the **ACD:** field, enter the ACD on which you want to name a VDN.
4. Select **OK**.

*Supervisor displays the **Dictionary VDNs** window.*



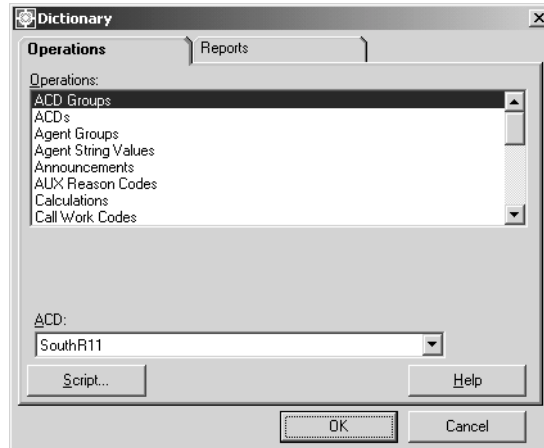
5. In the **VDN name:** field, enter the name of the VDN.
6. In the **VDN:** field, enter the number of the VDN.
Any additional information about the VDN, can be entered in the **Description:** field.
Only 50 or fewer characters can be entered in this field.
7. From the **Actions** menu, select **Add**.

Viewing a VDN name

To view an existing VDN name in the Dictionary:

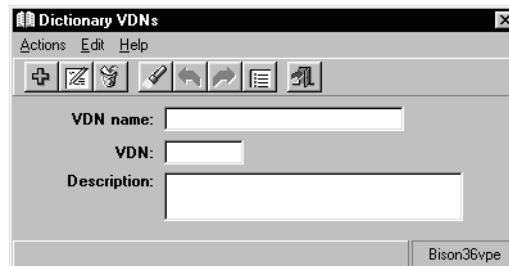
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **VDNs**.
3. In the **ACD:** field, enter the ACD on which you want to view a VDN.
4. Select **OK**.

Supervisor displays the **Dictionary VDNs** window.



5. To find a VDN name to view, only one of the fields requires a VDN to be specified. Perform one of the following actions to specify an existing VDN in the Dictionary:
 - In the **VDN name:** field, enter the name of the VDN.
 - In the **VDN:** field, enter the number of the VDN.
6. From the **Actions** menu, select **Find One**.

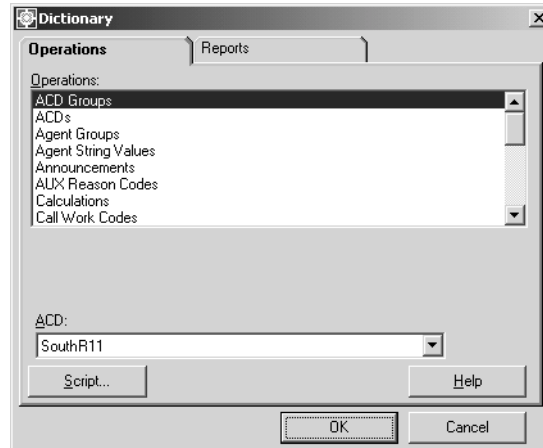
Supervisor retrieves and displays the information for the specified VDN name, if valid.

Listing all VDN names

To list all defined VDN names in the Dictionary:

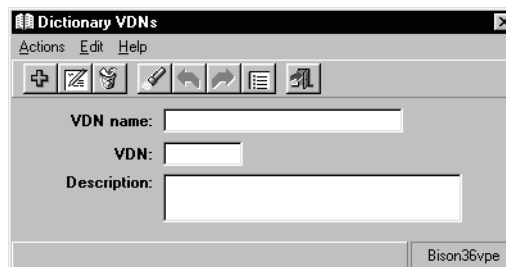
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **VDNs**.
3. In the **ACD:** field, enter the ACD on which you want to view all the VDNs.
4. Select **OK**.

*Supervisor displays the **Dictionary VDNs** window.*



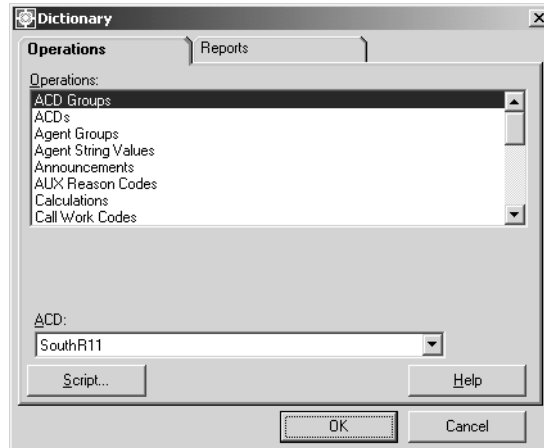
5. From the **Actions** menu, select **List All**.

Modifying a VDN name

To modify the name or description of an existing VDN in the Dictionary:

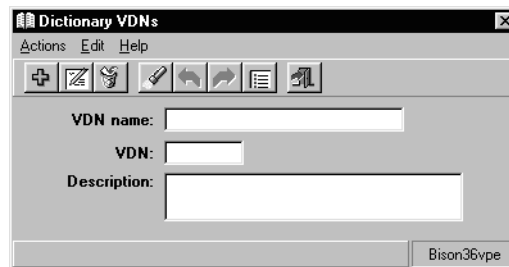
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **VDNs**.
3. In the **ACD:** field, enter the ACD on which you want to modify the name of a VDN.
4. Select **OK**.

Supervisor displays the **Dictionary VDNs** window.



5. To find a VDN name to modify, only one of the fields requires a VDN to be specified. Perform one of the following actions to specify an existing VDN in the Dictionary:
 - In the **VDN name:** field, enter the name of the VDN.
 - In the **VDN:** field, enter the number of the VDN.
6. From the **Actions** menu, select **Find One**.

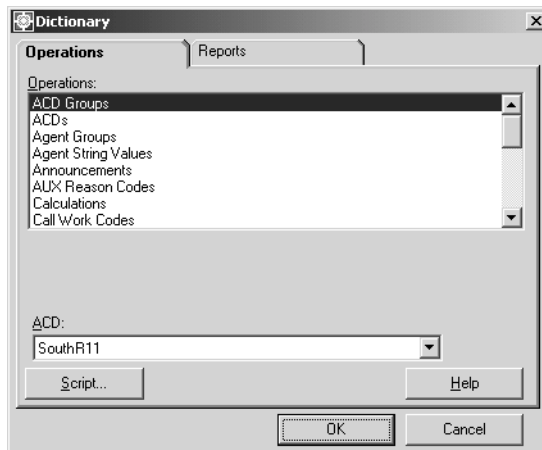
Supervisor retrieves and displays the information for the specified VDN name, if valid.
7. In the **VDN name:** or **Description:** field, make the necessary changes.
8. From the **Actions** menu, select **Modify**.

Deleting a VDN name

To delete the name of a VDN from the Dictionary:

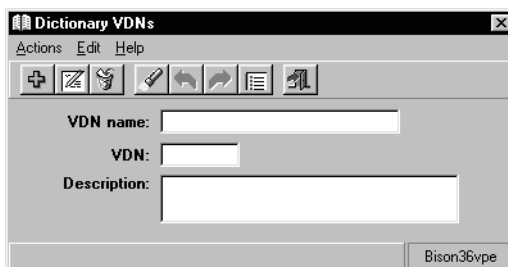
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **VDNs**.
3. In the **ACD:** field, enter the ACD on which the VDN to delete resides.
4. Select **OK**.

*Supervisor displays the **Dictionary VDNs** window.*



5. To find a VDN name to delete, only one of the fields requires a VDN to be specified. Perform one of the following actions to specify an existing VDN in the Dictionary:
 - In the **VDN name:** field, enter the name of the VDN.
 - In the **VDN:** field, enter the number of the VDN.
6. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified VDN, if valid.
7. From the **Actions** menu, select **Delete**.

The name and description for this VDN is removed from the Dictionary.

Using the Dictionary to name contact center entities

Vector names

From the **Vectors** window, you can assign names to vectors so that the names instead of the vector numbers are displayed on vector reports and administration windows. Vector names should reflect the configuration of your ACD and convey one or more of the following:

- The vector's purpose; for example, sales or customer service.
- The VDNs assigned to the vector; for example, vdn2001, vdn3001, and vdn4001.
- The splits or skills to which the vector sends calls; for example, sales1, sales2, AUDIX system.

Contents

This section contains the following topics:

- [Adding a vector name](#) on page 189
- [Viewing a vector name](#) on page 190
- [Listing all vector names](#) on page 191
- [Modifying a vector name](#) on page 192
- [Deleting a vector name](#) on page 193

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view the name that is assigned to a vector, you need *read* permissions for the Dictionary subsystem and for the vector.
- To add, delete, or modify the name that is assigned to a vector, you need *write* permissions for the Dictionary subsystem and for the vector.

Before you begin

The following items should be read and understood before working with vector names in the Dictionary:

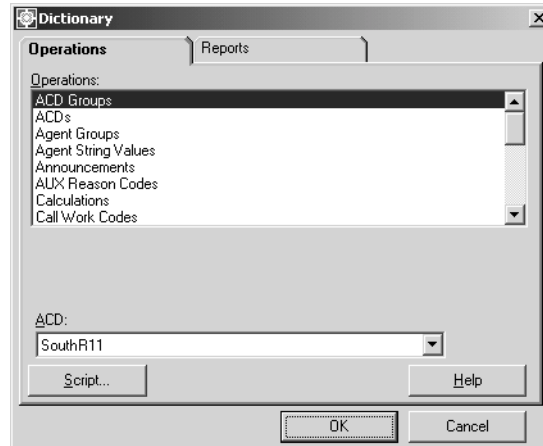
- The **Vectors** window is available only if the Call Vectoring feature is installed and activated on the switch.
- You can assign a name to a vector even if the steps to the vector have not been assigned.
- The number of available vectors depends on the switch type.
- If a name is assigned to a vector, it appears on reports and windows instead of the vector number.
- If you make changes to vector names when a report that includes those vectors is running, you must exit the report and rerun it to see the changes.

Adding a vector name

To add a name for a vector in the Dictionary:

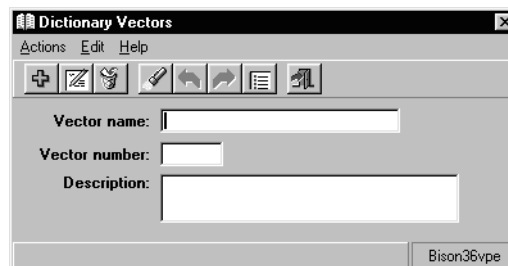
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **Vectors**.
3. In the **ACD:** field, enter the ACD on which you want to name a vector.
4. Select **OK**.

*Supervisor displays the **Dictionary Vectors** window.*



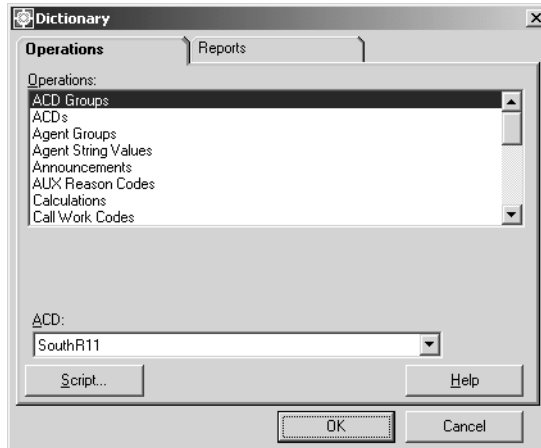
5. In the **Vector name:** field, enter the name of the vector.
 6. In the **Vector number:** field, enter the number of the vector.
- Any additional information about the vector, can be entered in the **Description:** field.
Only 50 or fewer characters can be entered in this field.
7. From the **Actions** menu, select **Add**.

Viewing a vector name

To view an existing name for a vector in the Dictionary:

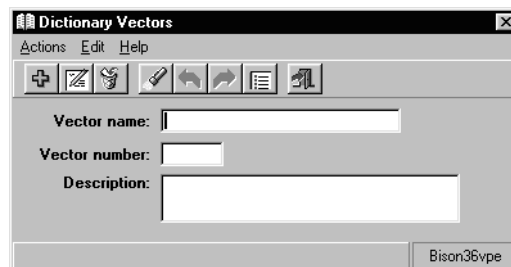
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Vectors**.
3. In the **ACD:** field, enter the ACD on which you want to view a vector name.
4. Select **OK**.

Supervisor displays the **Dictionary Vectors** window.



5. To find a vector name to view, only one of the fields requires a vector to be specified. Perform one of the following actions to specify an existing vector in the Dictionary:
 - In the **Vector name:** field, enter the name of the vector.
 - In the **Vector number:** field, enter the number of the vector.
6. From the **Actions** menu, select **Find One**.

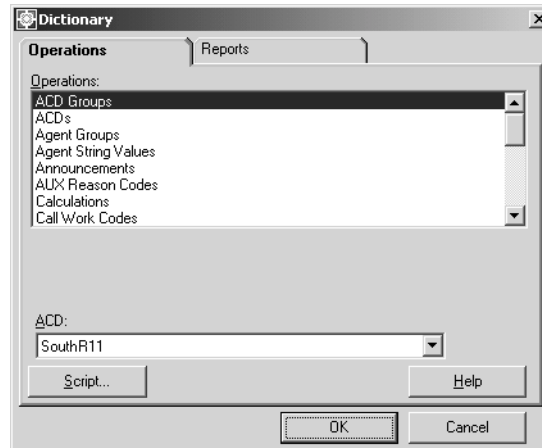
Supervisor retrieves and displays the information for the specified vector, if valid.

Listing all vector names

To list all vector names defined in the Dictionary:

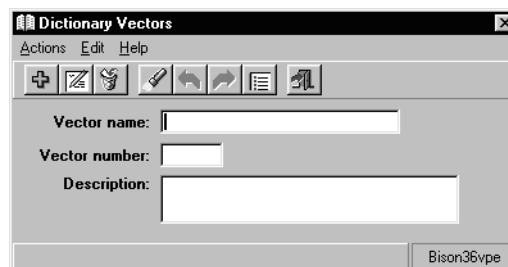
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. In the **Operations:** list, highlight **Vectors**.
3. In the **ACD:** field, enter the ACD on which you want to list all vector names.
4. Select **OK**.

*Supervisor displays the **Dictionary Vectors** window.*



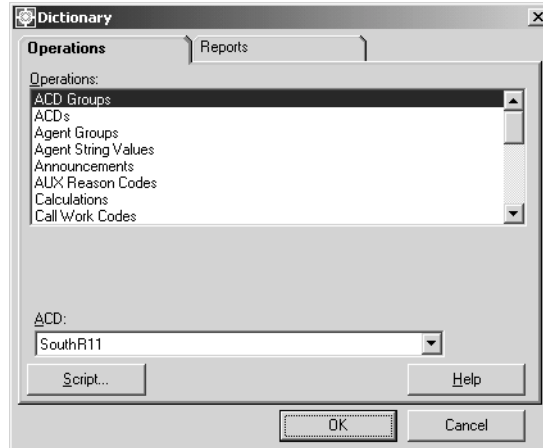
5. From the **Actions** menu, select **List All**.

Modifying a vector name

To change the current name or description of a vector in the Dictionary:

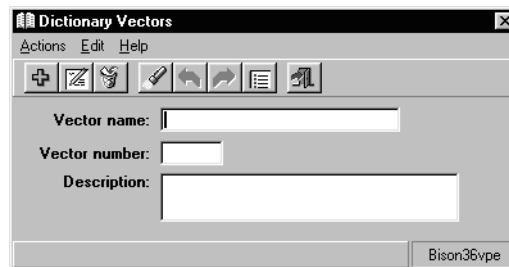
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Vectors**.
3. In the **ACD:** field, enter the ACD on which you want to modify a vector name.
4. Select **OK**.

Supervisor displays the **Dictionary Vectors** window.



5. To find a vector name to modify, only one of the fields requires a vector to be specified. Perform one of the following actions to specify an existing vector in the Dictionary:
 - In the **Vector name:** field, enter the name of the vector.
 - In the **Vector number:** field, enter the number of the vector.
6. From the **Actions** menu, select **Find One**.

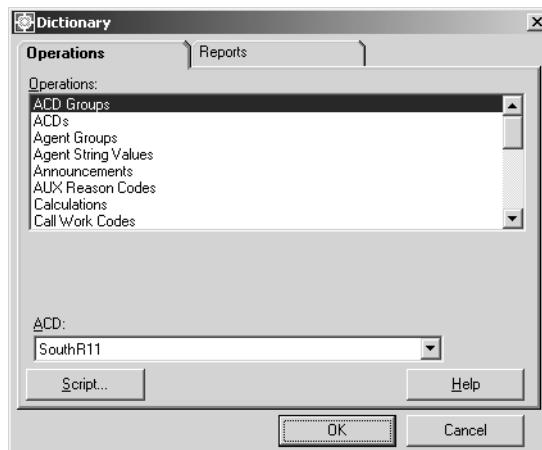
Supervisor retrieves and displays the information for the specified vector, if valid.
7. In the **Vector name:** or **Description:** field, make the necessary changes.
8. From the **Actions** menu, select **Modify**.

Deleting a vector name

To remove the name for a vector in the Dictionary:

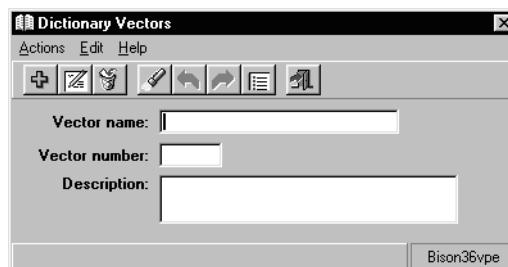
1. From the Controller Window, select **Commands > Dictionary**.

Supervisor displays the **Dictionary** window.



2. In the **Operations:** list, highlight **Vectors**.
3. In the **ACD:** field, enter the ACD on which the vector name to delete resides.
4. Select **OK**.

Supervisor displays the **Dictionary Vectors** window.



5. To find a vector name to delete, only one of the fields requires a vector to be specified. Perform one of the following actions to specify an existing vector in the Dictionary:
 - In the **Vector name:** field, enter the name of the vector.
 - In the **Vector number:** field, enter the number of the vector.
6. From the **Actions** menu, select **Find One**.

Supervisor retrieves and displays the information for the specified vector, if valid.
7. From the **Actions** menu, select **Delete**.

The name for this VDN is removed from the Dictionary.

Using the Dictionary to name contact center entities

Dictionary reports

In the **Dictionary** window, use the **Reports** tab to generate reports on most sections of the Dictionary. These reports can be printed, sent to a file, or displayed on the screen.

Contents

This section contains the following topics:

- [Printing Dictionary reports](#) on page 196
- [Running an agent group members report](#) on page 198

Permissions

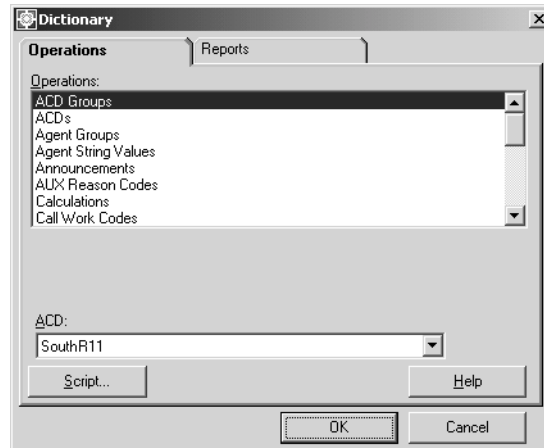
To obtain a report, you need *read* permissions for the Dictionary subsystem.

Printing Dictionary reports

To print Dictionary reports:

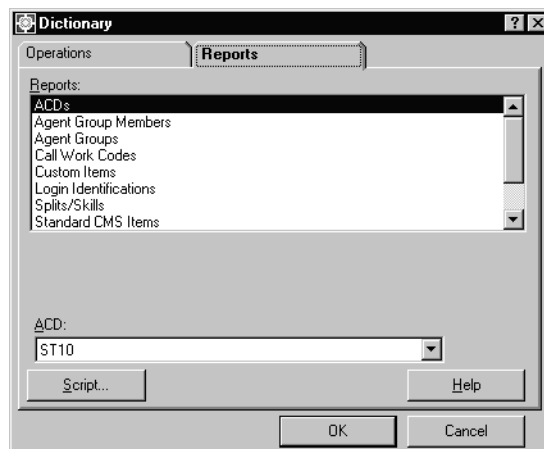
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. Select the **Reports** tab.

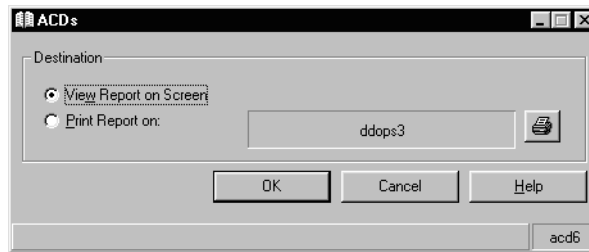
*Supervisor displays the **Reports** window.*



3. In the **Reports** list, select the Dictionary item on which you want to generate a report.

4. Select **OK**.

Supervisor displays a report window.



5. Select one of the following options:

- **View Reports on Screen**
- **Print Report on:**

To send the report to a printer other than the default printer in the report window, select **Print Report on:** and then select the printer button on the right side of the report window. Select the new printer from the **Print** window.

6. Select **OK**.

Depending on the option that you selected, the report is either sent to a printer or displayed on the screen.

The following is an example of screen output:

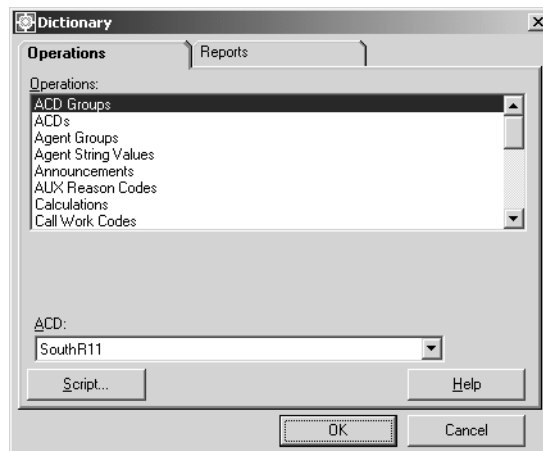
Name	ACD	Description
ST10	1	
ST11	2	
ST12	3	
ST13	4	

Running an agent group members report

As an example, the following procedure describes the steps used to run an agent group members report from the Dictionary:

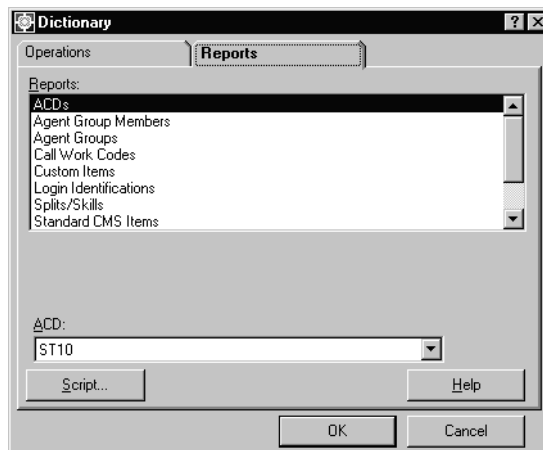
1. From the Controller Window, select **Commands > Dictionary**.

*Supervisor displays the **Dictionary** window.*



2. Select the **Reports** tab.

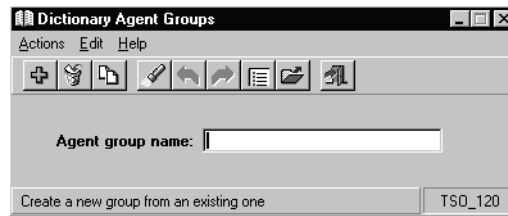
*Supervisor displays the **Reports** window.*



3. In the **Reports** list, select **Agent Group Members**.

4. Select **OK**.

Supervisor displays the **Dictionary Agent Groups** window.



5. In the **Agent group name:** field, enter the name of the agent group, and then press the **Enter** key.
6. Select one of the following options:
 - **View Reports on Screen**
 - **Print Report on:**
7. Select **OK**.

Depending on the option that you selected, the report is either sent to a printer or displayed on the screen.

Using the Dictionary to name contact center entities

Chapter 4: Using reports

This section describes *Supervisor* reports and provides procedures in generating and administrating them.

CMS collects data from ACD activity and stores it in one of the *CMS* databases. The data reflects the activity of your contact center and can be viewed through *CMS* reports that cover such areas as:

- Splits/Skills
- Trunks
- Trunk Groups
- Agents
- Agent Groups
- VDNs
- Vectors

Contents

This section contains the following topics:

- [Background](#) on page 202
- [Choosing a report](#) on page 204
- [Generating a report](#) on page 206
- [Printing a report](#) on page 207
- [Restarting a report](#) on page 209

The procedures are general in scope so as to provide usability for all reports run through the **Reports** subsystem. For more information on specific reports and usage, see the *Avaya CMS Supervisor Installation and Getting Started* and *Avaya CMS Supervisor Reports* manuals.

Background

Reports consist of standard reports, custom reports, and designer reports. Standard reports are shipped as part of the *CMS* system. Custom reports are created by contact center administrators through the *CMS ASCII* interface. Designer Reports are created through *Supervisor*.

The following list displays which interfaces are used in the creation of reports and which ones can be used for viewing these reports:

- Most standard reports can also be viewed through the *CMS ASCII* interface. The exceptions to this are the *Supervisor* integrated reports, reports containing charts, and others.
- Custom reports are created through the *CMS ASCII* interface, but can be viewed through both the *CMS ASCII* interface and *Supervisor*.
- Designer reports can only be created and viewed through *Supervisor*.

See the *Avaya CMS Custom Reports* and *Avaya CMS Supervisor Report Designer User Guide* manuals for more information on creating custom and designer reports.

Types of reports

The following types of reports can be generated:

- Standard real-time
- Standard historical
- Standard integrated
- Custom (*CMS*) real-time
- Custom (*CMS*) historical
- Designer (*Supervisor*) real-time
- Designer (*Supervisor*) historical
- Designer (*Supervisor*) integrated
- Exceptions
- Forecast (available as an add-on feature)

What reports summarize

Use *CMS/Supervisor* reports to summarize the status of:

- Any measured subset of the ACD, including agents, splits/skills, trunks/trunk groups, VDNs, vectors, call work codes, and call records
- Agent administration
- Contact center administration
- Dictionary
- Exceptions
- Maintenance

Choosing a report

Most reports are found in the **Reports** subsystem found under the **Commands** item on the menu bar. This section provides the general procedure for running reports in this subsystem. Reports may be run by selecting the **Real-Time**, **Historical**, or **Integrated** tab from the **Select a Report** window.

Other reports are available on the **Reports** tab found on the main window of the following subsystems:

- Dictionary
- Exceptions
- Agent Administration
- Call Center Administration
- Maintenance

The reports for the subsystems listed above are not available in the main Reports interface.

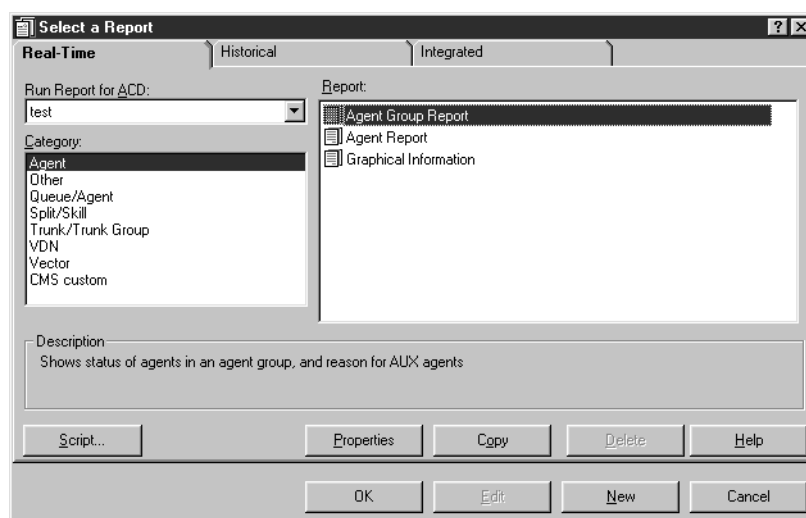
Procedures on running reports through the areas other than the **Reports** subsystem are covered in their respective chapters. The following procedures provide information on working with reports from the **Reports** subsystem.

Procedure

To run a report from the **Reports** system.

1. Select **Commands > Reports** from the Controller Window.

Supervisor displays the **Select a Report** window.



2. Determine the type of report to be run by select the appropriate tab: **Real-Time**, **Historical**, or **Integrated**.
3. From the **Run Report for ACD:** field, select the ACD to serve as the data source for the report.
4. Select a category from the **Category** field.
5. Select a report from the **Report** field.
6. Select **OK**.

Supervisor displays a report input window similar to the example below. The input fields vary according to the report and its type.

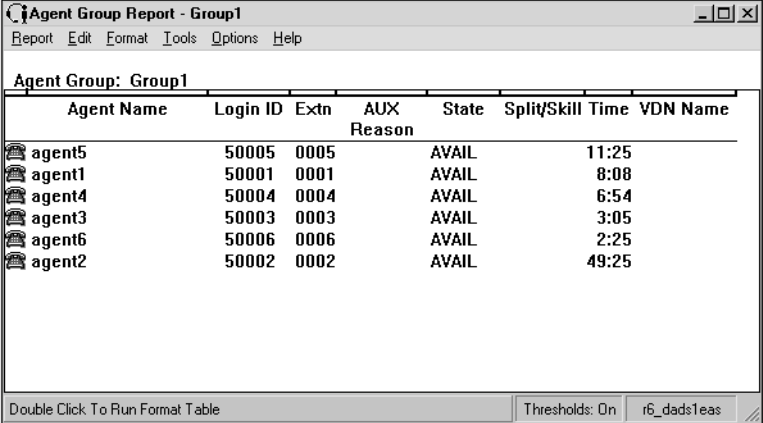
To continue this process, see the following section, [Generating a report](#).

Generating a report

Once a report type has been selected by following the previous procedure, information must be entered to define the parameters of the report.

1. To specify an object for the report, such as an agent, vector, VDN, and so forth, perform one of the following actions:
 - Manually enter the name or number of the object for the report.
 - Select the **Browse** button to view available objects.
 - Select the **History** list to select an input used previously.
2. Select **OK** to run the report with the specified object.

The type of report selected is displayed with information related to the object that was specified.



The screenshot shows a window titled "Agent Group Report - Group1" with a menu bar (Report, Edit, Format, Tools, Options, Help). Below the menu bar, it says "Agent Group: Group1". The main area contains a table with the following data:

Agent Name	Login ID	Extn	AUX Reason	State	Split/Skill Time	VDN Name
agent5	50005	0005		AVAIL	11:25	
agent1	50001	0001		AVAIL	8:08	
agent4	50004	0004		AVAIL	6:54	
agent3	50003	0003		AVAIL	3:05	
agent6	50006	0006		AVAIL	2:25	
agent2	50002	0002		AVAIL	49:25	

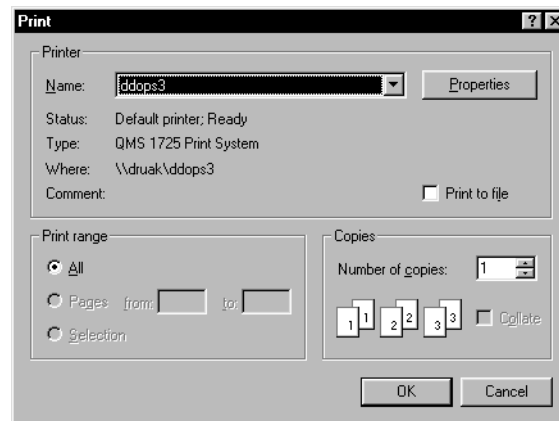
At the bottom of the window, there is a status bar with the text "Double Click To Run Format Table" on the left and "Thresholds: On r6_dads1eas" on the right.

Printing a report

Once a report has been generated, a Real-Time or Integrated report can be printed. To print a Real-time or Integrated report:

1. Select **Reports > Print** from the menu bar of the report window.

Windows displays the **Print** window opens.



2. Select the printer and options for this report:
 - Select the printer destination by selecting a printer in the **Name** drop-down list box.
 - Select the number of copies of this report to be printed in the **Number of copies** field.
 - Use the **Properties** button to change options specific to the selected printer. This could include image resolution, orientation, and other options.
3. Select **OK**.

The report is printed based on the options selected.

To print a report to a file on the local system, place a check mark in the **Print to file** check box. Set the printer to *Generic/Text Printer*. Failing to select the *Generic/Text Printer* will cause the **Print to file** check box to be ignored and the report is sent to the selected printer.

Printing a Historical report

Once a report has been generated, a Historical report can be printed using two different methods:

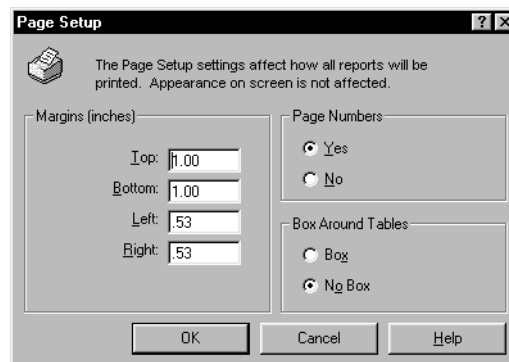
1. Follow the steps listed in [Generating a report](#) on page 206 and [Printing a report](#) on page 207.
2. When specifying an object, such as an agent, vector, VDN, and so forth, for a report, the **Destination** group of controls can be seen on the lower half of the dialog box. This allows the report to be viewed on the screen or sent to the printer specified. Selecting the printer button in this area will allow specification of a different printer as well as setting all printer and print job options. This button is not available on Real-time and Integrated reports.

Changing the print setup

Once a report has been printed to the screen, the settings for margins, page numbering, and table borders can be altered. To change the current print setup:

1. Select **Reports > Page Setup** from the report window menu bar.

Supervisor displays the **Page Setup** dialog box.



2. Select the settings for page margins, page numbers, and table borders, as needed.
3. Select **OK** to save these settings. The new settings will be applied to the next report that is printed.

Restarting a report

 Important:

Work-state drill-down reports cannot be restarted.

To restart a report once it is running on the screen, perform the following steps:

1. Select **Restart** from the **Report** menu.

The report window closes and the input window that is used to specify the object of the report is displayed again.

2. Enter the requested information in the input window and select **OK**.

Supervisor displays the report window with the newly updated information for the selected object.

Chapter 5: Scripting CMS operations

Scripting enables the automation of tasks such as running reports, exporting report data, and other operations.

Scripts can be used to automate several *CMS* tasks, such as:

- Running reports
- Exporting data from reports
- Performing **Dictionary** operations and reports
- Administering **Exceptions** and requesting Exception reports
- Performing **Agent Administration** operations
- Performing **Call Center Administration** operations and reports
- Performing **System Setup** operations
- Performing **Maintenance** operations and viewing the Error Log
- Administering **User Permissions**

Each script is designated to be either interactive or automatic, as defined below:

- An interactive script runs in the current *Supervisor* session and the actions display on the PC. If the *Supervisor* session is disconnected from the *CMS* server, the script will not run.
- An automatic script launches a new *Supervisor* session that logs into *CMS* and runs the requested tasks as a background process. Script actions are not displayed on the screen. Although *Supervisor* provides the ability to create automatic scripts, a third-party scheduling program must be used in order to run the scripts automatically on a regular schedule.

Contents

This section contains the following topics:

- [Creating scripts](#) on page 213
- [Scripting other Supervisor operations](#) on page 225
- [Error and warning messages](#) on page 231

Before you begin

Before a script can be run through *Supervisor*, the following conditions must be met:

- The username associated with an automatic script must be assigned all the permissions required for all operations specified by the script.
- No more than four scripting *Supervisor* sessions, including background sessions initiated by automatic scripts, can be run simultaneously on a PC.
- The PC must be running at the time when an automatic script is scheduled to run.
- Once a script is created, it can be started by accessing the script file directly from a Microsoft *Windows* Explorer window.
- Due to PC-related issues, it is strongly recommended that mission-critical activities, such as backups, be scheduled through Timetables on the *CMS* server. For more information about Timetable scheduling, see [Creating and scheduling a timetable](#) on page 722.

Creating scripts

This section describes how to create interactive or automatic scripts used to run reports. Interactive and automatic scripts used to run reports have the following differences:

- An *interactive* script runs in the current *Supervisor* session and the actions display on the PC. If the Supervisor session is disconnected from the CMS server, the script will not run.
- An *automatic* script launches a new *Supervisor* session that logs into CMS and runs the requested tasks as a background process. Script actions are not displayed on the screen. Although *Supervisor* provides the ability to create automatic scripts, a third-party scheduling program must be used in order to run the scripts automatically on a regular schedule.

Scripts can be created and accessed through the **Scripts** button found on several dialog boxes. Dialog boxes containing the **Scripts** button can be accessed through the following menu selections:

- **Commands > Reports**
- **Commands > Dictionary**
- **Commands > Exceptions**
- **Commands > Agent Administration**
- **Commands > Call Center Administration**
- **Tools > System Setup**
- **Tools > Maintenance**
- **Tools > User Permissions**

Scripts can also be accessed from agent administration windows or once a report is run. The **Script** button is also available when you use any other *Supervisor* command or tool that allows you to add or change objects.

Contents

This section contains the following topics:

- [Accessing the script options](#) on page 215
- [Creating an interactive report script](#) on page 217
- [Creating an automatic report script](#) on page 218
- [Creating a script to export report data](#) on page 220
- [Creating a script to export report data as HTML](#) on page 222

Accessing the script options

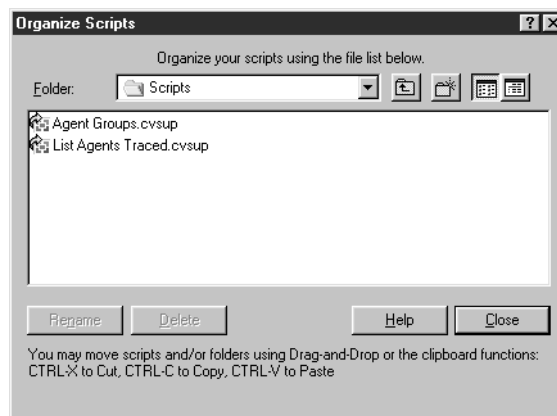
Before you create scripts, you should be aware of the different options and behaviors available for scripts.

Steps

To access script options:

1. Select **Tools > Options** from the menu bar on the Controller Window.

Supervisor displays the **Options** dialog box.



2. Select the **Scripting** tab.

The **Scripting** dialog provides the fields required to set the scripting options, which includes:

- **User ID** - This read only ID allows automatic scripts to make their connection to the CMS server. The login ID and password are not validated until an automatic script is run.
- **Logging Level** - The extent to which script-related activities and outputs are logged, according to the following criteria:
 - **Minimum** - Logged activities are limited to those errors and messages from *Supervisor* which would otherwise be displayed when the scripts are run manually.
 - **Normal** - Logged activities include those recorded at the **Minimum** setting, plus the following information: task start time; task end time; name of the script.
 - **Maximum** - Logged activities include all those recorded at **Minimum** and **Normal** settings, plus additional error messages which may be useful for debugging a script.

Scripting CMS operations

- **Log File: Path** - Allows you to specify a non-default file directory path. Selecting the folder icon to the right of this field also lets you browse the file system to select a log file directory.
- **Log File: Size** - Allows you to specify the size of the log file before it rolls over and begins to overwrite itself.

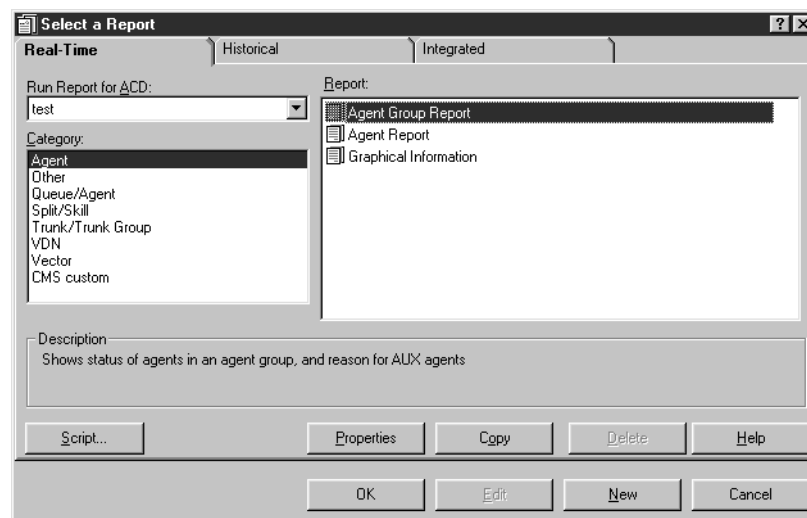
Creating an interactive report script

Steps

To create an interactive script used to run a report:

1. Select **Commands > Reports** from the Controller Window menu bar.

Supervisor displays the **Reports** window.



2. Select the tab associated with the type of report you want to run (Real-Time, Historical, or Integrated), and then highlight the report from the categories and listings which are displayed.

3. Select the **Script** button on the report selector window.

Supervisor displays the **Save as Script** window.

4. Select a directory and file name for the script and select **Save**.

Supervisor closes the **Save as Script** window and returns you to the report selector window.

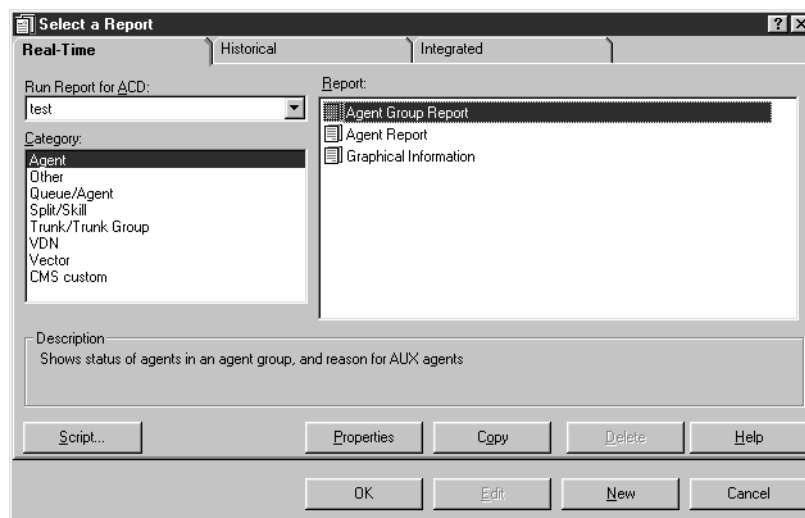
Creating an automatic report script

Steps

To create an automatic script used to run a report:

1. Select **Commands > Reports** from the Controller Window menu bar.

Supervisor displays the **Reports** window.



2. To select a report for scripting, select the appropriate report type from the dialog box tabs (Real-Time, Historical, or Integrated), highlight the report, and select **OK**.

Supervisor displays the input window for the selected report.

3. Enter the appropriate data in the input window and run the report by selecting **OK**.

Supervisor displays the selected report.

Login ID	Extn	AUX Reason	State	Split/Skill	Time	VDN Name
44121	42121		RINGING	52	:21	
44127	42127		RINGING	53	:22	
44123	42123		RINGING	53	:28	
44124	42124		RINGING	53	:19	
44125	42125		RINGING	53	:34	
44126	42126		RINGING	51	:38	

Note:

If a historical report was selected, set the **Destination** controls to **View Report on Screen**.

4. In the dialog displayed for the report, select **Reports > Script** from the main menu.

Supervisor displays the **Save as Script** window.

5. Select a directory and file name for the script. The file type is set to *automatic* by default.
6. Select **Save**.

Executing this automatic script causes the report to run with the inputs provided during its creation.

Creating a script to export report data

This procedure describes how to export report data to the clipboard or a file.

Steps

To create a script that exports report data to the clipboard or a specified file:

1. Run a report and display it to screen. See [Choosing a report](#) on page 204 for this procedure.

Supervisor displays the window for the selected report.

2. From the **Edit** menu of the report window, select one of the following actions:

- **Export Chart Data**
- **Export Table Data**
- **Export All Data**

The data export dialog box is displayed. The dialog that is displayed will vary according to which export option is selected.



Some of these options can also be selected from a pop-up menu by performing a right-click in the report window.

3. Set the appropriate options in the data export dialog, and then select the **Script** button.



Important:

Do *not* select **OK** after the options are selected.

Supervisor displays the **Save as Script** window.

4. Select a directory and file name for the script, and set the file type to either **Interactive** or **Automatic**.
5. Select **Save**.

Creating a script to export report data as HTML

This procedure describes how to export a *Supervisor* report to an HTML file.

Steps

To create a script that saves a report as an HTML file:

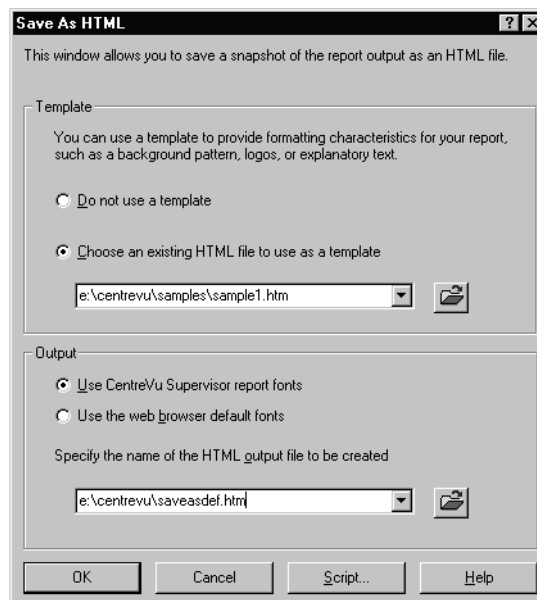
1. Select a report that you want to export as HTML and display it to the screen.

For more information, see [Choosing a report](#) on page 204.

Supervisor displays the report window.

2. From the menu bar of the report window, select **Reports > Save As HTML**.

Supervisor displays the **Save As HTML** window.



3. Select the appropriate option from the **Template** group.

A template can be used to provide company logos, background color, specific fonts, or surrounding text to the HTML file. If you do not select a template, the export process generates basic HTML tags to display the report.

Supervisor provides you with several templates that can be found in the **\samples** directory of the main *Supervisor* directory.

4. In the **Output** field, select a name for the HTML file you are creating. To save the file in a directory other than the current directory, specify a full file path, such as **c:\temp\myrpt.htm**. You may also use the browse button located to the right of this field to navigate to a target directory.

5. Select the **Script** button.

Supervisor displays the **Save as Script** window.

6. Select a directory and file name for the script, and set the file type to either **Interactive** or **Automatic**.
7. Select **Save**.

If there are charts associated with the file, they are converted into .GIF files. After the HTML is saved, you can move or copy it and all associated graphics files to a web server directory for viewing on the Internet or an Intranet.

Scripting other Supervisor operations

This section provides information on the procedures used to create and save scripts for actions not associated with reports. These include:

- Displaying an input window for actions, not reports, requiring data entry when the script is run.
- An **Add**, **Modify**, or **Delete** action

Contents

This section contains the following topics:

- [Scripting an input window](#) on page 226
- [Scripting an action](#) on page 228
- [Organizing scripts](#) on page 230

Scripting an input window

This procedure describes how to create a script that displays an input window for a specific, non-report operation. Executing the script displays the input window for the operation selected when this script was created.

Actions associated with the following functions can be captured in a script:

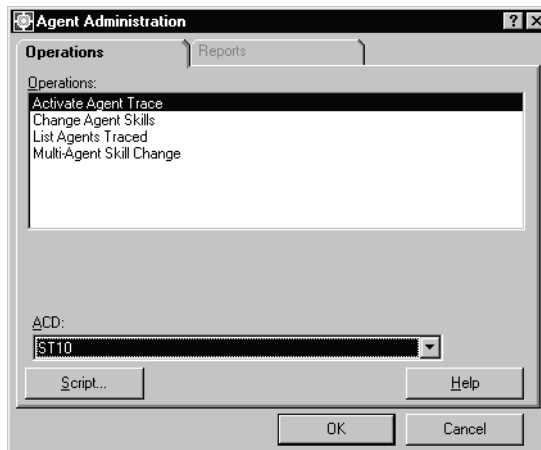
- Dictionary
- Exceptions
- Maintenance
- System Setup
- Agent Administration
- Call Center Administration

Steps

To create a script for an input window:

1. Select the necessary item from the **Commands** menu on the Controller Window.

Supervisor displays the associated selector window for the item selected.



! Important:

Do not double-click the option or press the **Enter** key when an operation is highlighted or the action will be initiated and the script recording will be aborted.

2. Highlight the operation to be made into a script from the **Operations:** list on the **Operations** tab of the selector window and then select the **Script** button in the selector window.

Supervisor displays the **Save as Script** window.

The file type is set to **Interactive** by default.

3. Complete the **Save as Script** window by entering a file name and folder location and then select **Save** when finished.

Supervisor displays an acknowledgment message to indicate that the script has been saved.

4. Select the **OK** button on the acknowledgment message box.

Supervisor closes the **Save as Script** window and the selector window remains open.

Scripting an action

Use this procedure to create a script that results in the execution of an action. Running the saved script will cause an **Add, Modify, Delete, or No action** action to be performed for the selected operation.

Steps

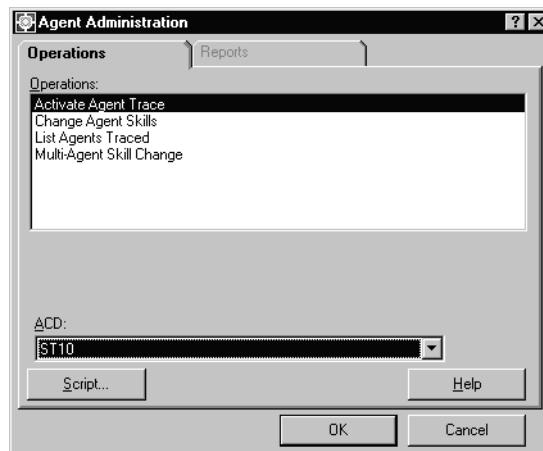
To script a *Supervisor* action:

1. Select the necessary item from the **Commands** menu on the Controller Window. Valid items for scripting an action include:

- Dictionary
- Exceptions
- Maintenance
- System Setup
- Agent Administration
- Call Center Administration

Supervisor displays the selector window associated with the selected item.

2. Highlight the operation to be made into a script from the **Operations:** list on the **Operations** tab of the selector window.

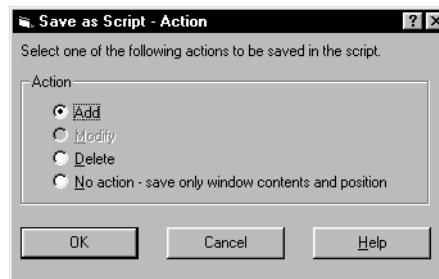


3. Select the **OK** button.

Supervisor displays the input window for the selected operation.

4. Select **Actions > Script** from the menu bar of the input window. If none of the valid scriptable actions, **Add**, **Modify**, or **Delete**, are present, you cannot select **Script**.

Supervisor displays the **Save as Script - Action** window.



5. Select the action to be performed by the script.
6. Select the **OK** button.

Supervisor displays the **Save as Script** window.

Note:

If the **Cancel** button is selected, *Supervisor* dismisses this window and displays the input window without saving an action.

7. In the **Save as Script** window, select a file folder location and file name.
8. Specify the script type as either **Automatic** or **Interactive**.
9. Select **Save**.

Supervisor displays an acknowledgment message box stating that the script has been saved.
10. Select the **OK** button on the acknowledgment message box
Supervisor displays the **Save as Script - Action** window.

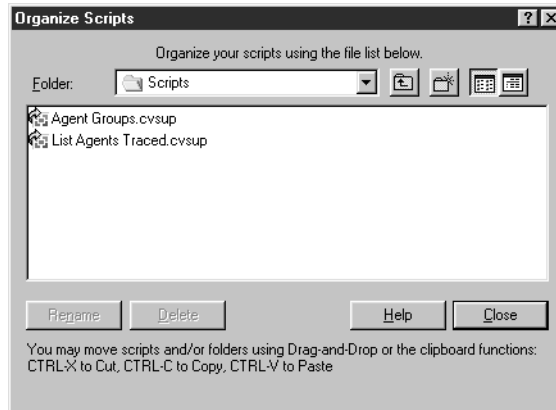
Organizing scripts

The **Organize Scripts** window provides a simple file management interface which allows you to rename, delete or move script files.

To organize existing *Supervisor* scripts:

1. Select **Scripts > Organize Scripts...** from the menu bar on the Controller Window.

Supervisor displays the **Organize Scripts** window.



2. Perform actions on the scripts as needed. This can include renaming, deleting, and moving.
3. When you are finished organizing scripts, select **Close** to exit the **Organize Scripts** window.

Error and warning messages

This section lists possible error messages which may be encountered when running scripts and describes their associated causes and possible solutions:

Message	Reason	Solution
This script will not run unless a <i>CMS</i> login ID and password have been specified.	The <i>CMS</i> login ID and password have not been set on the Scripting tab of the Controller Options window.	Specify a login ID and password on the User Information window.
Automatic scripts are set to run with the permissions of another user of the PC.	The User Information window designates the other user as the owner of automatic scripts.	You can change the permissions via the login information on the Scripting tab of the Options window for the Controller Window. The change will apply to subsequent automatic scripts that are run on the PC.
(Action) <i>Supervisor</i> displays the Save as Script: Add or Replace window.	The file already exists.	Select one of the following actions at the bottom of the window: ● Add (default) - Adds the new script to the end of the existing script ● Replace - Deletes the existing script and create a new script file ● Cancel - Closes the Add or Replace window and returns to the Save as Script window ● Help - Displays the help topic for the current window.

Chapter 6: Administering contact center agents

This section provides information on using the **Agent Administration** window.

The items on the **Agent Administration** menu vary depending on the type of switch that *Call Management System (CMS)* is connected to and the features that are activated on the switch. These procedures include instructions for administering agents in an Automatic Call Distribution (ACD) with and without the Expert Agent Selection (EAS) feature.

Contents

This section contains the following topics:

- [Starting or stopping an agent trace](#) on page 234
- [Viewing current agent trace states](#) on page 237
- [Listing agents traced](#) on page 239
- [Changing agent skills](#) on page 241
- [Changing skills for multiple agents](#) on page 248
- [Changing extension split assignments](#) on page 252
- [Moving extensions between splits](#) on page 255
- [Running a split members report](#) on page 258

Starting or stopping an agent trace

This section provides the procedure for starting and stopping the tracing of agents. Tracing an agent records the activities of the agent, state changes, and time when these events occurred. The agent trace report displays this information when it is run. The agent trace report can help you to evaluate how well agents use their time.

Before you begin

The following items should be read and understood before working with agent traces:

- Traces can be activated for a maximum of 400 agents at a time across all ACDs from one CMS server. This maximum does not take into account whether or not the agents are logged in. It also applies to the number of agents who are administered and traced by one server across all ACDs. To avoid compromising performance, activate only the traces that you need.
- A maximum of 500,000 agent trace records can be stored. The oldest record is discarded and overwritten by the newest record when the file reaches the allocated maximum number of records.
- Turning a trace off does not delete the trace records for that agent. Agent trace records are overwritten automatically when the trace file reaches the maximum number of allocated records.
- The settings in the **Data Storage Allocation** window determine the maximum number of agent trace records that CMS can record. See [Data Storage Allocation](#) on page 533 for more information on this window.
- Starting and stopping agent traces requires that the Data Collection feature is currently activated.
- An agent trace must be started before the Agent Trace report can be run.
- Scripts can open and use the **Activate Agent Trace** window. You can also schedule the script. See [Chapter 5: Scripting CMS operations](#), for more information on scripting.
- The **Activate Agent Trace** window can be set on a timetable. See [Chapter 13: Using timetables and shortcuts](#), for more information.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

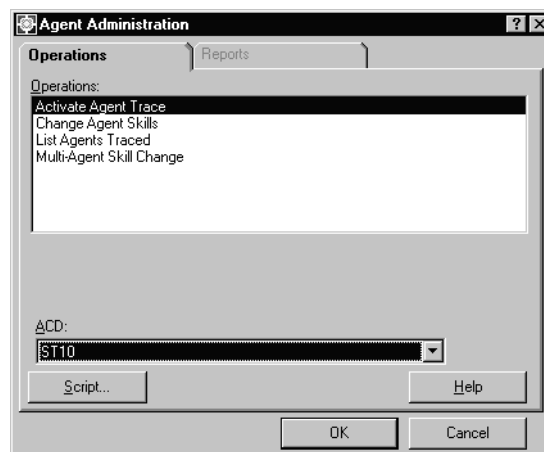
- To start or stop an agent trace, the user ID used to log in to this *Supervisor* session requires *write* permission for the Agent Administration subsystem.
- To view an agent trace report, the user ID used to log in to this *Supervisor* session requires *read* permission for the Reports subsystem.

Steps

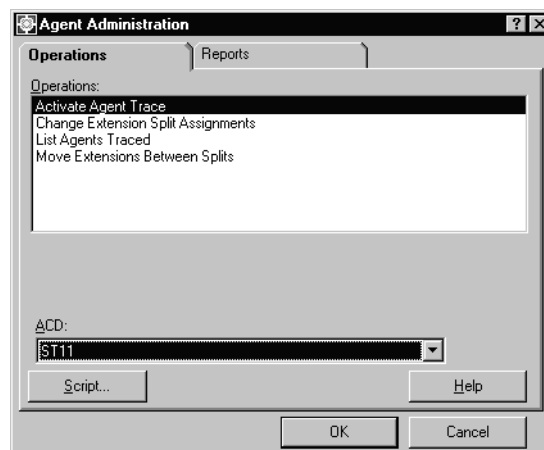
1. From the Controller Window, select **Commands > Agent Administration**.

Supervisor displays the **Agent Administration** window.

On MultiVantage systems with EAS:



On MultiVantage systems without EAS:



2. In the **Operations:** list, highlight **Activate Agent Trace**.

3. In the **ACD** drop-down list, select the ACD on which the agent trace will be run or is currently running.
4. Select **OK**.

Supervisor displays the **Activate Agent Trace** window.



5. In the **Agent names or logids:** field, enter the names or login IDs of the agents who are to be traced or are being traced.

This field can accept multiple values. Multiple values must be separated by a semicolon (;).

Using the Browse button to the right of this field will only display those agents that have synonyms assigned to them through the Dictionary.

6. Perform one of the following actions for the **Agent trace:** options:

- To start an agent trace, select **On**.
- To stop an agent trace that is currently running, select **Off**.

7. Select **Actions > Modify** from the menu bar to start or stop the agent trace.

The status bar displays **Working** and then, if successful, displays **Successful** when the operation finishes.

Viewing current agent trace states

This section provides the procedure for viewing all agent traces that are set to either **On** or **Off**.

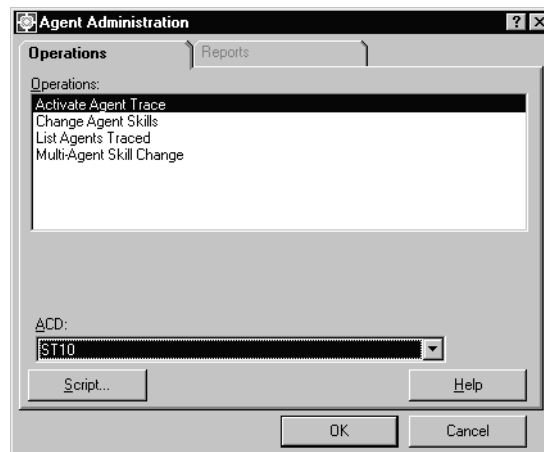
Steps

To view all **On** or **Off** agent traces:

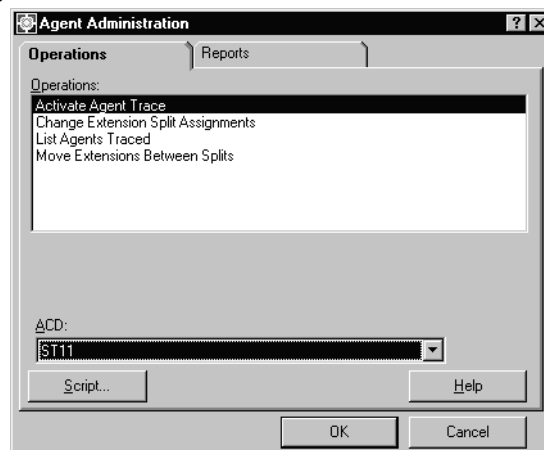
1. From the Controller Window, select **Commands > Agent Administration**.

Supervisor displays the **Agent Administration** window.

On MultiVantage systems with EAS:



On MultiVantage systems without EAS:



2. In the **Operations:** list, highlight **Activate Agent Trace**.

Administering contact center agents

3. In the **ACD** drop-down list, select the ACD on which the agent trace will be run or is currently running.
4. Select **OK**.

Supervisor displays the **Activate Agent Trace** window.



5. Ensure that the **Agent names or logids:** field is blank.
6. In the **Agent trace:** options, select the state to view:
 - **On** - Displays all currently active agent traces.
 - **Off** - Displays all disabled agent traces.
7. From the menu bar, select **Actions > List All**.

Supervisor displays a window with a list of all agents who are currently in the selected trace state.

Listing agents traced

This section provides the procedure for listing agents and dates for which agent trace data is available on reports. As with most operations, it is possible to run these operations through scripts and timetables. For more information on scripts and timetables, see [Chapter 5: Scripting CMS operations](#) and [Chapter 13: Using timetables and shortcuts](#), respectively.

Before you begin

To view data through this operation, an agent trace must be activated for one or more agents. Also, agents for whom traces are activated must log in so that CMS creates agent trace records.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

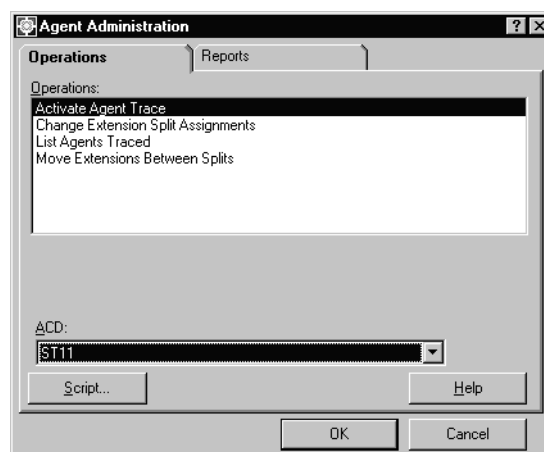
- To list all agents traced, the user ID used to start this *Supervisor* session must have *read* permission for the Agent Administration subsystem.

Steps

To list all agents with trace data:

1. From the Controller Window, select **Commands > Agent Administration**.

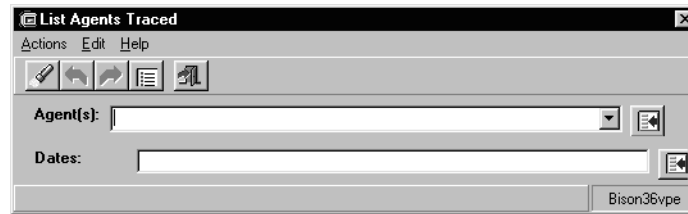
Supervisor displays the **Agent Administration** window.



2. In the **Operations:** list, highlight **List Agents Traced**.

3. In the **ACD:** field, select the ACD for which agents being traced will be listed.
4. Select **OK**.

Supervisor displays the **List Agents Traced** window.



Note:

The procedure for viewing agent trace records varies according to the information that you enter in the fields of the **List Agents Traced** window. The results for listing agents traced relies on the entries made in the **Agent(s):** field, the **Dates:** field, or a combination of the two. For example, you can specify a small range of agents in the **Agent(s):** field and a date range in the **Dates:** field. This will result in a list of only the specified agents for the date range entered.

5. Use the following descriptions to determine how information is entered in the **Agent(s):** and **Dates:** fields:
 - Use the **Agent(s):** field to specify none, one, or more agents to use in displaying agent trace records.

Leave this field blank to show all agent trace records for the dates entered in the **Dates:** field.

Only those agents with login IDs in the Dictionary can be entered in the **Agent(s):** field.

This field can accept multiple values. Multiple values must be separated by a semicolon (;).
 - Use the **Dates:** field to specify no date, a single date, multiple dates, or a range of dates.

Leave this field blank to show all agent trace records for the agents entered in the **Agent(s):** field.

This field can accept multiple dates or a range of dates. Multiple dates must be separated by a semicolon (;).
 - Leave both the **Agent(s):** and **Dates:** fields blank to have *Supervisor* display all agent trace records.
6. Select **Actions > List All** to display the agent trace records that match the information that you entered in the **Agent(s):** and **Dates:** fields.

Supervisor displays a secondary window listing the dates and agents for which agent trace data is available, sorted by date.

Changing agent skills

Use the **Change Agent Skills** window to configure agent skills on systems with Expert Agent Selection (EAS). Use this feature to perform the following actions:

- View the current skill assignment
- Change the skills of an agent or agent template
- Add agents to an agent template
- Set the skill of an agent or agent template to *primary* or *secondary*
- Set the level of the skill for an agent from 1 to 16

Before you begin

The following items should be read and understood before changing agent skills:

- The **Change Agent Skills** item is only available for ACDs on which EAS is activated.
- When agent skills are changed, the change is made to the MultiVantage system and remains in effect until another change is made through *Supervisor* or the MultiVantage system itself.
- When agent skills are changed, you cannot exit the **Change Agent Skills** window until the ACD responds to the requested agent changes.
- A template can be any existing agent profile where the skill settings of the profile are applied to other agent profiles. At any one time, you can apply these settings to a maximum of 50 agents. After you apply the skill settings, any changes that you make to the agent profile that was originally used as the template do not affect the other agent profiles.
- Skill changes take effect immediately for agents who are in AUX work mode, AVAIL (available), or logged out. Changes are pending for agents on calls or in ACW work mode until the agent enters the AUX work mode, becomes available, or logs out. Because of this, agents who frequently have calls on hold may have skill changes remain pending for a longer time than expected.
- Changing agent skills should only be done through *Supervisor* as it checks if the agent has the appropriate permissions for the newly assigned skills. The CMS ASCII interface does not perform permission checking which can result in agents belonging to skills to which they do not have permissions.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

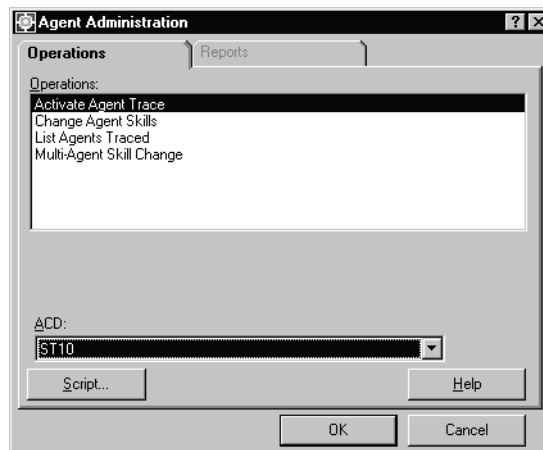
- To view agent skill assignments, the user ID used to log in to this *Supervisor* session requires *read* permission for the Agent Administration subsystem.
- To change agent skills, the user ID used to log in to this *Supervisor* session requires *write* permission for the Agent Administration subsystem.

Steps

To change skills for an agent:

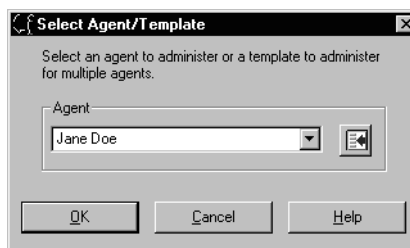
1. From the Controller Window, select **Commands > Agent Administration**.

Supervisor displays the **Agent Administration** window.



2. In the **ACD** field, select the ACD for which you want to change agent skills.
3. In the **Operations:** list, highlight **Change Agent Skills**.
4. Select **OK**.

Supervisor displays the **Select Agent/Template** window.



5. In the **Select Agent/Template** window, enter the Agent ID using one of the following methods in order view or change their skills:

- The agent login ID
- The name of the agent
- An agent template

See the beginning of this section for more information on agent templates.

6. Select **OK**.

Supervisor displays the **Change Agent Skills** window with the agent or template name and login ID in the title bar.

Change Agent Skills 44002 - Jane Doe

Call Handling Preferences:

- ☒ Skill Level
- ☐ Greatest Need
- ☐ Percent Allocation
- ☐ Service Objective
- ☒ Direct Agent Calls First

Agent Skills and Skill Levels

	Assigned Skills	Level	Percent
1	s52	3	
2	s51	3	
3	SPLIT9	3	
4			
5			
6			
7			
8			

Buttons: Add Skills, Delete Skills, Make Top Skill

Direct Agent Skill: s51 Totals: %

Agent Name(s) or Login ID(s):

☒ Use for one or more Agent(s) (Maximum of 50 Agents)

Mary Smith; John Jones

Buttons: OK, Cancel, Script..., Help

Footer: Select skills to add to or delete from the agent, and then select the OK Button. Bison36vpe

The skills and skill level for the agent or template that you named are shown in the **Assigned Skills** field and **Level** field, respectively.

Skill names are shown for the skills that are defined in the Dictionary. Skill numbers are shown for the skills that are not defined in the Dictionary.

These skill settings for an agent can be passed on to other agent profiles. To specify the agents who are to receive the skill settings, select **Use for one or more Agents:** and enter the agent IDs in the associated field.

7. Choose one of the following options to change the skills of this agent or template.

If...	Then...
You want to change which calls an agent receives first	Select a different method in the Call Handling Preferences group box. Calls can be distributed to the selected agent based on: ● Skill Level ● Greatest Need ● Percent Allocation The Skill Level for the agent is shown in the Assigned Skills list. Percent Allocation is only available if <i>Avaya Business Advocate</i> is enabled on the MultiVantage system.
You want to change the skill that is used to queue an agent's direct agent calls	Perform one of the following actions: ● Select a new skill from the Direct Agent Skill drop-down list. ● Enter the name or number of the skill in the Assigned Skills column of the Agent Skills and Skill Levels group that will be used for queuing the direct agent calls to the specified agent. You may then select the skill from the Direct Agent Skill drop-down list. The Direct Agent Skill list does not contain reserve skills. If the agent who is currently displayed has only reserve skills in the Assigned Skills list, no Direct Agent Skill can be assigned to that agent.
You want to change the level/type that is associated with skill that is already assigned	Perform the following procedure: 1. In the Assigned Skills list, select the level of the skill for which you want to change the value. Note that if you have a Skill Level Call Handling Preference, an arrow indicates the agent's Top Skill assignment. 2. Select a new value for the skill level from the Level drop-down list in the Agent Skills and Skill Levels group. If Skill Level is selected in the Call Handling Preference group and only reserve levels are assigned to an agent, that agent does not have a top skill and the Make Top Skill button is disabled. 3. Select OK.

If...	Then...
You want to remove skills that are assigned to this agent or template	Perform the following procedure: 1. In the Assigned Skills field, select the skills to remove from the agent. 2. Select the Delete Skills button. Note that if an agent has only one assigned skill, this skill cannot be deleted.
You want to add skills to this agent or template	Select the Add Skills button. In the Available Skills list of the Add Agent Skills window, highlight one or more skills that you want to assign to the agent as well as the Skill Level for these new skills. The Available Skills field lists all the skills that are defined on this ACD. When you are finished adding skills, select the OK button in the Add Agent Skills window.
You have <i>Avaya Business Advocate</i> and want to specify a new percent allocation	Perform the following procedure: 1. In the Call Handling Preferences group, select Percent Allocation. Note that the Percent Allocation field is unavailable if a reserve level has already been specified for an agent or template. 2. Select the Yes button from the warning window. This indicates that you want to enable the Percent Allocation feature. If an agent or template has Percent Allocation call handling preference, the total percent allocation for all standard skills must equal 100%. By default, Direct Agent Calls First is activated. If a call handling preference other than Percent Allocation is selected, direct agent calls are delivered first, and the Direct Agent Calls First check box is not applicable.
You want to make an Assigned Skill the Top Skill for this agent	Perform the following procedure: 1. In the Assigned Skills column of the Agent Skills and Skill Levels group, select the skill that you want to be the top skill of the agent. 2. Select the Make Top Skill button.

If...	Then...
You want to apply the changes to a group of up to 50 agents	Perform the following procedure: 1. Select the Use for One or More Agents (Maximum of 50 Agents) check box. 2. Enter the agent names or login IDs in the Agent Name(s)/Login ID(s) field, select them from the drop-down list, or select them from the Browse window. 3. Select OK. Changes are submitted to the <i>CMS</i> server. If a move is pending, you are notified that the operation will not occur until the pending conditions are resolved. If you are applying a template to a list of up to 50 agents, <i>Supervisor</i> buffers the change agents skills requests and send them to the <i>CMS</i> server one at a time. <i>Supervisor</i> displays a status box that indicates the status of each requested agent change. If an error is encountered with changes to agent skills, <i>Supervisor</i> displays a message that states what is in error. Select OK or Cancel to dismiss the error message and return to the Change Agent Skills window so that the error can be corrected. 4. Select OK. If the change is successfully made, <i>Supervisor</i> displays a successful message in the status bar. If the state of an agent is not in AUX or AVAIL, <i>Supervisor</i> displays a message which states that the changes will be applied when the agent returns to one of those states. 5. Select OK. <i>Supervisor</i> closes the Change Agent Skills window. 6.

If...	Then...
You are finished making changes	Perform one of the following actions: ● Select OK in the Select Agent/Template window. This action saves the changes that you made to the agent skills. ● Select Cancel in the Select Agent/Template window. This action cancels any changes that you made.
You want to make skill assignment changes for other agents or templates	Perform the following actions: 1. Select another agent or template in the Select Agent/Template window. 2. Return to step 5 and continue with the procedure.

Changing skills for multiple agents

This section provides the procedure for changing skills for more than one agent at a time. Use the **Multi-Agent Skill Change** window to view current skill assignments or to change a skill for as many as 32 agents. You can also use this window to specify the skill levels and type of the skills.

Before you begin

The following items should be read and understood before beginning work with the **Multi-Agent Skill Change** window:

- When agent skills are changed, the change is made to the MultiVantage system and remains in effect until another change is made through *Supervisor* or the MultiVantage system.
- You cannot exit from the **Multi-Agent Skill Change** window until the MultiVantage system responds to the requested changes.
- Skill changes take effect immediately for agents who are in AUX work mode, AVAIL (available), or logged out. Changes are pending for agents on calls or in ACW work mode until the agent enters the AUX work mode, becomes available, or logs out.
- For agents who frequently have calls on hold, skill changes can remain pending for a longer time than expected.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

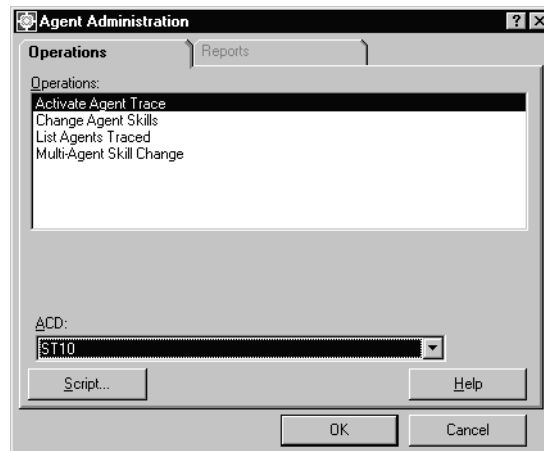
- To view agent skill assignments, the user ID used to log in to this *Supervisor* session requires *read* permission for the Agent Administration subsystem.
- To change agent skills, the user ID used to log in to this *Supervisor* session requires *write* permission for the Agent Administration subsystem and for the skills to which agents are assigned.

Steps

To change one skill for multiple agents:

1. From the Controller Window, select **Commands > Agent Administration**.

Supervisor displays the **Agent Administration** window.



2. In the **ACD:** field, select the ACD for which you want to change agent skills.
3. In the **Operations:** list, highlight the **Multi-Agent Skill Change** item.
4. Select **OK**.

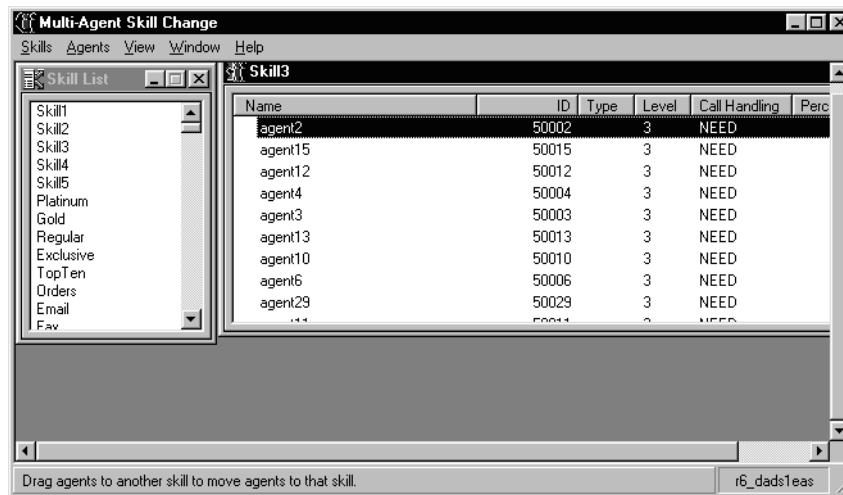
Supervisor displays the **Multi-Agent Skill Change** window.



5. Use one of the following methods to choose a skill:

- Double-click the skill name or number.
- Highlight a skill and press the **Enter** key.

Supervisor displays a second window that shows the agents assigned to this skill who are currently logged in.



Clicking the left mouse button on the column headings sorts the contents between ascending and descending order.

To view or change the current skills of an agent in the skill window, double-click the agent name.

6. To move agents from the current skill to another skill, perform one of the following actions:

- To move a single agent, use the mouse to drag-and-drop an agent to a new skill in the **Skill List** window.
- To move multiple agents to a new skill, hold down the **Ctrl** key and click on multiple agents to select them. You can select a range of agents by clicking on the agent at the beginning of the range, holding down the **Shift** key, and then clicking the agent at the bottom of the range.

Use the drag-and-drop method to move the agents from the window for their current skill to a new skill in the **Skill List** window.

- Another way of moving agents from one skill to another is to open a window for the new, target skill by double-clicking that skill in the **Skill List** window. You can then drag-and-drop agents between the two skill windows.

Note that holding down the **Ctrl** key while dragging and dropping agents will add, not move, the agent or agents to the new skill.

Supervisor displays the **Move Agents Between Skills** window with the **Agents** field showing the following:

- The agents you moved
- The call-handling preferences of the agents
- The reserve level or skill level of each agent
- The service objective of each agent
- The percent allocation for the skill of each agent. Percent allocation is only available on MultiVantage systems with *Avaya Business Advocate*.

Name	ID	Level	Call Handling	Svc. Obj	Percent
agent2	50066	2	LVL	No	
agent5	50070	2	LVL	No	

Move
From Skill: Skill 14
To Skill: Skill 17

☒ Preserve Original Levels
☐ Level 1

OK Cancel Script... Help

The **Move** group displays information showing the skills involved in moving this agent. If the agent is being added to a new skill, not moved, the **From Skill:** information is blank and the **Preserve Original Levels** option is unavailable.

7. In the **Move Agents Between Skills** window, perform one of the following actions to complete moving agents from skill to skill:
 - Select the **Level** option and enter a skill-level value for each agent that you moved to this new skill.
 - To keep the current skill level of the agent, select the **Preserve Original Level** option. This action deactivates the **Level** option.
8. Select **OK**.

If one or more agent moves fail, *Supervisor* displays a status window showing the reasons for failure. Otherwise, the status window notifies you that the change is pending.

Changing extension split assignments

This section provides the procedure for assigning an extension to a different split. This feature is used for MultiVantage systems without Expert Agent Selection (EAS). Use the **Change Extension Split Assignments** window to list the extensions that are in the currently assigned splits or to change the splits that are assigned to a specific extension number.

Before you begin

The following should be read and understood before changing extension split assignments:

- You cannot exit from the **Change Extension Split Assignments** window until the MultiVantage system responds to the requested changes.
- Extension split assignment changes take effect immediately for agents who are in AUX work mode, AVAIL (available), or logged out. Changes are pending for agents on calls or in ACW work mode until the agent enters the AUX work mode, becomes available, or logs out.
- For agents who frequently have calls on hold, extension split assignment changes can remain pending for a long time.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

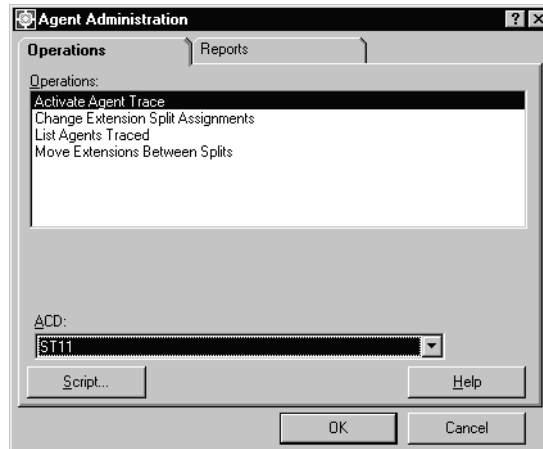
- To view extension split assignments, you need *read* permission for the Agent Administration subsystem.
- To change extension split assignments, you need *write* permission for the Agent Administration subsystem and for the splits to which the extensions are assigned.

Steps

To change an extension split assignment:

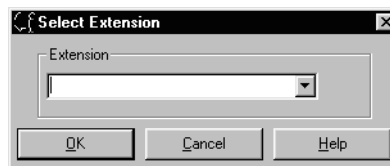
1. From the Controller Window, select **Commands > Agent Administration**.

Supervisor displays the **Agent Administration** window.



2. In the **ACD** field, select the ACD for which you want to change extension split assignments.
3. Select **Operations > Change Extension Split Assignments**.
4. Select **OK**.

Supervisor displays the **Select Extension** window.



5. In the **Select Extension** window, enter the extension number for which the split assignment is to be changed.

The extensions that are assigned to each split can be viewed in the **Move Extensions Between Splits** window. See [Moving extensions between splits](#) on page 255 for more information.

6. Select **OK**.

Supervisor displays the **Change Extension Split Assignments** window.



The **Move Extension From Split** field shows the current split assignment. The **Move Extension To Split** field shows available split names or numbers. If an agent is logged in on the extension, the logged-in icon is displayed as shown in the above graphic. If an agent is not logged in on the extension, an icon is not displayed.

7. Perform one of the following actions:

If...	Then...
You want to change split assignments for an extension other than the one that is displayed	Select Cancel to return to the Select Extension window and then return to step 5.
You want to change split assignments for this extension	Continue with the next step.

8. Perform one of the following actions:

If...	Then...
You want to remove a split assignment from this extension	Select the split name or number that is to be removed from this extension in the Move Extension From Split box.
You want to assign a split assignment to this extension	Select the split name or number that is to be assigned to this extension in the Move Extension To Split box.

9. Select **OK**.

CMS applies the split assignment changes made to the extension.

Moving extensions between splits

This section provides the procedures for adding a split to an extension, removing a split from an extension, and moving an extension to another split. This feature is for those systems without Expert Agent Selection (EAS). You can also use the **Move Extensions Between Splits** window to view extension split assignments.

Before you begin

The following items should be read and understood before moving extensions between splits:

- As many as 32 agents can be moved at one time.
- You cannot exit from the **Move Extensions Between Splits** window until the MultiVantage system responds to your request.
- Extension split assignment changes take effect immediately for agents who are in AUX work mode, AVAIL (available), or logged out. Changes are pending for agents on call or in ACW work mode until the agent enters the AUX work mode, becomes available, or logs out.
- For agents who frequently have calls on hold, an extension move request can remain pending for an extended period of time.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

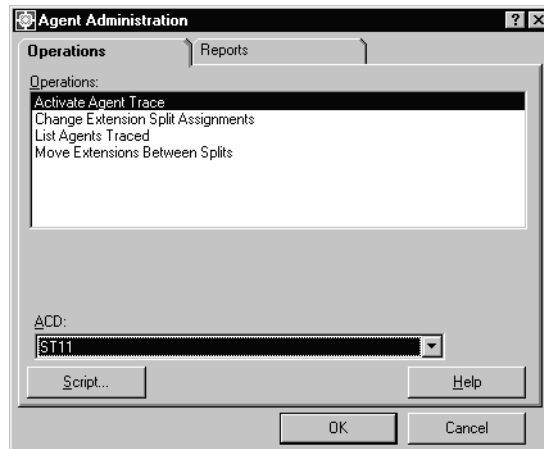
- To view extension assignments, the user ID used to log in to this *Supervisor* session requires *read* permission for the Agent Administration subsystem and the affected splits.
- To move extension assignments, the user ID used to log in to this *Supervisor* session requires *write* permission for the Agent Administration subsystem and the affected splits.

Steps

To move extensions between splits:

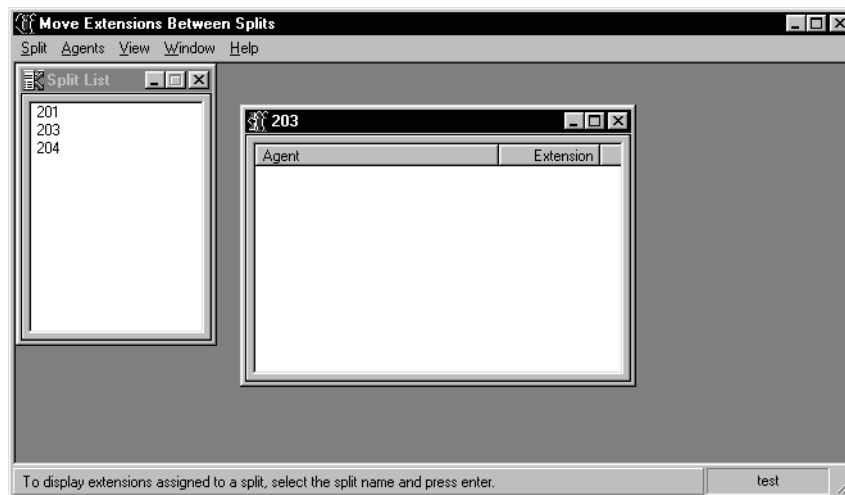
1. From the Controller Window, select **Commands > Agent Administration**.

Supervisor displays the **Agent Administration** window.



2. In the **ACD:** field, select the ACD that contains the extensions to move.
3. In the **Operations:** list, highlight **Move Extensions Between Splits**.
4. Select **OK**.

Supervisor displays the **Move Extensions Between Splits** window.



5. Select the split to work with by performing one of the following actions:
 - Double-click the split name or number in the **Split List** window.
 - Highlight the split to work with in the **Split List** window and then select **Split > Open selected split** from the menu bar.

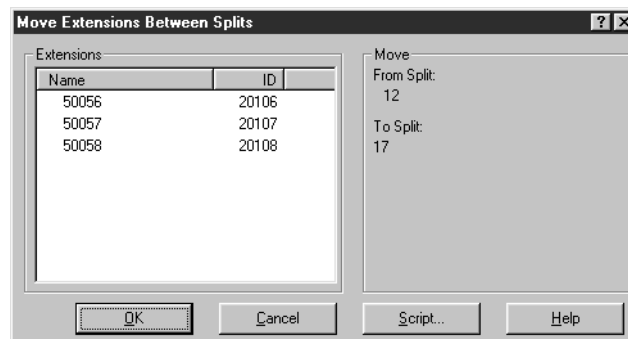
6. To move one or more extensions from the current split to another split, perform one of the following actions:

- To move a single extension, use the mouse to drag-and-drop an extension to a new split in the **Split List** window.
- To move multiple extensions to a new split, hold down the **Ctrl** key and click on multiple extensions to select them. You can select a range of extensions by clicking on the extension at the beginning of the range, holding down the **Shift** key, and then clicking the extension at the bottom of the range.

Use the drag-and-drop method to move the extensions from the window for their current split to a new split in the **Split List** window.

- Another way of moving extensions from one split to another is to open a window for the new, target split by double-clicking that split in the **Split List** window. You can then drag-and-drop extensions between the two split windows.

Supervisor displays the **Move Extensions Between Splits** window.



7. Select **OK** in the **Move Extensions Between Splits** window to complete the moving of the selected extensions.

Running a split members report

This section provide the procedure for running a split members report. This report displays the extensions that are members of a specific split. Unlike regular reports, a custom or designer report cannot be created from the split members report. The split members report lists the selected splits in numerical order, each split's assigned name, and the extensions that are assigned to the split.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

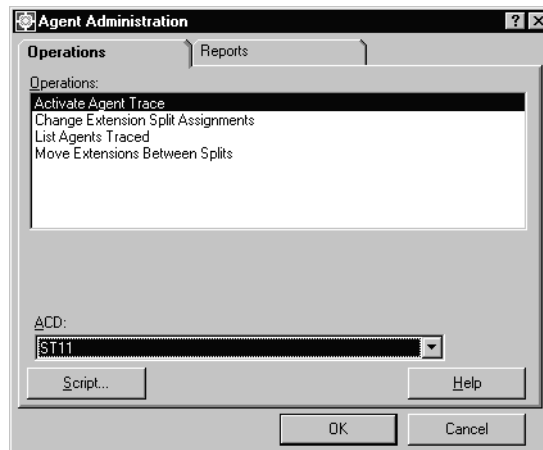
- To run a split members report, the user ID used to log in to this *Supervisor* session requires *read* permission for the Agent Administration subsystem and for all affected splits.

Steps

To run a split members report:

1. From the Controller Window, select **Commands > Agent Administration**.

Supervisor displays the **Agent Administration** window.



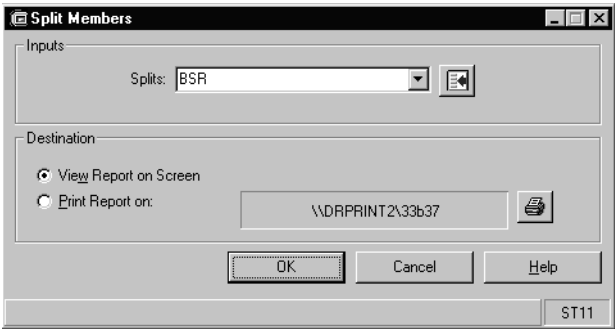
2. Select the **Reports** tab.

Supervisor displays the **Reports** tab of the **Agent Administration** window.

3. In the **ACD:** field, select the ACD on which to run the split members report.
4. In the **Reports:** list, highlight **Split Members**.

5. Select **OK**.

*Supervisor displays the **Split Members** window.*



6. Enter the split information in the **Splits:** field. This can be one split, multiple splits, or a range of splits. Multiple splits must be separated by a semicolon (;).

7. In the **Destination** group, select **View Report on Screen** or **Print Report on:**.

8. Select **OK**.

*Supervisor displays or prints the **Split Members** report.*

The 'Split Members - BSR' report window is shown. It has a menu bar with 'Report', 'Edit', 'Format', 'Tools', 'Options', and 'Help'. Below the menu bar is a table with three columns: 'Split', 'Split Name', and 'Extn'. The table contains 15 rows of data. The 'Split' column contains the number '1' for all rows. The 'Split Name' column contains 'BSR' for all rows. The 'Extn' column contains various extension numbers. At the bottom of the window is a status bar that says 'Double Click To Run Format Table'.

Split	Split Name	Extn
1	BSR	5301E
1	BSR	53014
1	BSR	53012
1	BSR	5301E
1	BSR	5302C
1	BSR	53022
1	BSR	53004
1	BSR	53002
1	BSR	5301C
1	BSR	5300E
1	BSR	5300E
1	BSR	5300E
1	BSR	5111E
1	BSR	53042
1	BSR	5304C
1	BSR	5303E

If the split does not have a name assigned, the **Split Name** columns on the report shows the split number. If the split has no extensions assigned to it, the **Extension** column is blank.

Chapter 7: Administering the contact center configuration

This section provides the procedures to perform operations to configure the contact center. Depending on the type of MultiVantage system and the features that are enabled on it, the items on the **Call Center Administration** menu will vary.

Contents

This section contains the following topics:

- [ACD Groups](#) on page 263
- [Call work codes](#) on page 279
- [VDN skill preferences](#) on page 287
- [Split/skill call profiles](#) on page 293
- [Trunk group assignments](#) on page 303
- [Trunk group members report](#) on page 309
- [VDN-to-vector assignments](#) on page 313
- [VDN call profiles](#) on page 319
- [Vector configuration report](#) on page 329

Before you begin

If an ACD Group is selected as the current ACD in the **Dictionary** window, only those operations that are valid for the ACD Group will appear in the **Operations:** list.

ACD Groups

An *ACD Group* is an administrator-assigned collection of ACDs. This optional feature provides the following capabilities:

- Easy administration of synonyms in the Dictionary across multiple ACDs. A synonym assigned to a *CMS* entity for an ACD Group is then propagated to all members ACDs within that group. For example, if you assign skill 102 in the ACD Group with the synonym of *Sales*, this synonym is assigned to skill 102 for all ACDs within that group. This feature should be utilized when a contact center uses multiple ACDs that require the same synonyms across all of the ACDs for the following entities:
 - Agent login IDs
 - Agent groups
 - Splits/Skills
 - AUX reason codes
 - Logout reason codes
 - Agent string values
 - Split/Skill string values
 - Generic string value synonyms
- The reporting of data from multiple ACDs through the use of custom reports. Reports for ACD Groups collect, aggregate, and display contact center data as a single value for the ACD Group instead of one set of values for each member ACD. Custom reports can be created through the *CMS* ASCII interface or ordered through the Avaya Professional Services Organization. For example, the reporting aspect of this feature can be used to view data for a *CMS* entity across multiple ACDs such as a skill, a specific agent login ID, and so forth.

The ACD Groups feature is available through two interfaces:

- **Call Center Administration** - This subsystem is used for administrators to create, modify, and delete ACD Groups.
- **Dictionary** - This subsystem is used by *CMS* users who need to view ACD Groups, their contents, and to assign ACD Group synonyms.

Contents

This section contains the following topics:

- [Adding an ACD Group](#) on page 266
- [Listing all ACD Groups](#) on page 267
- [Adding an ACD to an ACD Group](#) on page 269
- [Viewing the contents of an ACD Group](#) on page 271
- [Deleting an ACD from an ACD Group](#) on page 273
- [Modifying an ACD Group](#) on page 275
- [Deleting an ACD Group](#) on page 277

Before you begin

The following items should be read and understood before you work with ACD Groups:

Availability

- If the ACD Groups feature has not been purchased, it will not appear in the **Dictionary** or **Call Center Administration** interfaces.
- If you add an ACD Group, you will need to log out of *Supervisor* and log back in to see this group as a choice in the appropriate dialogs.

Capacities/Performance

- A maximum of 12 ACD Groups can exist on an *Avaya CMS* server.
- Each ACD Group can contain zero to eight ACDs.
- *CMS* must be in single-user mode in order to add or delete ACD Groups.

Roles/Definitions

- An ACD Group cannot serve as the *CMS* master ACD.
- An ACD Group cannot be deleted if it is set as the current ACD.
- When created, ACD Groups will be assigned an ACD ID number from 27 through 38. This number is automatically assigned by *CMS* and cannot be altered.
- ACD Groups will not disallow an ACD being added as a member based on its version or feature set.
- Pseudo-ACDs cannot be a member of an ACD Group.

- When an ACD Group is deleted, all synonyms assigned to its member ACDs will remain.
- Names must begin with an alphabetic character and can be up to 20 characters long. Valid characters are alphanumeric (**a-z**, **A-Z**, **0-9**), underscore (**_**), blank (), comma (**,**), period (**.**), single quote (**'**), and plus (**+**). Multiple values are not allowed.

Synonyms

- Overlapping ACD Groups (groups having common member ACDs), could result in synonym conflict within the members of an ACD Group if poorly administered. Because of this capability, entity IDs in overlapping ACD Groups must be mutually exclusive.
- Entity synonyms must be unique for an ACD Group and across all of the ACDs that are members of the ACD Group.

Other

- User permissions are administered separately for an ACD Group and its member ACDs.
- *CMS* real-time custom reports are only displayed if data collection is enabled and the ACD link status is 'up' for at least one member ACD in the specified ACD Group. An error message will be displayed if these conditions are not met.
- Custom reports that are created with the **Single ACD Only** option enabled cannot be run for an ACD Group and vice versa.
- If a backup was created on a *CMS* server where the Global Dictionary feature was authorized, the data can only be restored on a *CMS* server that also has this feature authorized. If the Global Dictionary feature authorizations between a backup and the target *CMS* server do not match, an error is displayed, a message is written to the error log, and the restore or migration fails.

Permissions

- To create, modify, and delete ACD Groups, a *CMS* user must have the *read* and *write* permissions for the **Call Center Administration** subsystem.
- If a *CMS* user only requires the ability to view ACD Groups and the member ACDs, *read* permission is required for the **Dictionary** subsystem.
- To assign synonyms to an ACD group, a *CMS* user requires the *read* and *write* permissions for the **Dictionary** subsystem as well as the ACD Group and its member ACDs.

Adding an ACD Group

This topic provides the procedure for creating an ACD Group. After an ACD Group is created, member ACDs can then be added. See [Adding an ACD to an ACD Group](#) for more information.

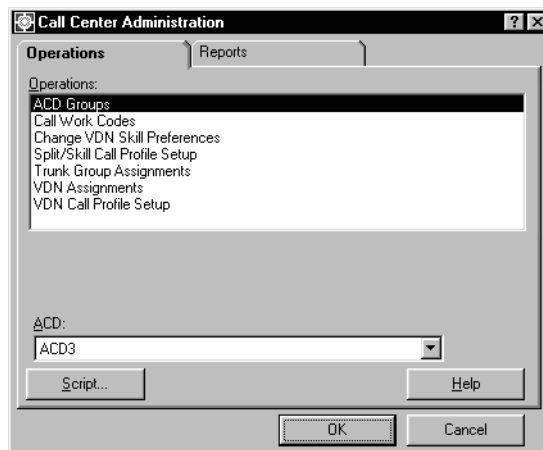
Before performing this procedure, you should ensure that you have read and understand the [Before you begin](#) section regarding ACD Groups.

Steps

To add an ACD Group to CMS:

1. From the Controller Window, select **Commands > Call Center Administration**.

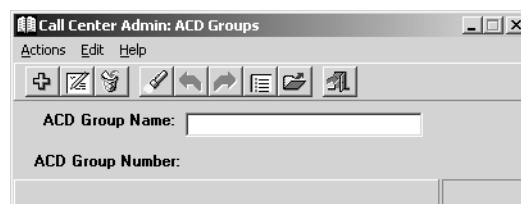
Supervisor displays the **Call Center Administration** window.



2. In the **Operations:** list, highlight **ACD Groups**.

3. Select **OK**.

Supervisor displays the **Call Center Administration ACD Groups** window.



4. In the **ACD Group Name:** field, enter a name for this new ACD Group.

5. From the menu bar, select **Actions > Add**.

CMS creates the ACD Group and assigns an ACD Group Number.

Listing all ACD Groups

This topic provides the procedure for listing all ACD Groups defined on the *CMS* server.

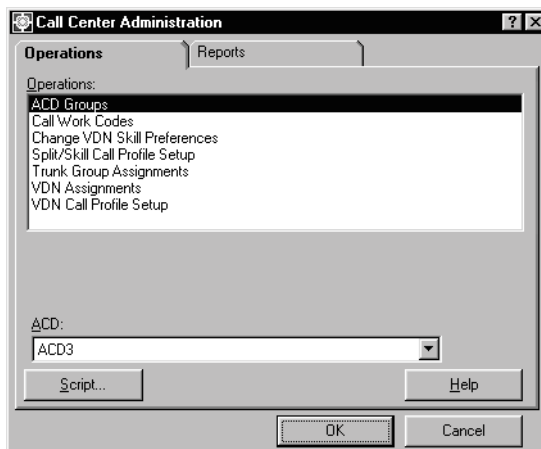
Listing all ACD Groups can be done through either the **Call Center Administration** or **Dictionary** subsystems. Only those *CMS* users who have *read* permission for the **Call Center Administration** subsystem can use the procedure listed below. *CMS* users who only work with synonyms or running reports should use the procedure associated with the **Dictionary** subsystem for listing all ACD Groups.

Steps

To list all ACD Groups defined on the *CMS* server:

1. From the Controller Window, select **Commands > Call Center Administration**.

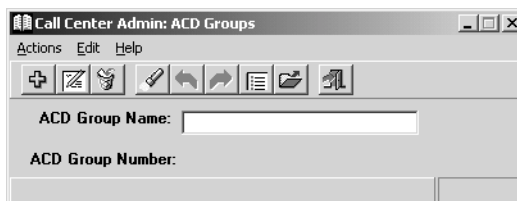
Supervisor displays the **Call Center Administration** window.



2. In the **Operations:** list, highlight **ACD Groups**.

3. Select **OK**.

Supervisor displays the **Call Center Administration ACD Groups** window.

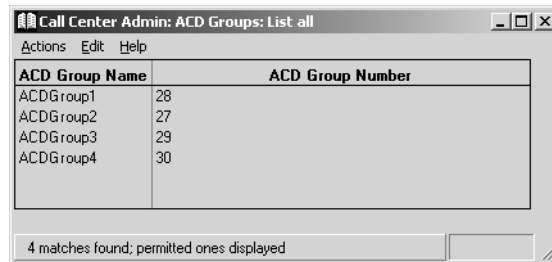


Administering the contact center configuration

4. From the menu bar, select **Edit > Clear All** to remove any data from the fields.

5. Select **Actions > List All**.

Supervisor displays a dialog listing the ACD Groups defined on this CMS server.



ACD Group Name		ACD Group Number	
ACDGroup1		28	
ACDGroup2		27	
ACDGroup3		29	
ACDGroup4		30	

4 matches found; permitted ones displayed

Adding an ACD to an ACD Group

This topic provides the procedure for adding an ACD as a member of an existing ACD Group. This procedure can only be performed after an ACD Group has been created. See [Adding an ACD Group](#) for more information.

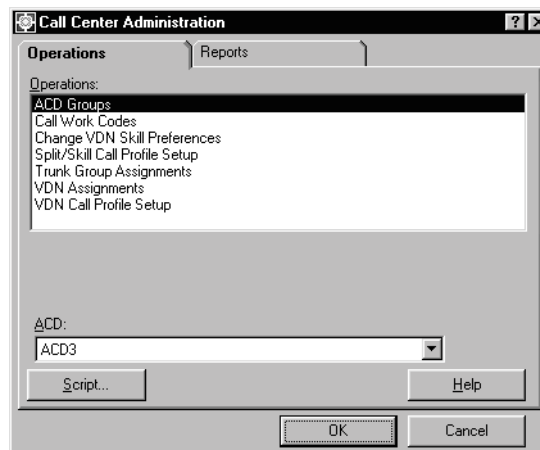
Before performing this procedure, you should ensure that you have read and understand the [Before you begin](#) section regarding ACD Groups.

Steps

To add an ACD to an existing ACD Group:

1. From the Controller Window, select **Commands > Call Center Administration**.

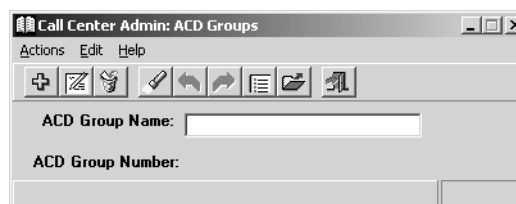
Supervisor displays the **Call Center Administration** window.



2. In the **Operations:** list, highlight **ACD Groups**.

3. Select **OK**.

Supervisor displays the **Call Center Administration ACD Groups** window.



4. In the **ACD Group Name:** field, enter the name of the ACD Group that will receive a new ACD member.

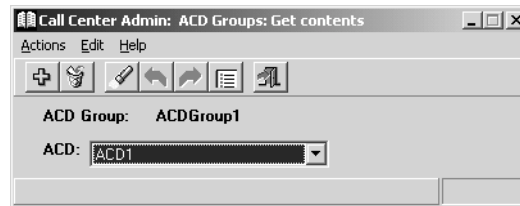
Administering the contact center configuration

5. Select **Actions > Find One** from the menu bar.

If the ACD Group name is valid, its numeric ID is displayed in the **ACD Group Number** field and **1 matches found** is displayed in the status bar.

6. From the menu bar, select **Actions > Get contents**.

Supervisor displays the **Call Center Admin ACD Groups Get contents** dialog.



7. From the **ACD** drop-down list box, select the ACD that will be added to this group.

Note:

If a *CMS* user does not have read and write permissions for an ACD, that ACD will not appear in this list. To view all of the ACDs assigned to this ACD Group, see the [Viewing the contents of an ACD Group](#) topic.

8. Select **Actions > Add** from the menu bar.

The selected ACD is added to this ACD Group and **Successful** is displayed in the status bar.

Viewing the contents of an ACD Group

This topic provides the procedure for displaying the contents of an ACD Group.

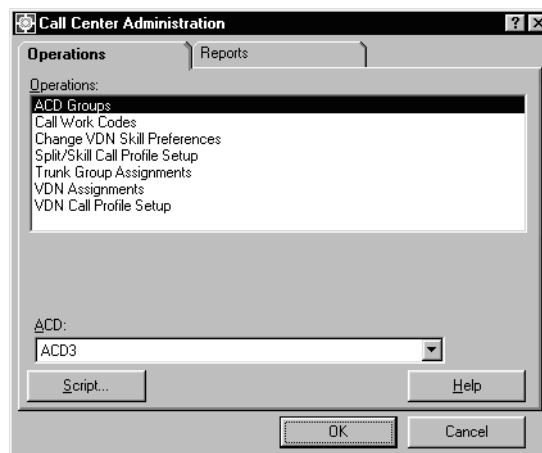
Viewing the contents of an ACD Group can be done through either the **Call Center Administration** or **Dictionary** subsystems. Only those *CMS* users who have *read* permission for the **Call Center Administration** subsystem can use the following procedure. *CMS* users who only work with synonyms or running reports should use the procedure in the [ACD Groups](#) topic of [Chapter 3: Using the Dictionary to name contact center entities](#).

Steps

To view the current contents of an ACD Group:

1. From the Controller Window, select **Commands > Call Center Administration**.

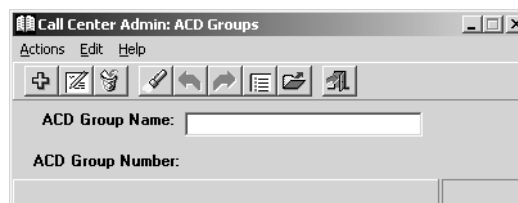
Supervisor displays the **Call Center Administration** window.



2. In the **Operations:** list, highlight **ACD Groups**.

3. Select **OK**.

Supervisor displays the **Call Center Administration ACD Groups** window.



Administering the contact center configuration

4. In the ACD Group Name: field, enter the name of the ACD Group you want to view.

Note:

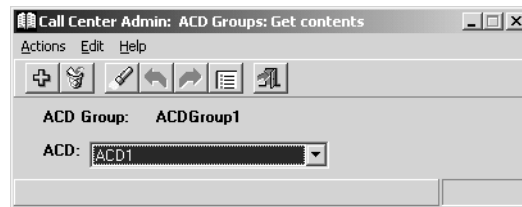
If you are unsure of the name of the ACD Group, use [Listing all ACD Groups](#) on page 267 to determine the name.

5. From the menu bar, select **Actions > Find one**.

If the ACD Group name is valid, its numeric ID is displayed in the **ACD Group Number** field and **1 matches found** is displayed in the status bar.

6. Select **Actions > Get contents**.

Supervisor displays the **Call Center Admin ACD Groups Get contents** dialog.



7. In the **ACD** drop-down list box, select **(none)**.

Note:

If you do not select the **(none)** item, only the selected item in the ACD list will be displayed in the resulting dialog if it is a member of the specified ACD Group. If it is not a member of the ACD Group, the resulting dialog will be blank.

8. From the menu bar, select **Actions > List all**.

Supervisor displays the **Call Center Admin ACD Groups Get Contents List All** dialog showing all ACDs that are members of this ACD Group.

Deleting an ACD from an ACD Group

This topic provides the procedure for removing an ACD from an ACD Group.

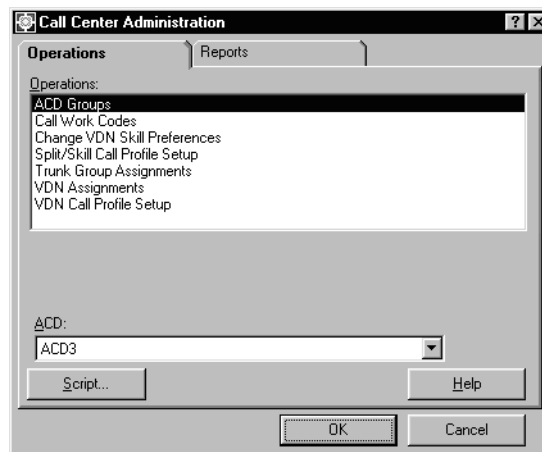
Before performing this procedure, you should ensure that you have read and understand the [Before you begin](#) section regarding ACD Groups.

Steps

To remove an ACD from an ACD Group:

1. From the Controller Window, select **Commands > Call Center Administration**.

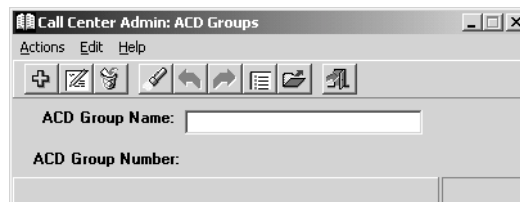
Supervisor displays the **Call Center Administration** window.



2. In the **Operations:** list, highlight **ACD Groups**.

3. Select **OK**.

Supervisor displays the **Call Center Administration ACD Groups** window.



4. In the **ACD Group Name:** field, enter the name of the ACD Group from which you want to delete a member ACD.

Note:

If you are unsure of the name of the ACD Group, use the procedure, [Listing all ACD Groups](#) on page 267.

Administering the contact center configuration

5. From the menu bar, select **Actions > Get contents**.

Supervisor displays the **Call Center Admin ACD Groups Get contents** dialog.



6. In the **ACD** drop-down list box, select the ACD to remove from this ACD Group.

Note:

If a CMS user does not have read and write permissions for an ACD, that ACD will not appear in this list. To view all of the ACDs assigned to this ACD Group, see [Viewing the contents of an ACD Group](#) on page 271.

7. From the menu bar, select **Actions > Find one**.

If the select ACD is a member of the specified ACD Group, **1 matches found** is displayed in the status bar.

8. Select **Actions > Delete**.

The selected ACD is removed from the specified ACD Group and *Supervisor* displays a message box asking if the synonyms assigned to this ACD should be removed as well.

9. Select the **Yes** button to remove all synonyms that were assigned to this ACD through ACD Group administration. Otherwise, select **No** to preserve all synonyms on the ACD.

Modifying an ACD Group

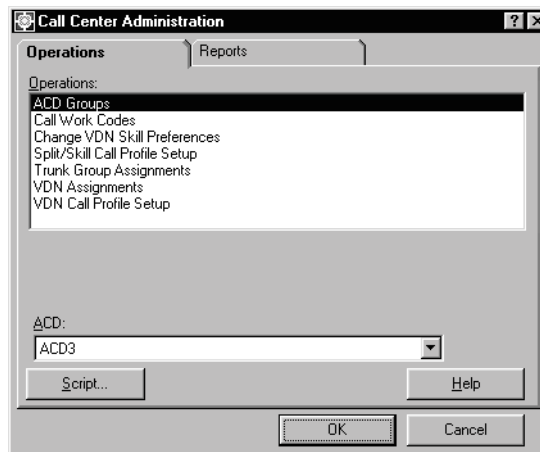
This topic provides the procedure for modifying the name of an existing ACD Group.

Steps

To modify the name of an existing ACD Group:

1. From the Controller Window, select **Commands > Call Center Administration**.

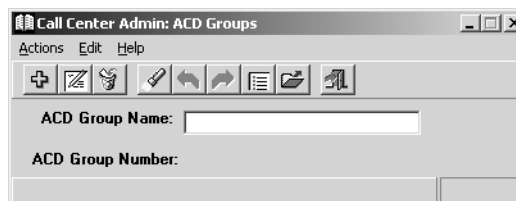
Supervisor displays the **Call Center Administration** window.



2. In the **Operations:** list, highlight **ACD Groups**.

3. Select **OK**.

Supervisor displays the **Call Center Administration ACD Groups** window.



4. In the ACD Group Name: field, enter the name of the ACD Group to change.

If you do not know the name of the ACD Group, use the procedure, [Listing all ACD Groups](#) on page 267.

5. From the menu bar, select **Actions > Find One**.

If the ACD Group name is valid, its numeric ID is displayed in the **ACD Group Number** field and **1 matches found** is displayed in the status bar.

Administering the contact center configuration

6. In the ACD Group Name field, change the name of this ACD Group

See [Before you begin](#) on page 264 for information on naming conventions.

7. When you have finished changing the name of the ACD Group, select **Actions > Modify** from the menu bar.

The modification for the ACD Group is made to the *CMS* database and **Successful** is displayed in the status bar.

Deleting an ACD Group

This topic provides the procedure for deleting an existing ACD Group.

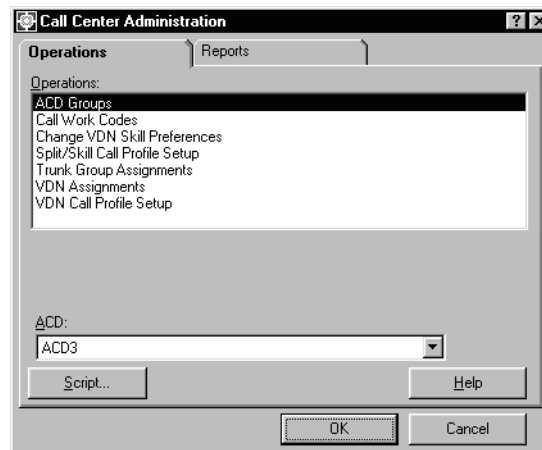
Before performing this procedure, you should ensure that you have read and understand the [Before you begin](#) section regarding ACD Groups.

Steps

To remove an ACD Group from the CMS server:

1. From the Controller Window, select **Commands > Call Center Administration**.

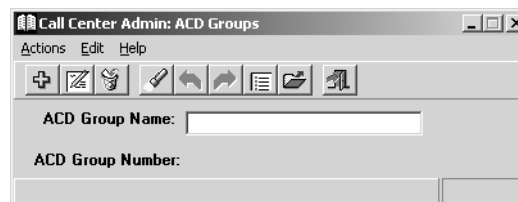
Supervisor displays the **Call Center Administration** window.



2. In the **Operations:** list, highlight **ACD Groups**.

3. Select **OK**.

Supervisor displays the **Call Center Administration ACD Groups** window.



4. In the **ACD Group Name:** field, enter the name of the ACD Group to delete.

If you do not know the name of the ACD Group, you can find it using the procedure, [Listing all ACD Groups](#) on page 267.

Administering the contact center configuration

5. Select **Actions > Find One** from the menu bar.

If the ACD Group name is valid, its numeric ID is displayed in the **ACD Group Number** field and **1 matches found** is displayed in the status bar.

6. Select **Actions > Delete**.

The specified ACD Group is deleted from the *CMS* server.

Call work codes

A *call work code* is a number that represents a particular call type or activity to track in the contact center, for example, promotional ads, complaints, or repeat orders. Agents use the dial pad on their voice terminal to enter call work codes. This information is sent to *CMS* for management reporting and can then be viewed in the call work code and call record historical reports.

Note:

Some telephony applications that are used on PCs require that digits be entered through the software interface instead of the dial pad on the voice terminal.

Contents

This section contains the following topics:

- [Adding call work codes](#) on page 281
- [Viewing call work codes](#) on page 283
- [Listing all call work codes](#) on page 284
- [Deleting call work codes](#) on page 285

Before you begin

The following items should be read and understood before beginning to work with call work codes:

- Call work codes must be positive integers with 1 to 16 digits. Names can be assigned in the Dictionary to call work codes that consist of nine digits or less. It is recommended that a fixed number of digits be used consistently for all call work codes. The use of a consistent number of digits makes it easier to add, delete, and search for call work codes.
- Call work code 0 is always assigned and is used to collect information on unassigned call work codes. Call work code 0 cannot be deleted. If an agent enters an unassigned call work code, it is displayed as code 0 on the call work code report. If a call work code exception is defined, the agent exceptions historical report shows the agents who entered invalid or unassigned call work codes.

Administering the contact center configuration

- Disk space must be allocated for call work codes before they can be used. Call work codes are assigned to a specific ACD. The number of call work codes that can be assigned depends on the Data Storage Allocation settings for the ACD. See [Data Storage Allocation](#) on page 533 for more information.
- Daily, weekly, and monthly standard historical reports are available for call work codes. Call work codes also appear on the standard historical call record report. See the *Avaya CMS Supervisor Reports* document for more information.
- For standard call work code reports, the codes are assigned in the **Call Work Codes** window.
- To have a name refer to a call work code in a report instead of its numerical code, the name must first be assigned in the Dictionary.

Permissions

Depending on the procedure to be performed, the following permissions are needed:

- To view call work codes, the user ID used to log in to this *Supervisor* session requires *read* permission for the Call Center Administration subsystem.
- To add or delete call work codes, the user ID used to log in to this *Supervisor* session requires *read* and *write* permission for the Call Center Administration subsystem.

Adding call work codes

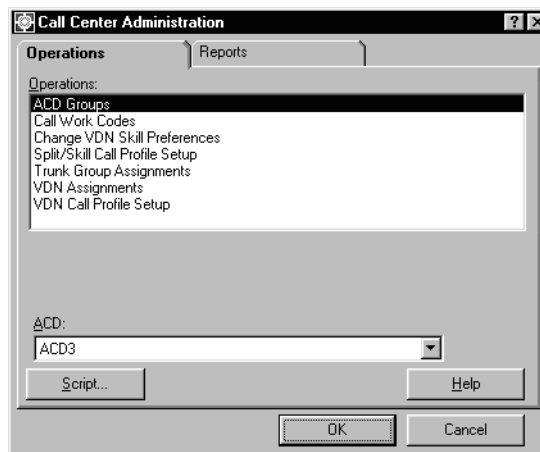
This section provides the procedure for adding a call work code for use in a contact center.

Steps

To add a call work code:

1. From the Controller Window, select **Commands > Call Center Administration**.

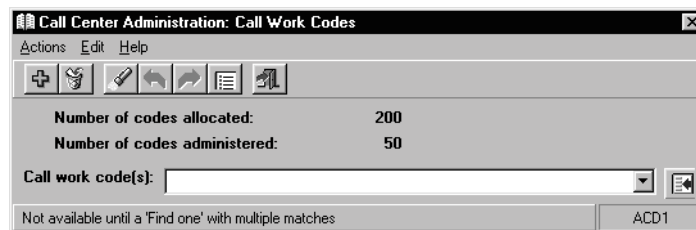
Supervisor displays the **Call Center Administration** window.



2. In the **Operations:** list, highlight **Call Work Codes**.

3. Select **OK**.

Supervisor displays the **Call Work Codes** window.



The following fields are displayed in the **Call Work Codes** window:

- **Number of codes allocated:** - Total number of call work codes that exist in the CMS database
- **Number of codes administered:** - Total number of call work codes currently in use
- **Call work code(s):** - Used to specify a call work code that will receive an action

Administering the contact center configuration

4. Enter the new call work code in the **Call work code(s):** field.

5. Select **Actions > Add**.

The status bar displays **Successful** if the call work code is added to the *CMS* database.

Viewing call work codes

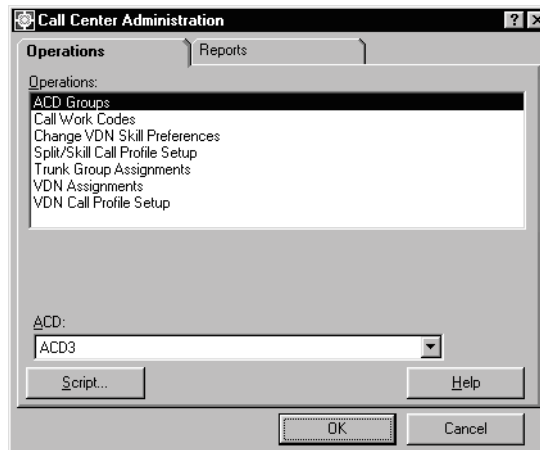
This section provides the procedure for viewing an existing call work code.

Steps

To view a call work code:

1. From the Controller Window, select **Commands > Call Center Administration**.

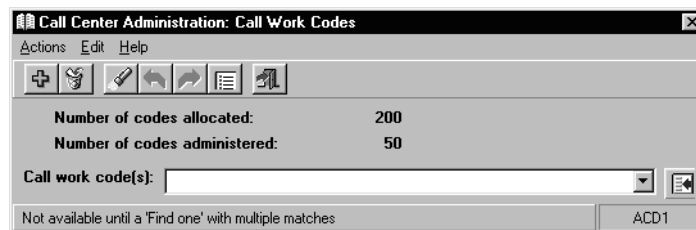
Supervisor displays the **Call Center Administration** window.



2. In the **Operations:** list, highlight **Call Work Codes**.

3. Select **OK**.

Supervisor displays the **Call Work Codes** window.



4. Enter the call work code to view in the **Call work code(s):** field.

5. Select **Actions > Find one**.

If the call work code exists in the *CMS* database, the status bar displays the message, **1 matches found**.

Listing all call work codes

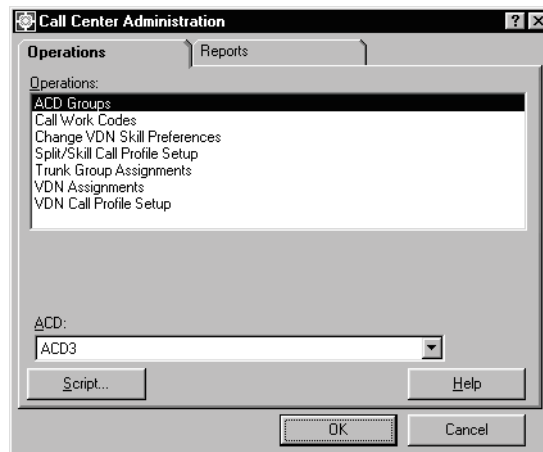
This section provides the procedure for listing all existing call work codes.

Steps

To list all call work codes in the CMS database:

1. From the Controller Window, select **Commands > Call Center Administration**.

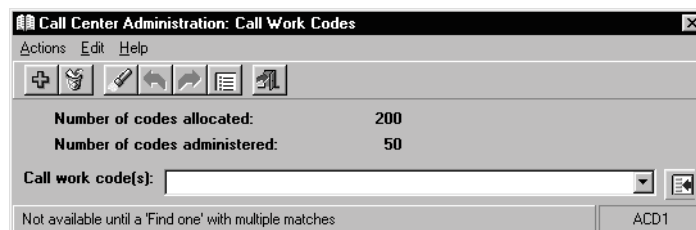
Supervisor displays the **Call Center Administration** window.



2. In the **Operations:** list, highlight **Call Work Codes**.

3. Select **OK**.

Supervisor displays the **Call Work Codes** window.



4. Select **Actions > List all**.

Supervisor displays a secondary window that lists all call work codes having a synonym in the Dictionary.

Deleting call work codes

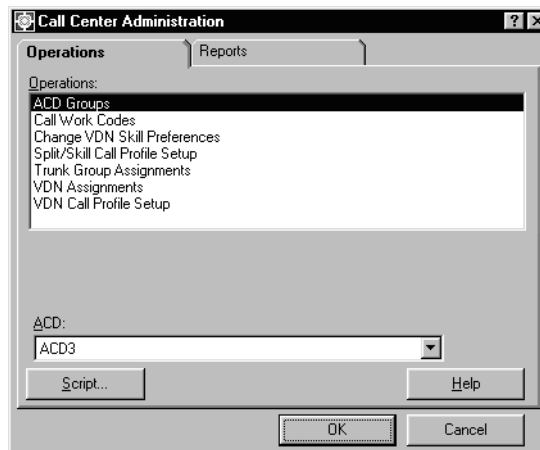
This section provides the procedure for deleting a call work code from the *CMS* database.

Steps

To delete a call work code:

1. From the Controller Window, select **Commands > Call Center Administration**.

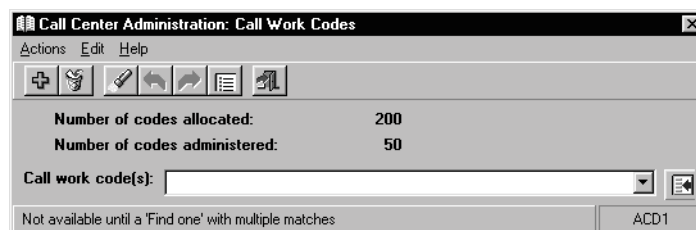
Supervisor displays the **Call Center Administration** window.



2. In the **Operations:** list, highlight **Call Work Codes**.

3. Select **OK**.

Supervisor displays the **Call Work Codes** window.



4. Enter the call work code that you want to delete in the **Call work code(s):** field.

5. Select **Actions > Find one**.

If the specified call work code is found in the *CMS* database, the status bar displays the message, **1 matches found**.

6. Select **Actions > Delete**.

The status bar displays **Successful** if the call work code is deleted from the *CMS* database.

VDN skill preferences

A *Vector Directory Number* (VDN) is an extension number that enables calls to connect to a vector for processing. A VDN is not assigned an equipment location, but is assigned to a vector. A VDN can connect calls to a vector when the calls arrive over an assigned automatic-in trunk group or when calls arrive over a dial-repeating, Direct-Inward-Dialing (DID) trunk group and the final digits match the VDN. The VDN, by itself, may be dialed to access the vector from any extension that is connected to the switch.

Calls use VDN skills for routing based on the preferences that are assigned. The skill preferences are used in the assigned vector as *1st*, *2nd*, and *3rd*.

This section describes the procedures to change the first, second, and third skill preferences assigned to a VDN. You can also list the currently assigned skill preferences for VDNs as well as list all the VDNs that currently have skill preferences assigned to them.

Contents

This section contains the following topics:

- [Changing VDN skill preferences](#) on page 289
- [Viewing VDN skill preferences](#) on page 291
- [Listing all VDN skill preferences](#) on page 292

Before you begin

The following items should be read and understood before working with VDN skill preferences:

- You can only work with VDN skill preferences on a MultiVantage system and the Expert Agent Selection (EAS) feature is present and activated.
- When VDN skill preferences are changed through *Supervisor*, the change takes place immediately on the MultiVantage system. This can affect the processing of calls at the time of the change.
- If the changes to VDN skill preferences should occur at a specific time, they can be run through scripts that can then be scheduled through a third-party scheduling application.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view current VDN skill preferences, the user ID used to log in to this *Supervisor* session requires *read* permission for the Call Center Administration subsystem and the affected VDNs.
- To change VDN skill preferences, the user ID used to log in to this *Supervisor* session requires *write* permission for the Call Center Administration subsystem and the affected VDNs.

Changing VDN skill preferences

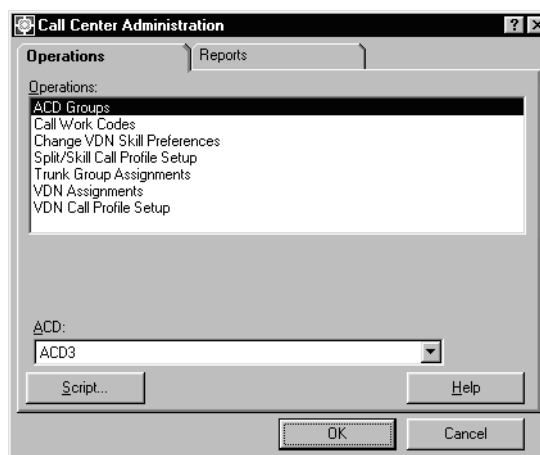
This section provides the procedure for changing skill preferences for a VDN. This feature is only available on MultiVantage systems with the Expert Agent Selection (EAS) feature.

Steps

To change a VDN skill preference:

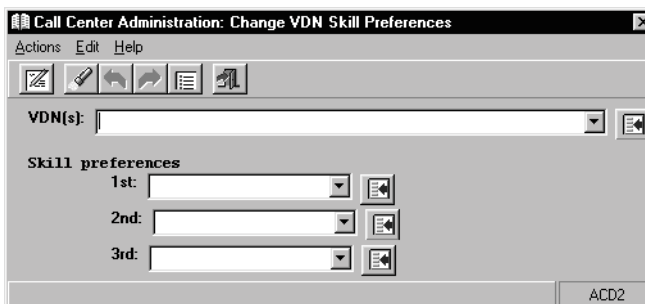
1. From the Controller Window, select **Commands > Call Center Administration**.

Supervisor displays the **Call Center Administration** window.



2. In the **ACD:** field, select the ACD on which VDN skill preferences will be changed.
3. In the **Operations:** list, highlight **Change VDN Skill Preferences**.
4. Select **OK**.

Supervisor displays the **Change VDN Skill Preferences** window.



5. In the **VDN(s):** field, enter the VDN for which skill preferences are to be changed.
6. From the **Actions** menu, select **Find one**.

The status bar displays a successful message if the VDN was found.

Administering the contact center configuration

7. Enter skill preferences for the VDN in the **1st:**, **2nd:**, and **3rd:** fields using one of the following methods:

- Enter the skill name or number.
- Select the skill name or number from the drop-down list.
- Use the Browse button at the right of each field to select a skill.

8. Select **Actions > Modify**.

The status bar displays a successful message when the operation completes.

Viewing VDN skill preferences

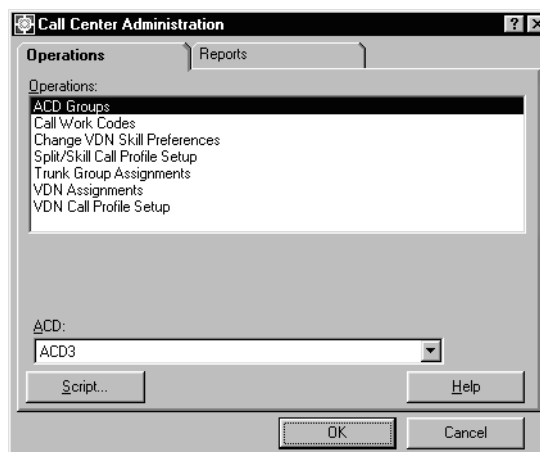
This section provides the procedure for viewing skill preferences for a VDN. This feature is only available on MultiVantage systems with the Expert Agent Selection (EAS) feature.

Steps

To view one or more existing VDN skill preferences:

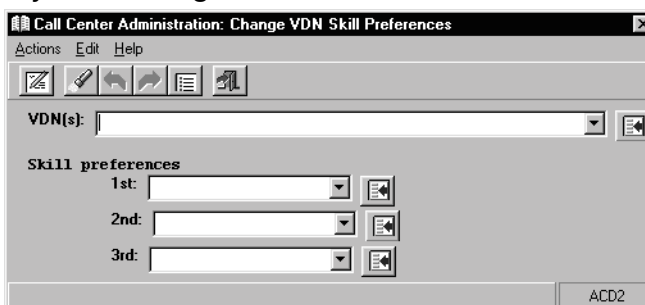
1. From the Controller Window, select **Commands > Call Center Administration**.

Supervisor displays the **Call Center Administration** window.



2. In the **ACD:** field, select the ACD on which VDN skill preferences will be viewed.
3. In the **Operations:** list, highlight **Change VDN Skill Preferences**.
4. Select **OK**.

Supervisor displays the **Change VDN Skill Preferences** window.



5. In the **VDN(s):** field, enter the VDN for which skill preferences are to be viewed.
6. From the **Actions** menu, select **Find one**.

The status bar displays a successful message if the VDN was found and lists the skill preferences, if any exist for this VDN.

Listing all VDN skill preferences

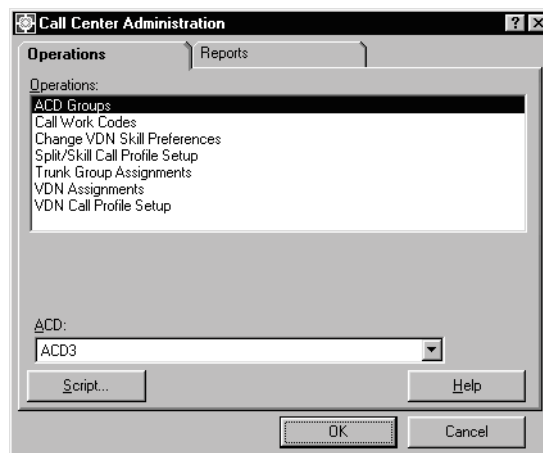
This section provides the procedure for listing all skill preferences for a VDN. This feature is only available on switches with the Expert Agent Selection (EAS) feature.

Steps

To list all VDN skill preferences:

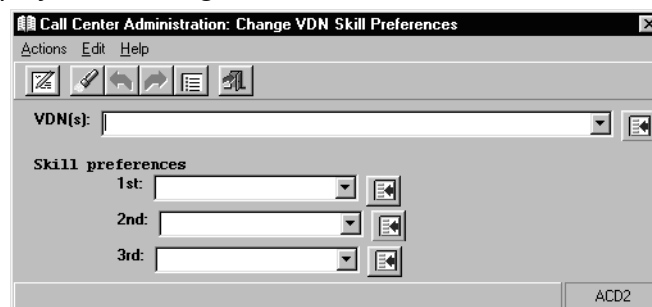
1. From the Controller Window, select **Commands > Call Center Administration**.

Supervisor displays the **Call Center Administration** window.



2. In the **ACD:** field, select the ACD on which the VDNs and their skill preferences will be viewed.
3. In the **Operations:** list, highlight **Change VDN Skill Preferences**.
4. Select **OK**.

Supervisor displays the **Change VDN Skill Preferences** window.



5. Select **Actions > List all**.

Supervisor displays a window listing all VDNs on this ACD and the associated skill preferences.

Split/skill call profiles

Call profiles are settings for a split or skill that assist in determining how much time passes before a call is answered or abandoned. The accumulated number of seconds that have passed for an unanswered call are divided into different service-level increments. If a call surpasses the time that is allowed for the first service-level increment, it then moves to the next service-level increment. This information is recorded for each call and can later be viewed through the split/skill call profile report to determine the number of calls that were answered or abandoned in each increment.

Contents

This section contains the following topics:

- [Adding split/skill call profiles](#) on page 295
- [Viewing an existing split/skill call profile](#) on page 297
- [Modifying a split/skill call profile](#) on page 299
- [Deleting a split/skill call profile](#) on page 301

Before you begin

The following items should be read and understood before working with split/skill call profiles:

- Each service-level increment value can be set to a different length of time in seconds.
- Each of the first nine service-level increments can have a different time length and represents a unit of wait time. The number of seconds for the second through the ninth increment must be at least 1 second greater than the number of seconds in the previous increment.
- CMS counts the calls that are either answered or abandoned within each increment and shows the totals on split/skill call profile reports. Therefore, the settings of these increments affect what is displayed in reports.
- Making changes to the service level field after data was collected with a different service level value causes reports to give inaccurate data for the **Percent within Service Level** value. If you must change the service level, it is best to change the value at midnight on the first day of a month so that data for the entire month is gathered using the same service level value.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view split/skill call profiles, the user ID used to log in to this *Supervisor* session requires *read* permission for the Call Center Administration subsystem and all affected splits and skills.
- To add, delete, or change a split/skill call profile, the user ID used to log in to this *Supervisor* session requires *write* permission for the Call Center Administration subsystem and all affected splits and skills.

Adding split/skill call profiles

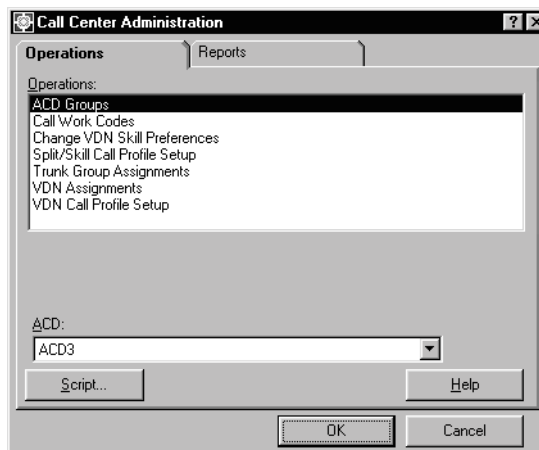
The section provides the procedure for adding a split/skill call profile.

Steps

To add a split/skill call profile:

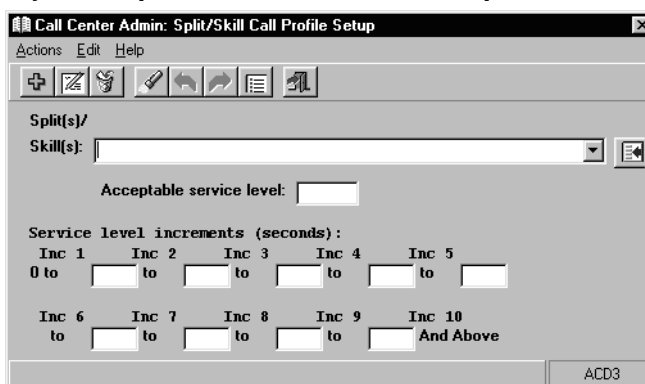
1. From the Controller Window, select **Commands > Call Center Administration**

Supervisor displays the **Call Center Administration** window.



2. In the **ACD:** field, select the ACD on which the new split/skill call profile will be created.
3. In the **Operations:** list, highlight **Split/Skill Call Profile Setup**.
4. Select **OK**.

Supervisor displays the **Split/Skill Call Profile Setup** window.



5. In the **Split(s)/Skill(s):** field, enter the split or skill numbers or names.

6. In the **Acceptable service level:** field, enter the objective speed of answer for the splits or skills. This field represents the number of seconds for the speed of answer and can accept values from **0** to **9999**. This value should be no larger than the number of seconds in the intrahour interval that is set on *CMS*. For example, **1800** for a half-hour intrahour interval or **3600** for an hour-long intrahour interval. You must enter a value in this field.

The following example displays how an administrator might set up a split/skill call profile:

The screenshot shows a configuration window with the following fields:

- Acceptable service level:** A text box containing the value **1800**.
- Service level increments (seconds):** A section containing ten increments, each with a range of seconds separated by "to".
 - Inc 1:** 0 to 5
 - Inc 2:** 5 to 15
 - Inc 3:** 15 to 30
 - Inc 4:** 30 to 60
 - Inc 5:** 60 to 90
 - Inc 6:** 90 to 120
 - Inc 7:** 120 to 180
 - Inc 8:** 180 to 240
 - Inc 9:** 240 to 360
 - Inc 10:** 360 and above

The **Acceptable service level:** field, has been set to **1800** seconds to correspond with the intrahour interval on the *CMS* server.

Inc 1 has been set for the range of **0 to 5** seconds. **Inc 2** ranges covers **5 to 15** seconds. The other service level increments continue on until **Inc 10**. This last service level increment is used in this example is for those calls that extend beyond **360** seconds. If a call is not addressed after the acceptable service level of **1800** seconds, the call is then tracked in a different *CMS* database category.

7. In the **Service level increments (seconds):** fields, enter a progressively greater number of seconds in each **to** field. Each field can support values from **0** to **999**.

If the unanswered call surpasses the time limit for an increment, it moves on to the next increment. For example, **0 to 5 to 10 to 25** represents 0 to 5 seconds, 6 to 10 seconds, and 11 to 25 seconds.

Each of the nine increments can vary in length, for example, 0 to 15, 16 to 20, 21 to 26, 27 to 38, 39 to 43, and so forth.

If these fields are not supplied with data, **0** is used for all service level increments and all calls appear in the first increment on the split/skill call profile report.

8. Select **Actions > Add**.

The status bar displays a message stating if the operation succeeded or failed.

Viewing an existing split/skill call profile

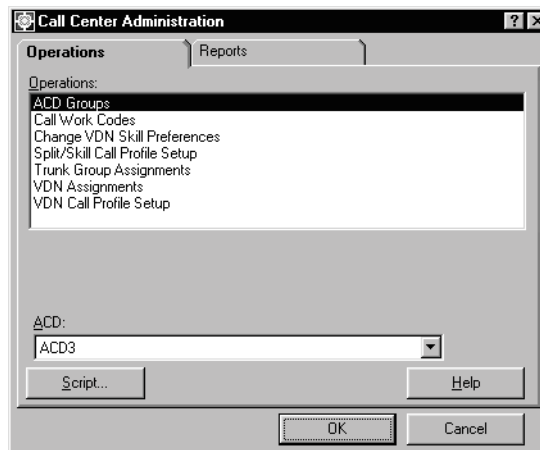
This section provides the procedure for viewing a split/skill call profile that already exists.

Steps

To view an existing split/skill call profile:

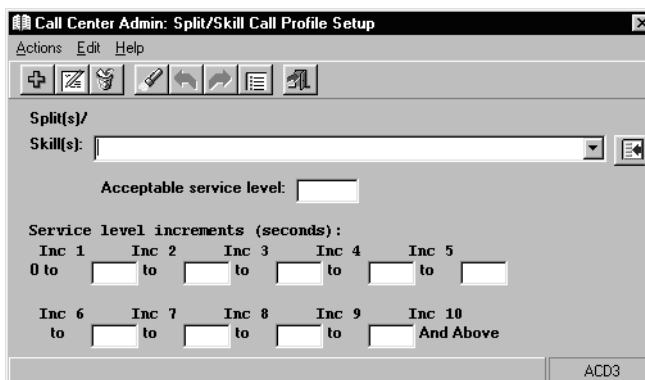
1. From the Controller Window, select **Commands > Call Center Administration**.

Supervisor displays the **Call Center Administration** window.



2. In the **ACD:** field, select the ACD on which the existing split/skill call profile resides.
3. In the **Operations:** list, highlight **Split/Skill Call Profile Setup**.
4. Select **OK**.

Supervisor displays the **Split/Skill Call Profile Setup** window.



Administering the contact center configuration

5. In the **Split(s)/Skill(s):** field, enter the split or skill that is represented by the call profile to view.
6. From the **Actions** menu, select **Find One**.

The status bar displays a **Successful** message if the call profile for the specified split or skill is found. Additionally, *Supervisor* populates the **Service Level Increments (seconds):** fields with the service level increments for this call profile.

Modifying a split/skill call profile

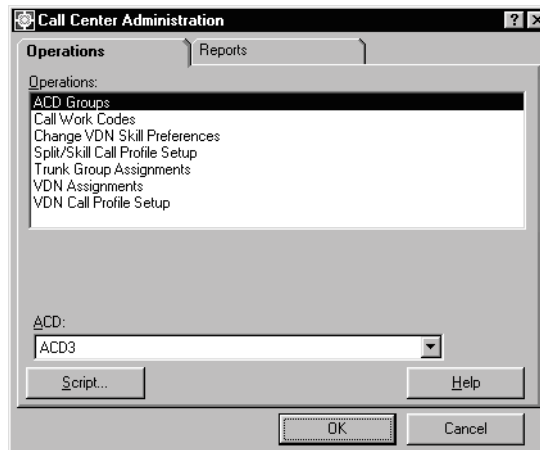
This section provides the procedure for modifying a call profile for a split or skill.

Steps

To modify a split/skill call profile:

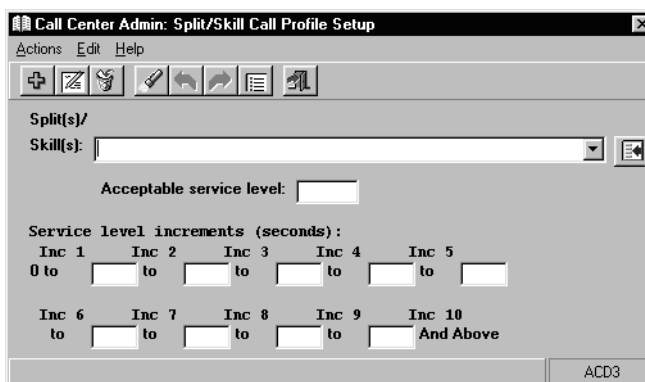
1. From the Controller Window, select **Commands > Call Center Administration**.

Supervisor displays the **Call Center Administration** window.



2. In the **ACD:** field, select the ACD on which the split/skill call profile to modify resides.
3. In the **Operations:** list, highlight **Split/Skill Call Profile Setup**.
4. Select **OK**.

Supervisor displays the **Split/Skill Call Profile Setup** window.



5. In the **Split(s)/Skill(s):** field, enter the split or skill on which the call profile to modify resides.

Administering the contact center configuration

6. From the **Actions** menu, select **Find One**.

The status bar displays a **Successful** message if the call profile for the specified split or skill is found. Additionally, *Supervisor* populates the **Service Level Increments (seconds):** fields with the service level increments for this call profile.

7. Enter the new values in the **Acceptable service level:** or the **Service level increments (seconds):** fields.
8. From the **Actions** menu, select **Modify**.

The status bar displays a **Successful** message when the operation completes.

Deleting a split/skill call profile

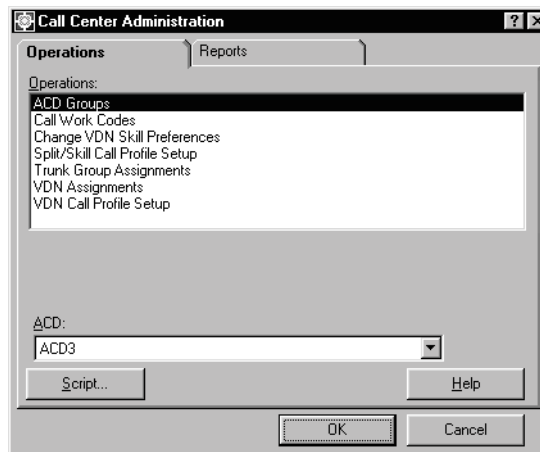
This section provides the procedure for deleting a split/skill call profile.

Steps

To delete an existing split/skill call profile:

1. From the Controller Window, select **Commands > Call Center Administration**.

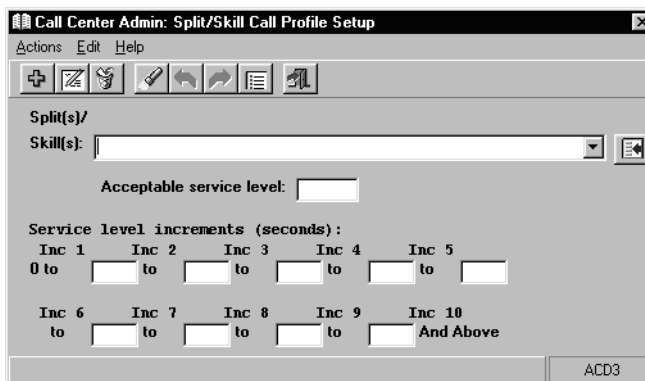
Supervisor displays the **Call Center Administration** window.



2. In the **ACD:** field, select the ACD on which the split/skill call profile to delete resides.

3. In the **Operations:** list, highlight **Split/Skill Call Profile Setup**.

Supervisor displays the **Split/Skill Call Profile Setup** window.



4. In the **Split(s)/Skill(s):** field, enter the split or skill on which the call profile to delete resides.

Administering the contact center configuration

5. From the **Actions** menu, select **Find One**.

The status bar displays a **Successful** message if the call profile for the specified split or skill is found. Additionally, *Supervisor* populates the **Service Level Increments (seconds)**: fields with the service level increments for this call profile.

6. From the **Actions** menu, select **Delete**.

Supervisor deletes the specified split/skill call profile and displays a **Successful** message in the status bar.

Trunk group assignments

A *trunk group* is a group of circuits that are assigned the same dialing digits, either a telephone number or a Direct-Inward-Dialing (DID) prefix. Trunk groups can be assigned to Vector Directory Numbers (VDNs) or non-vector-controlled splits.

Contents

This section contains the following topics:

- [Viewing all trunk group assignments](#) on page 304
- [Viewing a single trunk group assignment](#) on page 305
- [Viewing a trunk group assignment by VDN or split](#) on page 307

Before you begin

The following items should be read and understood before working with trunk group assignments:

- Automatic-in trunk groups, such as those that are used as Listed Directory Numbers, must be assigned to VDNs or splits through an administration tool for the MultiVantage system.
- DID or dial-repeating trunks, such as those that toll-free numbers are assigned to, are not assigned to VDNs or splits since the Central Office (CO) passes VDN digits or the split extension number to the MultiVantage system. Because of this, toll-free numbers do not appear during these procedures.
- Vector-controlled splits cannot have trunk groups assigned to them because they can only receive calls through vector processing.
- The **Trunk Group Assign** window used in these procedures cannot be used to change trunk group assignments. Changing trunk group assignments is done through an administration tool for the MultiVantage system.

Permissions

To view trunk group assignments, the user ID used to log in to this *Supervisor* session requires *read* permission for the Call Center Administration subsystem and for all affected trunk groups, splits, and VDNs.

Viewing all trunk group assignments

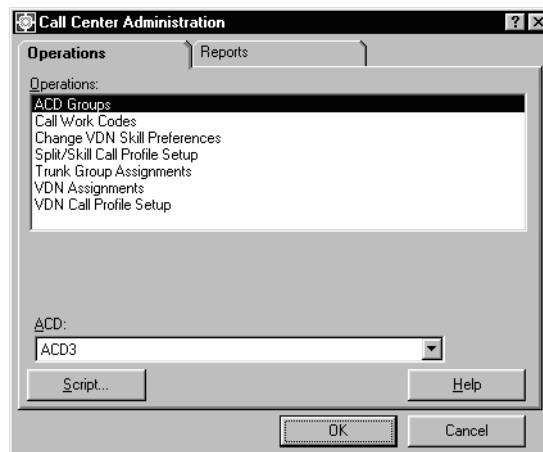
This section provides the procedure for viewing all trunk group assignments.

Steps

To view all trunk group assignments:

1. From the Controller Window, select **Commands > Call Center Administration**.

Supervisor displays the **Call Center Administration** window.



2. In the **ACD:** field, select the ACD on which trunk group assignments are to be viewed.
3. In the **Operations:** list, highlight **Trunk Group Assignments**.
4. Select **OK**.

Supervisor displays the **Trunk Group Assign** window.



5. With all fields blank, select **Actions > List All**.

Supervisor displays the **Trunk Group Assignments - List All** window showing all trunk groups and their current assignments.

To clear all fields of information, select **Edit > Clear all**.

Viewing a single trunk group assignment

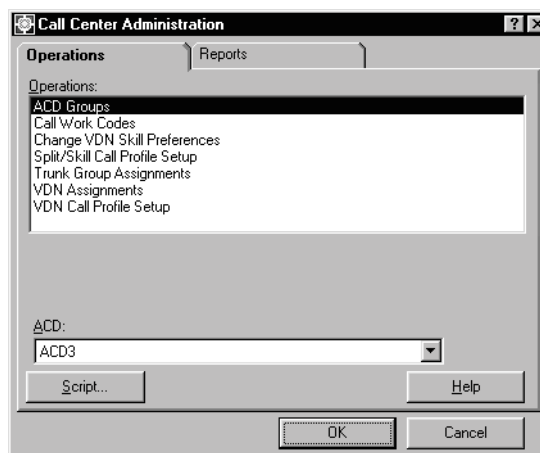
This section provides the procedure for viewing the assigned VDN or split for a single trunk group.

Steps

To view the assigned VDN or split for a single trunk group:

1. From the Controller Window, select **Commands > Call Center Administration**.

Supervisor displays the **Call Center Administration** window.



2. In the **ACD:** field, select the ACD for which trunk group assignments are to be viewed.
3. In the **Operations:** list, highlight **Trunk Group Assignments**.
4. Select **OK**.

Supervisor displays the **Call Center Admin: Trunk Group Assign** window.



Administering the contact center configuration

5. In the **Trunk Groups:** field, enter the trunk group for which assignments are to be viewed. More than one trunk group can be entered in this field. Multiple trunk groups must be separated with a semicolon (;).

6. Select **Actions > Find One**.

The VDN or split assignment for the specified trunk group is displayed in the corresponding field.

If a VDN or split is not assigned to this trunk group, the status bar displays **0 matches found**.

Viewing a trunk group assignment by VDN or split

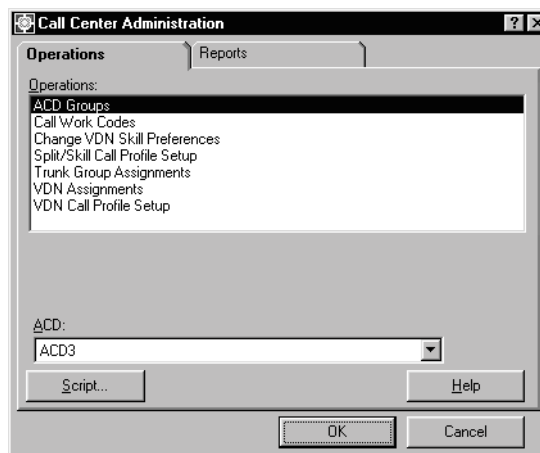
This section provides the procedure for viewing the trunk group that is assigned to a specific VDN or split.

Steps

To view the trunk group that is assigned to a VDN or skill:

1. From the Controller Window, select **Commands > Call Center Administration**.

Supervisor displays the **Call Center Administration** window.



2. In the **ACD:** field, select the ACD for which trunk group assignments are to be viewed.
3. In the **Operations:** list, highlight **Trunk Group Assignments**.
4. Select **OK**.

Supervisor displays the **Trunk Group Assign** window.



Administering the contact center configuration

5. Either a VDN or split can be specified to display the trunk group or groups assigned to it.

- To display the trunk groups that are assigned to a VDN:
 - i. In the **Select one:** group, select **VDN:**.
 - ii. Enter the VDN number or name in the field for the **VDN:** option.
- To display the trunk groups that are assigned to a split:
 - i. In the **Select one:** group, select **Split:**.
 - ii. Enter the split number or name in the field for the **Split:** option.

6. Select **Actions > Find one**.

Supervisor displays the first trunk group that is assigned to the specified VDN or split in the **Trunk Groups:** field. If more trunk groups are currently assigned, click the **Next** button to view them.

Trunk group members report

The trunk group members report is used to view the equipment locations of all the trunks that are in a particular trunk group. The report lists the selected trunk groups in numerical order, each trunk group's assigned name, and the equipment location of each trunk in the trunk group. If the trunk group does not have an assigned name, the **Trunk Group Name** field shows the trunk group number. Also, if the trunk group has no trunks assigned to it, the equipment location field is blank.

Before you begin

The following items should be read and understood before working with the trunk group members report:

- Custom or designer reports cannot be created from the trunk group members report.
- The link to the MultiVantage system must be active in order to run this report.

Permissions

To run a trunk group members report, the user ID used to log in to this *Supervisor* session requires *read* permission for the Call Center Administration subsystem and all affected trunk groups.

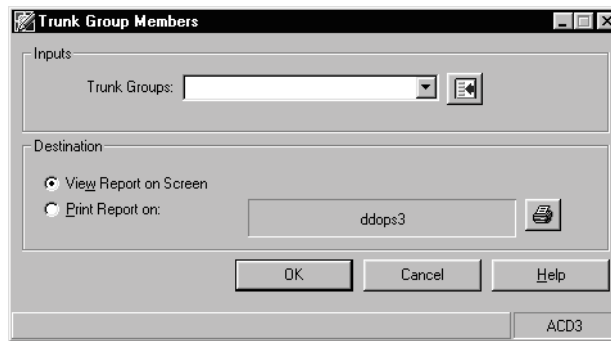
Running a trunk group members report

Steps

To run a trunk group members report:

1. From the Controller Window, select **Commands > Call Center Administration**
Supervisor displays the **Call Center Administration** window.
2. On the **Call Center Administration** window, select the **Reports** tab.
3. In the **ACD:** field, select the ACD for which the report will run.
4. In the **Reports:** list, highlight **Trunk Group Members**.
5. Select **OK**.

Supervisor displays the **Trunk Group Members** window.



6. In the **Trunk Groups:** field, enter the numbers or names of the trunk groups that are to be used in the report.
Multiple trunk groups must be separated by a semicolon (;).
7. In the **Destination** group, select the output option of the report:
 - **View Report on Screen** - The report is displayed on the screen.
 - **Print Report on:** - Sends the report to the printer that is specified in the associated field. To change the specified printer, select the **Select printer** button located on the right side of this group.

8. Select **OK**.

Supervisor runs the report and sends it to the specified destination.

Trunk Group	Trunk Group Name	Trunk
10	10	0001C1203
10	10	0001C1204
10	10	0001C1202
10	10	0001C1201
10	10	0001C1207
10	10	0001C1205
10	10	0001C1206
10	10	0001C1208
10	10	0001C1002
10	10	0001C1003
10	10	0001C1001
10	10	0001C1008
10	10	0001C1023
10	10	0001C1004
10	10	0001C1006
10	10	0001C1005
14	t14,.*AbCdEfGhIjK	0001C0306

VDN-to-vector assignments

A *Vector Directory Number (VDN)* is an extension number that enables incoming calls to be connected to a vector for processing. The VDN by itself may be dialed to access the vector from any extension that is connected to the switch. Initial assignment of a VDN to a vector is done on the MultiVantage system, but can later be changed using *CMS* or *Supervisor*.

Contents

This section contains the following procedures:

- [Viewing all VDN-to-vector assignments](#) on page 315
- [Listing VDNs associated with a vector](#) on page 316
- [Modifying VDN-to-vector assignments](#) on page 317

Before you begin

The following items should be read and understood before working with VDN-to-vector assignments:

- Changing any VDN-to-vector assignments can alter call processing
- Multiple VDNs can be assigned to the same vector.
- VDNs cannot be assigned to more than one vector.
- You cannot exit the VDN-to-vector assignment window until *Supervisor* receives a response to the requested change.
- Calls that are already in vector processing are not affected by a VDN-to-vector change.
- Changing the VDN-to-vector assignment affects the next call that enters the VDN.
- VDN-to-vector assignment changes that are scheduled should either be grouped together in a timetable or individually scheduled so that one assignment completes before the next assignment change request is scheduled.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view VDN-to-vector assignments, the user ID used to log in to this *Supervisor* session requires *read* permission for the Call Center Administration subsystem and for all affected VDNs and vectors.
- To modify VDN-to-vector assignments, the user ID used to log in to this *Supervisor* session requires *write* permission for the Call Center Administration subsystem and for all affect VDNs and vectors.

Viewing all VDN-to-vector assignments

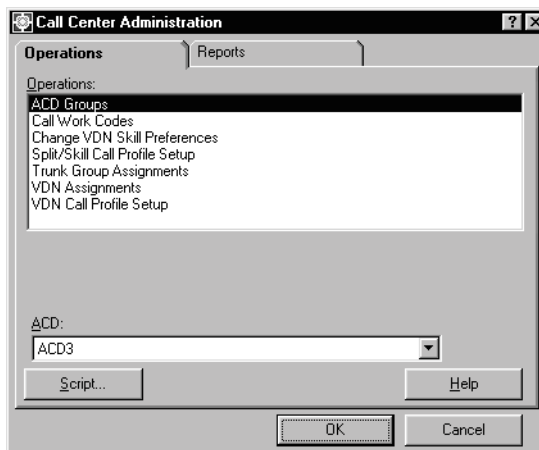
This section provides the procedure to view all VDN-to-vector assignments.

Steps

To view all current VDN-to-vector assignments:

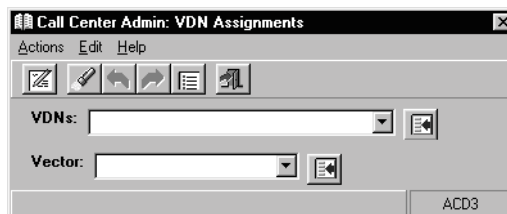
1. From the Controller Window, select **Commands > Call Center Administration**.

Supervisor displays the **Call Center Administration** window.



2. In the **ACD:** field, select the ACD for which VDN-to-vector assignments are to be viewed.
3. In the **Operations:** list, highlight **VDN Assignments**.
4. Select **OK**.

Supervisor displays the **VDN Assignments** window.



5. Select **Actions > List all** from the menu bar.

Supervisor displays a secondary window that lists all VDNs for which this user ID has *read* permission.

Listing VDNs associated with a vector

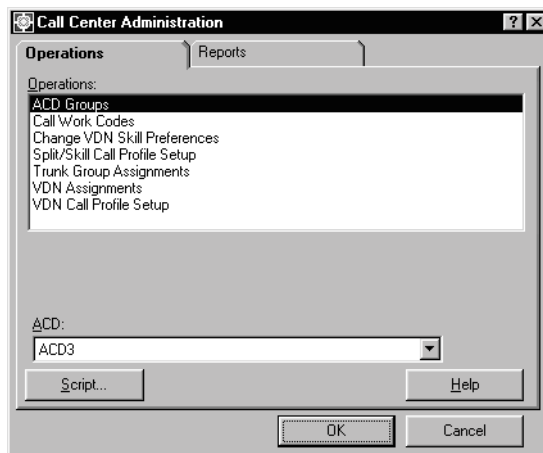
This section provides the procedure for listing the VDNs that are associated with a specific vector.

Steps

To list the VDNs that are associated with a specific vector:

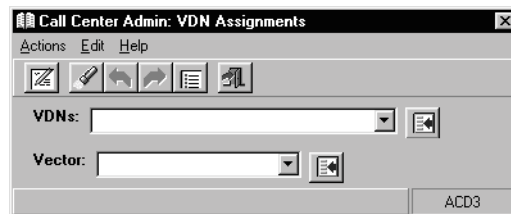
1. From the Controller Window, select **Commands > Call Center Administration**.

Supervisor displays the **Call Center Administration** window.



2. In the **ACD:** field, select the ACD on which the vector resides.
3. In the **Operations:** list, highlight **VDN Assignments**.
4. Select **OK**.

Supervisor displays the **VDN Assignments** window.



5. In the **Vector** field, enter the name or number of the vector.
6. Select **Actions > List all** from the menu bar.

Supervisor displays a secondary window that lists all VDNs assigned to the specified vector.

Modifying VDN-to-vector assignments

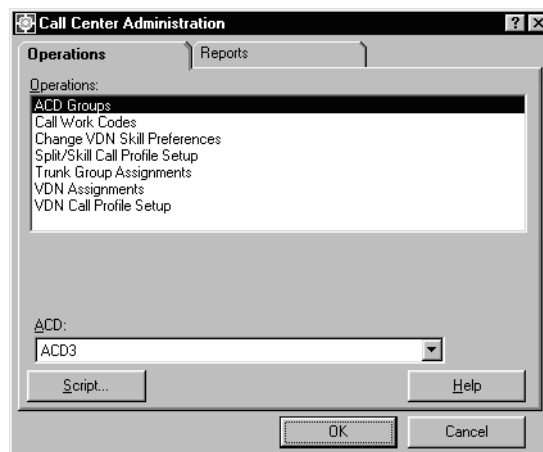
This section provides the procedure for modifying the current VDN-to-vector assignments. Remember that VDNs can only be assigned to vectors initially through administrative utilities that are available only on MultiVantage system.

Steps

To modify the assignment of a VDN to a vector:

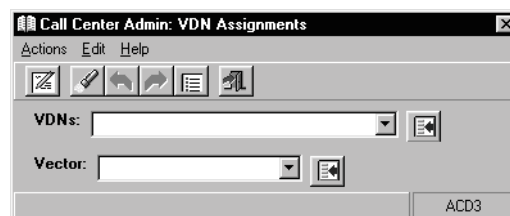
1. From the Controller Window, select **Commands > Call Center Administration**.

Supervisor displays the **Call Center Administration** window.



2. In the **ACD:** field, select the ACD on which the VDNs and vectors reside.
3. In the **Operations:** list, highlight **VDN Assignments**.
4. Select **OK**.

Supervisor displays the **VDN Assignments** window.



5. In the **VDNs:** field, enter the name or number of the VDN that is to be reassigned.
6. Select **Actions > Find one** from the menu bar.

Supervisor displays the vector to which this VDN is currently assigned in the **Vector:** field.

Administering the contact center configuration

7. In the **Vector:** field, enter the new vector for the specified VDN.

8. Select **Actions > Modify** from the menu bar.

The status bar displays a **Successful** message once the operation completes.

VDN call profiles

Call profiles are time ranges for a VDN that CMS uses to track how much time passes before a call is resolved by being answered, connected to a non-ACD destination, or abandoned. CMS refers to these time ranges as *service-level increments*. The accumulated number of seconds that pass for an unanswered call are divided into different service-level increments. If a call surpasses the time that is allowed for the first service-level increment, it then moves to the next service-level increment. This information is recorded for each call and can later be viewed through the VDN call profile reports to determine the number of calls that were addressed in each increment.

Contents

This section contains the following procedures:

- [Adding a VDN call profile](#) on page 321
- [Viewing an existing VDN call profile](#) on page 323
- [Modifying a VDN call profile](#) on page 325
- [Deleting a VDN call profile](#) on page 327

Before you begin

The following items should be read and understood before work is done with VDN call profiles.

- When installed, CMS sets all service-level increments to 0 by default. This causes all calls to appear in the first increment on the VDN call profile report.
- Each service level can be set to different lengths of time.
- Service-level increments can only be used to categorize a call to a maximum limit of 999 seconds.
- The number of seconds for the second through the ninth increment must be at least 1 second greater than the number of seconds in the previous increment. For example, if the second increment covers the range of **5 to 10** seconds, the maximum value in the third increment must be set to **11** or greater.
- Making changes to the service level field after data was collected with another service level value causes reports to give inaccurate data for the **Percent within Service Level** value. If you must change the service level, it is best to change the value at midnight on the first day of a month so that data for the entire month is gathered using the same service level value.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view a VDN call profile, the user ID used to log in to this *Supervisor* session requires *read* permission for the Call Center Administration subsystem and all affected VDNs.
- To add, delete, or change a VDN call profile, the user ID used to log in to this *Supervisor* session requires *write* permission for the Call Center Administration subsystem and all affected VDNs.

Adding a VDN call profile

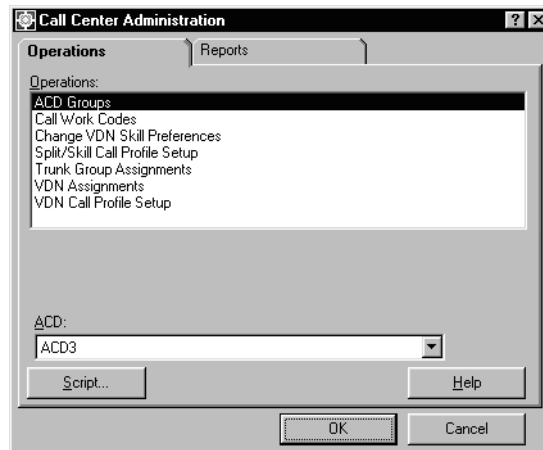
This section provides the procedure for adding a VDN call profile to an ACD.

Steps

To add a VDN call profile:

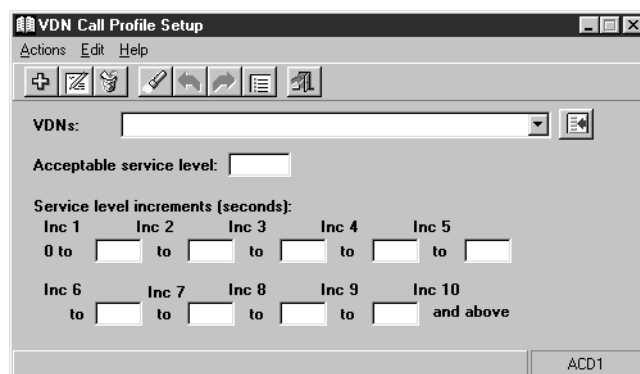
1. From the Controller Window, select **Commands > Call Center Administration**.

Supervisor displays the **Call Center Administration** window.



2. In the **ACD:** field, select the ACD on which the VDN call profile will be added.
3. In the **Operations:** list, highlight **VDN Call Profile Setup**.
4. Select **OK**.

Supervisor displays the **VDN Call Profile Setup** window.



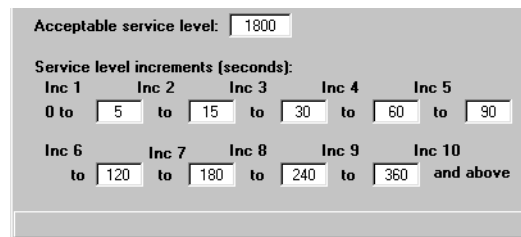
Administering the contact center configuration

5. In the **VDNs:** field, enter the name or number of the VDN which will have a new call profile.
6. In the **Acceptable service level:** field, enter the maximum number of seconds in which a VDN call should be addressed.

This value can range from **0** to **3600**. However, the value should be no larger than the number of seconds in the intrahour interval that is set on *CMS*, for example, **1800** for a half-hour intrahour interval or **3600** for an hour-long intrahour interval.

7. In each **Service level increments (seconds):** field, enter a progressively larger number of seconds in each **to** field.

The following example shows how an administrator might set up a VDN call profile:



Acceptable service level:	
1800	
Service level increments (seconds):	
Inc 1	Inc 2
0 to 5	to 15
Inc 3	Inc 4
15 to 30	to 60
Inc 5	Inc 6
60 to 90	to 120
Inc 7	Inc 8
120 to 180	to 240
Inc 9	Inc 10
240 to 360	360 and above

The **Acceptable service level:** field, is set to **1800** seconds to correspond with the intrahour interval that is used on the *CMS* server.

Inc 1 is set to a range of **0 to 5** seconds. **Inc 2** ranges is set to a range of **5 to 15** seconds. If the call is not resolved, *CMS* continues to process the call through the other service-level increments until **Inc 10**. The **Inc 10** service-level increment is used in this example for those calls that extend beyond 360 seconds. If a call is not addressed after the acceptable service level of 1800 seconds, the call is then tracked in a different *CMS* database category.

8. Select **Actions > Add** from the menu bar.

The status bar displays a **Successful** message when the operation completes.

Viewing an existing VDN call profile

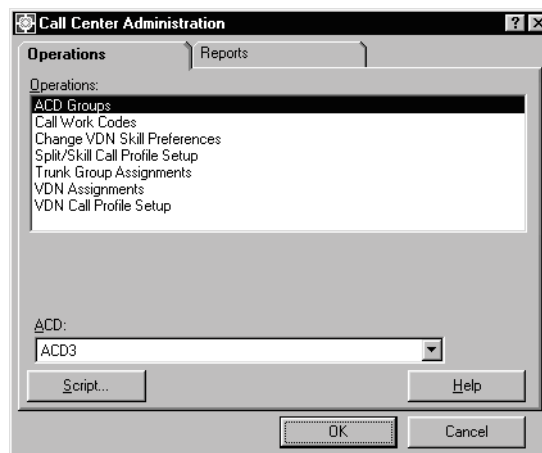
This section provides the procedure for viewing a VDN call profile that already exists on an ACD.

Steps

To view an existing VDN call profile:

1. From the Controller Window, select **Commands > Call Center Administration**.

Supervisor displays the **Call Center Administration** window.

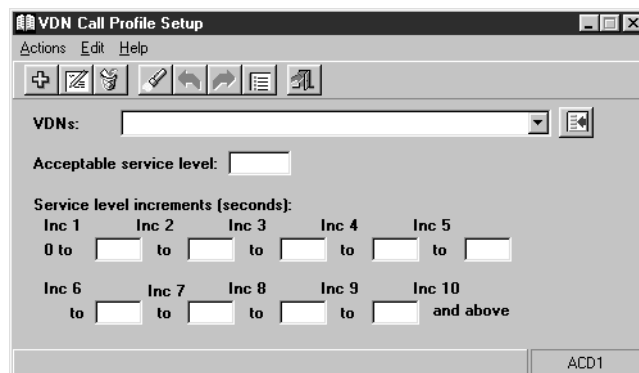


2. In the **ACD:** field, select the ACD on which the VDN call profile will be added.

3. In the **Operations:** list, highlight **VDN Call Profile Setup**.

4. Select **OK**.

Supervisor displays the **VDN Call Profile Setup** window.



Administering the contact center configuration

5. In the **VDNs:** field, enter the name or number of the VDN for which the associated call profile is to be viewed.
6. Select **Actions > Find one** from the menu bar.

Supervisor populates the remaining fields on the **VDN Call Profile Setup** window with the call profile settings for this VDN. If no call profile has been created for this VDN, the **Service level increments (seconds):** values are set to **0**.

Modifying a VDN call profile

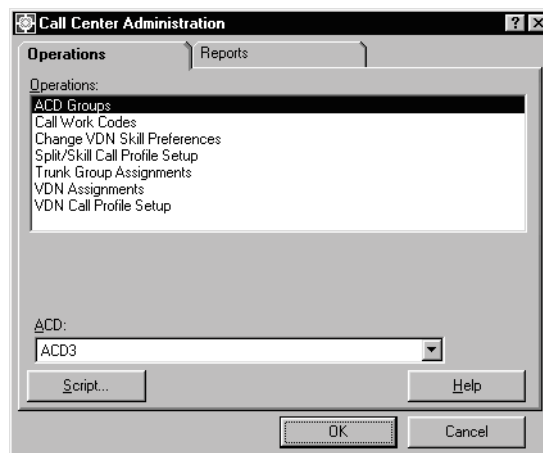
This section provides the procedure for modifying a VDN call profile that already exists on an ACD.

Steps

To modifying an existing VDN call profile:

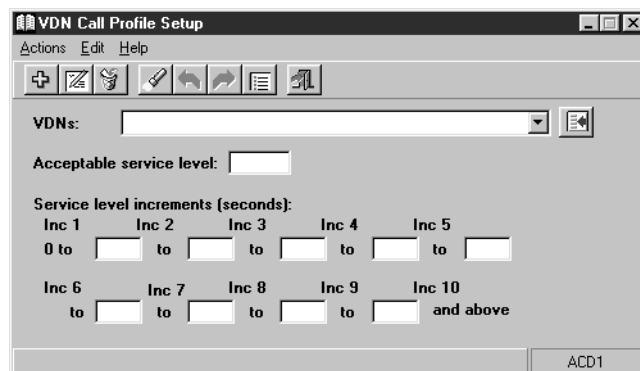
1. From the Controller Window, select **Commands > Call Center Administration**.

Supervisor displays the **Call Center Administration** window.



2. In the **ACD:** field, select the ACD on which the VDN call profile will be modified.
3. In the **Operations:** list, highlight **VDN Call Profile Setup**.
4. Select **OK**.

Supervisor displays the **VDN Call Profile Setup** window.



5. In the **VDNs:** field, enter the name or number of the VDN for which the associated call profile is to be modified.

6. Select **Actions > Find one** from the menu bar.

Supervisor populates the remaining fields on the **VDN Call Profile Setup** window with the call profile settings for this VDN. If no call profile has been created for this VDN, the **Service level increments (seconds)**: values are set to **0**.

7. Enter new values in the appropriate fields:

- Enter a new value in the **Acceptable service level** field to match the intrahour interval that is set on the *CMS* server.
- Enter new ranges of time in the **Service level increments (seconds)**: fields as needed.

8. Select **Actions > Modify** from the menu bar.

The status bar displays a **Successful** message when the operation completes.

Deleting a VDN call profile

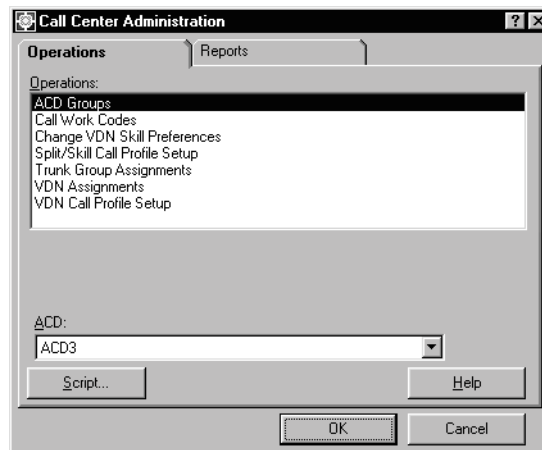
This section provides the procedure for deleting an existing VDN call profile on an ACD.

Steps

To delete an existing VDN call profile:

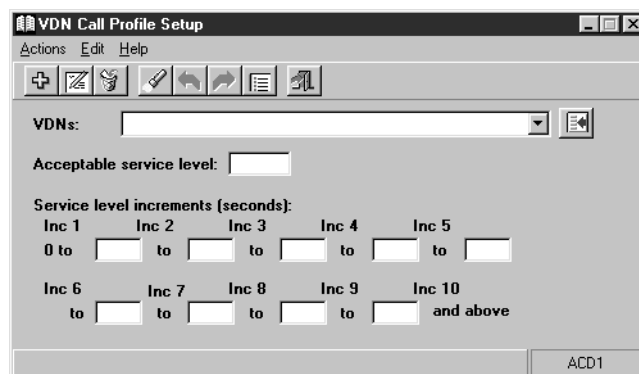
1. From the Controller Window, select **Commands > Call Center Administration**.

Supervisor displays the **Call Center Administration** window.



2. In the **ACD:** field, select the ACD on which the VDN call profile will be deleted.
3. In the **Operations:** list, highlight **VDN Call Profile Setup**.
4. Select **OK**.

Supervisor displays the **VDN Call Profile Setup** window.



5. In the **VDNs:** field, enter the name or number of the VDN for which the associated call profile is to be deleted.

Administering the contact center configuration

6. Select **Actions** > **Find one** from the menu bar.

Supervisor displays the call profile data for the selected VDN in the **Acceptable service level:** and **Service level increments (seconds):** fields.

7. Select **Actions** > **Delete** from the menu bar.

The status bar displays a **Successful** message when the operation completes.

Vector configuration report

Vector configuration reports display the following items that are associated with a vector:

- Trunk group
- Trunk group name
- VDN
- VDN name
- Vector
- Vector name
- 1st, 2nd, and 3rd skill preferences
- 1st, 2nd, and 3rd skill names

Contents

This section contains the following topic:

- [Running vector configuration reports](#) on page 331

Before you begin

The following items should be read and understood before running vector configuration reports:

- A vector may appear in a report even if it is not associated with a trunk group or VDN.
- A vector may appear in a report even if it does not contain any steps.
- A custom or designer report cannot be created from a vector configuration report.
- A **go to vector** step can cause a trunk group or VDN to carry calls to another vector to which the VDN being used is not assigned. Trunk groups and VDNs that carry calls to a secondary vector in this manner do not appear in the vector configuration report for those secondary vectors.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view a vector configuration report, the user ID used to log in to this *Supervisor* session requires *read* permission for the Call Center Administration subsystem and all vectors to be listed on the report. Permissions are not required for the trunk groups and VDNs that are associated with the specified vectors.

Running vector configuration reports

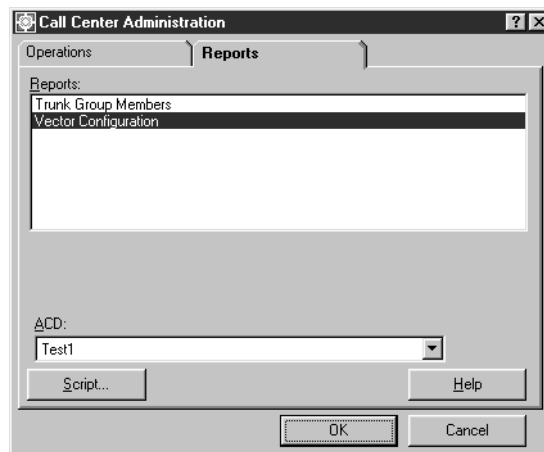
This section provides the procedure for running a vector configuration report.

Steps

To run a vector configuration report:

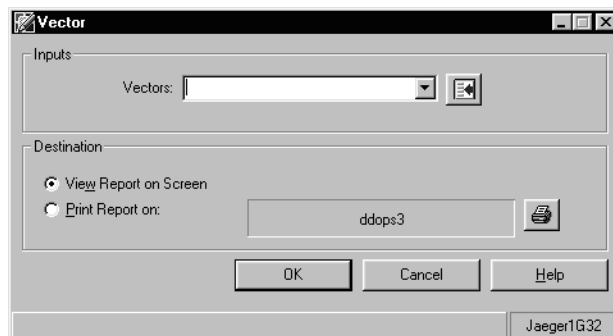
1. From the Controller Window, select **Commands > Call Center Administration**.

Supervisor displays the **Call Center Administration** window.



2. Select the **Reports** tab.
3. In the **ACD:** field, select the ACD containing the vector on which the report will be run.
4. In the **Reports** list, highlight **Vector Configuration**.
5. Select **OK**.

Supervisor displays the **Vector** window.



Administering the contact center configuration

6. In the **Vectors:** field, enter the name or number of the vector for which the report will be run.

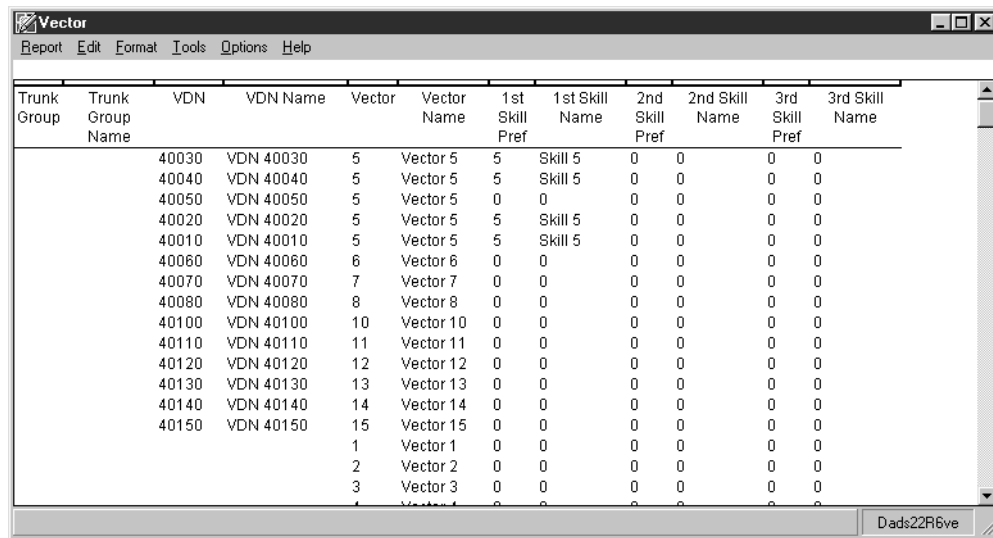
Multiple vectors can be entered in this field but must be separated by a semicolon (;).

7. In the **Destination** group, select the output option of the report:

- **View Report on Screen** - The report is displayed on the screen.
- **Print Report on:** - Sends the report to the printer that is specified in the associated field. To change the specified printer, select the **Select printer** button located on the right side of this group.

8. Select **OK**.

Supervisor runs the report and sends it to the specified destination.



The screenshot shows a window titled "Vector" with a menu bar (Report, Edit, Format, Tools, Options, Help) and a table of data. The table has columns for Trunk Group, Trunk Group Name, VDN, VDN Name, Vector, Vector Name, 1st Skill Pref, 1st Skill Name, 2nd Skill Pref, 2nd Skill Name, 3rd Skill Pref, and 3rd Skill Name. The data is organized by VDN, with Vectors 1 through 15 listed for VDNs 40030 through 40150. Skills are listed as Skill 5 for Vectors 1-5 and Skill 1, 2, and 3 for Vectors 6-15. The bottom right of the window shows the user "Dads22R6ve".

Trunk Group	Trunk Group Name	VDN	VDN Name	Vector	Vector Name	1st Skill Pref	1st Skill Name	2nd Skill Pref	2nd Skill Name	3rd Skill Pref	3rd Skill Name
		40030	VDN 40030	5	Vector 5	5	Skill 5	0	0	0	0
		40040	VDN 40040	5	Vector 5	5	Skill 5	0	0	0	0
		40050	VDN 40050	5	Vector 5	0	0	0	0	0	0
		40020	VDN 40020	5	Vector 5	5	Skill 5	0	0	0	0
		40010	VDN 40010	5	Vector 5	5	Skill 5	0	0	0	0
		40060	VDN 40060	6	Vector 6	0	0	0	0	0	0
		40070	VDN 40070	7	Vector 7	0	0	0	0	0	0
		40080	VDN 40080	8	Vector 8	0	0	0	0	0	0
		40100	VDN 40100	10	Vector 10	0	0	0	0	0	0
		40110	VDN 40110	11	Vector 11	0	0	0	0	0	0
		40120	VDN 40120	12	Vector 12	0	0	0	0	0	0
		40130	VDN 40130	13	Vector 13	0	0	0	0	0	0
		40140	VDN 40140	14	Vector 14	0	0	0	0	0	0
		40150	VDN 40150	15	Vector 15	0	0	0	0	0	0
				1	Vector 1	0	0	0	0	0	0
				2	Vector 2	0	0	0	0	0	0
				3	Vector 3	0	0	0	0	0	0

Chapter 8: Administering exceptions

An *exception* is a type of activity in the ACD that falls outside the limits that have been defined and could indicate unacceptable performance. Exceptions are gathered on agents, splits/skills, trunk groups, VDNs, vectors, and unusual events such as Malicious Call Trace and disruptions in data collection. This chapter describes the operations, prerequisites, and rules for administering exceptions and the different types of exception reports that are available.

You can administer exceptions and generate reports for VDNs and vectors if your company has purchased the Call Vectoring feature.

You can administer exceptions and generate reports for skills if your company has purchased the Expert Agent Selection (EAS) feature.

This chapter provides the procedures for administering exceptions, running the Real-time Exception Log report, and running other exception reports for the following exception areas:

- Agent
- Split/skill
- Trunk group
- VDN
- Vector
- Data Collection
- Malicious call trace
- Real-time exceptions log

Contents

This section contains the following topics:

- [Exception notification](#) on page 339
- [Agent exceptions](#) on page 341
- [Split/skill exceptions](#) on page 357
- [Trunk group exceptions](#) on page 371
- [VDN exceptions](#) on page 383
- [Vector exceptions](#) on page 397

Administering exceptions

- [Data collection exceptions report](#) on page 411
- [Malicious call trace report](#) on page 415
- [Real-time exceptions log](#) on page 419

Types of Exceptions

An exception can be one of three types:

- Peg count
- Agent timed
- Other timed exceptions

Peg count exceptions

A peg count exception occurs when the number of occurrences of an ACD activity exceeds an occurrence threshold that is defined for your contact center in the current interval.

The current interval is a set number of either 15, 30, or 60 minutes. Many *CMS* exceptions are measured based on this interval.

Most exception conditions apply to ACD events that occur within the current interval that is defined for your contact center. When the current interval changes, ACD event occurrences are cleared and *CMS* begins to count event occurrences again. Therefore, your exception conditions should realistically reflect what you want to trigger an exception within your current interval.

Agent timed exceptions

Agent timed exceptions are tracked from the time that the agent logs in until the agent logs out. These exceptions can occur many times during the login period and within an interval. The exception count is cleared when the agent leaves the state that triggered the exception.

For example, an agent timed exception could be configured to occur whenever an agent spends more than 5 minutes in the AUX work mode. Then, when an agent spends longer than 5 minutes in the AUX work mode, an exception is triggered for that agent. When the agent changes to another state, such as AVAIL, the exception is reset so that it can occur again when the agent reenters the AUX work mode.

Other timed exceptions

Other timed exceptions are triggered when the number of ACD activity occurrences exceeds the minimum or maximum time limits that are set for such activity.

For example, you may set the time limit at 20 seconds for any call to wait in queue before being answered. You may then define an occurrence boundary of three for the acceptable number of calls that can wait in the queue for 20 seconds. An exception occurs if more than three calls wait in the queue longer than 20 seconds within an interval.

Timed occurrence boundaries for this type of exception apply to ACD activity within the last interval. At the beginning of the next interval, the occurrence count for any timed exception type, except for agent timed exceptions, is cleared and starts again from zero. However, since the time limit for a timed exception type can be more than 1 hour, the duration of an exception activity is not cleared at the end of the intrahour interval. *CMS* continues to track the time that is spent on an exception activity that continues from one interval to the next for this type of exception.

Notification

The status bar of the *Supervisor* Controller window shows the current exception total for both the peg count and time exceptions. This exception total is for all of the ACDs for which you have permission to view exceptions. The exception count is cleared at the end of each interval and can display a maximum number of 9999.

The PC on which *Supervisor* is running is, by default, configured to beep each time an exception occurs. Changing this setting can be done by selecting **Options > General** on the *Supervisor* menu bar.

Exception capacities

CMS requires that storage space be defined on the server for the purpose of recording the activities of the contact center. The recording of exceptions also uses this storage space. The following items provide information on the limits for recording exceptions:

- *CMS* can store a maximum of 2000 exception records of each element on all ACDs. Therefore, your contact center can store up to 2000 agent, 2000 split/skill, 2000 trunk group, 2000 VDN, and 2000 vector exception records across all ACDs.
- Exception retrieval capacity is the number of days in the past for which you can retrieve exceptions. This is determined by the following criteria:
 - The number of exception records that are allocated for storage in the **Data Storage** operation in the **System Setup** window. The maximum number of exception records of each entity that can be stored is 2000 across all ACDs.
 - The frequency with which exceptions are recorded each day. For example, if you allocate storage for 1000 exception records and approximately 100 exceptions occur each day, you can save exception records for nearly 10 days.

Before you begin

The following items should be read and understood before you begin working with exceptions:

- If an ACD Group is selected as the current ACD in the **Exceptions** window, only those operations that are valid for the ACD Group will appear in the **Operations:** list.

Rules for administering exceptions

When exception thresholds are configured, the following rules must be followed:

- The occurrence threshold for any exception must be between 0 to 999.
- The time limit for timed exceptions must be between 0 to 28800 seconds.
- If a time limit is entered for an activity, an occurrence threshold for that activity must also be entered.
- When an exception is made active, *CMS* starts checking for the exception immediately as long as data collection is activated.
- When at least one exception is added to an entity, any future additions must be made by using the **Modify** item on the **Action** menu.
- When exceptions are being modified, the **Find one** menu item should always be used to retrieve the current settings for the exception before any changes are made.
- The default setting for most exceptions is *off*. However, the following exceptions are always active and cannot be stopped:
 - Malicious call trace
 - Data collection disruptions
 - Audio difficulty
 - Agent attempts to log in with more than one login ID

Permissions

The following table describes the permission settings that are required in order for a user to access exception information:

Does the user have <i>read</i> permission for the Exceptions feature?	... and <i>exceptions</i> permission for splits/skills, trunk groups, ACDs, vectors, and VDNs?	Then, the user can use the following exception information:
yes	yes	● Exception reports ● Messages in the Real-Time Exception Log ● Real-time notification of exceptions
yes	no	● Exceptions reports
no	yes	● Real-time notification of exceptions
no	no	● No exceptions features available to this user

Setting the exception permissions for these entities can be done through **Tools > User Permissions** on the *Supervisor* Controller window.

Other permissions

To set up or change the method in which the system checks for exceptions, the user ID used to log in to this *Supervisor* session requires the *write* permission for the Exceptions feature.

To be notified of a malicious call exception, the user ID used to log in to this *Supervisor* session requires the *exception* permission for the appropriate contact center entity.

Exception notification

An *exception notification* is a beep that is sounded by *Supervisor* when an exception is encountered. By default, this occurs when the user who is currently logged in to *Supervisor* has the *exceptions* permission for the entity on which the exception occurred. If you do not want *Supervisor* to beep when an exception occurs, follow the procedure in this section.

Contents

This section contains the following topic:

- [Changing exception notification](#) on page 340

Changing exception notification

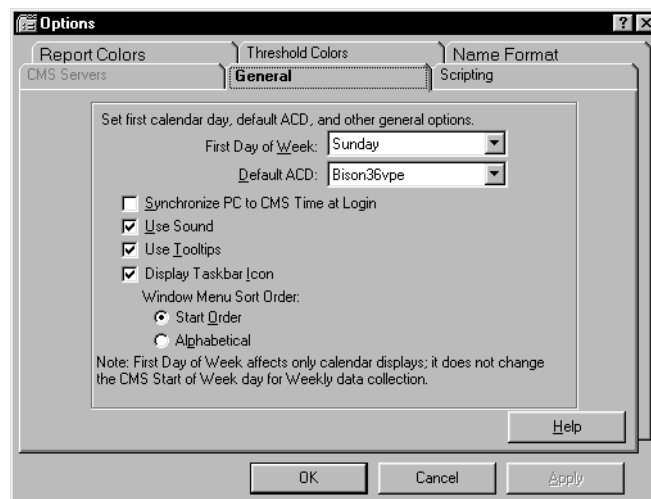
This section provides the procedure for changing whether the beep notification is sounded when an exception occurs.

Steps

To change the exception notification:

1. From the Controller window, select **Tools > Options**.

Supervisor displays the **Options** window.



2. Select the **General** tab.
3. Perform one of the following actions:
 - To activate exception notification, place a check mark in the **Use Sound** check box.
 - To turn off exception notification, remove the check mark in the **Use Sound** check box.
4. Select **OK**.

Agent exceptions

Agent exceptions can occur for many different activities in relation to an agent. These can include the amount of time on a call or in a work state, the number of calls that an agent has in queue, and other activities. This section provides the procedure for configuring if and when these exceptions are checked by *CMS*.

Contents

This section contains the following topic:

- [Adding agent exceptions](#) on page 343
- [Modifying agent exceptions](#) on page 346
- [Deleting agent exceptions](#) on page 349
- [Agent exception definitions](#) on page 351
- [Agent exceptions report](#) on page 354

Before you begin

The following items should be read and understood before working with agent exceptions:

- Agent exceptions are assigned per split/skill and not for each agent. When an agent logs into a split/skill, any exceptions that are configured for that split/skill are applied to the agent.
- *External outbound exceptions* are a subset of *outbound exceptions*. If both types of exceptions are administered, the limit for external outbound covers external outbound calls and the limit for outbound covers only internal outbound calls.
- The agent exceptions record for a split/skill are not created by default in the *CMS* database when the split/skill is created. If a split/skill does not have agent exceptions, an **Add** action must be taken to create the associated agent exceptions record.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view agent exceptions, the user ID used to log in to this *Supervisor* session requires *read* permission for the Exceptions subsystem and all affected splits/skills as well as the *exceptions* permission for the affected splits/skills.
- To add, delete, or modify agent exceptions, the user ID used to log in to this *Supervisor* session requires *write* permission for the Exceptions subsystem and all affected split/skills as well as the *exceptions* permission for the affected splits/skills.

Adding agent exceptions

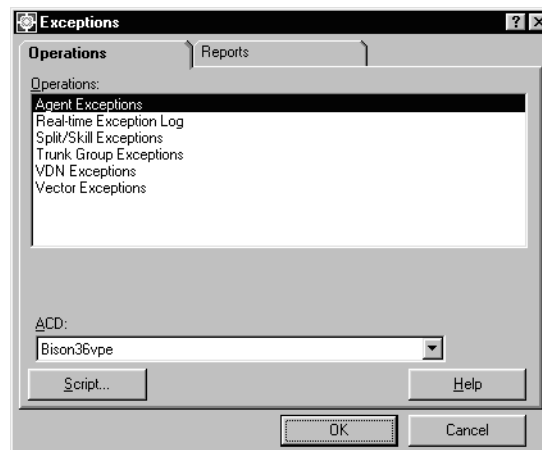
This section provides the procedure for adding agent exceptions for a split/skill.

Steps

To add agent exceptions for a split/skill:

1. From the Controller window, select **Commands > Exceptions** on the menu bar.

Supervisor displays the **Exceptions** window.

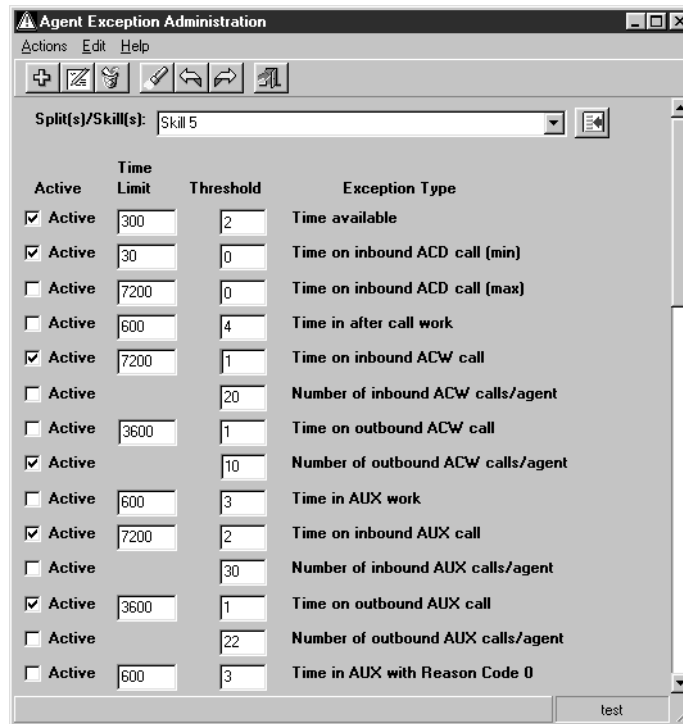


2. In the **ACD:** field, select the ACD for the split/skill where agent exceptions are to be created.
3. In the **Operations:** list, highlight **Agent Exceptions**.

Administering exceptions

4. Select **OK**.

Supervisor displays the **Agent Exceptions Administration** window.



The image shows a screenshot of the 'Agent Exception Administration' window. It has a menu bar with 'Actions', 'Edit', and 'Help'. Below the menu bar is a toolbar with icons for adding, deleting, and other actions. A dropdown menu labeled 'Split(s)/Skill(s):' is set to 'Skill 5'. The main area contains a table with columns: 'Active', 'Time Limit', 'Threshold', and 'Exception Type'. The table lists 15 exceptions with their respective settings. A 'test' button is located at the bottom right of the window.

Active	Time Limit	Threshold	Exception Type
☒	300	2	Time available
☒	30	0	Time on inbound ACD call (min)
☐	7200	0	Time on inbound ACD call (max)
☐	600	4	Time in after call work
☒	7200	1	Time on inbound ACW call
☐		20	Number of inbound ACW calls/agent
☐	3600	1	Time on outbound ACW call
☒		10	Number of outbound ACW calls/agent
☐	600	3	Time in AUX work
☒	7200	2	Time on inbound AUX call
☐		30	Number of inbound AUX calls/agent
☒	3600	1	Time on outbound AUX call
☐		22	Number of outbound AUX calls/agent
☐	600	3	Time in AUX with Reason Code 0

This window appears with all fields blank when first opened.

Note:

This is a scrolling dialog that contains more exceptions than those shown in the above graphic. Use the scroll bar on the right side of the dialog to view the other exceptions.

5. In the **Split(s)/Skill(s):** field, enter the name or number of the split/skill for which an agent exceptions configuration is to be created.

The **Split(s)/Skill(s):** field can accept multiple entries. Each entry must be separated by a semicolon (;).

6. Perform the following actions in the specified fields for each **Exception Type** that you want to monitor:
 - **Active** - Place a check mark in this check box to enable the exception and allow it to run and adhere to the parameters that are given in the other fields. Leaving this check box blank disables the exception and CMS will not attempt to track the activity for this exception.
 - **Time Limit** - Enter the time limit in seconds (0 to 28800) for those exception types that use a time limit. This value is used as the minimum or maximum amount of time for an activity depending on the type of exception. If this limit is surpassed, CMS counts this activity and compares it against the **Threshold** field. This field requires an entry and cannot be left blank.
 - **Threshold** - Enter the number of acceptable occurrences of this activity (0 to 999). Any occurrences beyond this number will generate an exception. If you want CMS to create an exception on the very first instance, enter **0** in this field. This field requires an entry and cannot be left blank.
7. When all necessary time limits and thresholds have been entered, select **Actions > Add** from the menu bar.

The exception configuration data will be saved for this split/skill and the status bar displays a **Successful** message.

Modifying agent exceptions

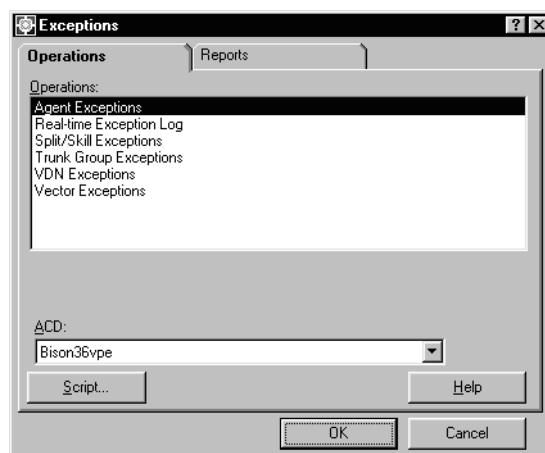
This section provides the procedure for modifying the existing agent exception configuration for a split/skill.

Steps

To modify an existing agent exception configuration:

1. From the Controller window, select **Commands > Exceptions**.

Supervisor displays the **Exceptions** window.



2. In the **ACD:** field, select the ACD on which the split/skill to modify for agent exceptions resides.
3. In the **Operations:** list, highlight **Agent Exceptions**.

4. Select **OK**.

Supervisor displays the **Agent Exceptions Administration** window.

Active	Time Limit	Threshold	Exception Type
☒	300	2	Time available
☒	30	0	Time on inbound ACD call (min)
☐	7200	0	Time on inbound ACD call (max)
☐	600	4	Time in after call work
☒	7200	1	Time on inbound ACW call
☐		20	Number of inbound ACW calls/agent
☐	3600	1	Time on outbound ACW call
☒		10	Number of outbound ACW calls/agent
☐	600	3	Time in AUX work
☒	7200	2	Time on inbound AUX call
☐		30	Number of inbound AUX calls/agent
☒	3600	1	Time on outbound AUX call
☐		22	Number of outbound AUX calls/agent
☐	600	3	Time in AUX with Reason Code 0

Note:

This is a scrolling dialog that contains more exceptions than those shown in the above graphic. Use the scroll bar on the right side of the dialog to view the other exceptions.

5. In the **Split(s)/Skill(s):** field, enter the name or number of the split/skill for which the agent exceptions configuration is to be modified.
6. From the menu bar, select **Actions > Find one**.

Supervisor locates the agent exception configuration for the specified split/skill and displays the data in the appropriate fields. If the exception configuration data cannot be found, the status bar displays **0 matches found**.

To return all splits/skills, leave the **Split(s)/Skill(s):** field blank before performing the **Find one** action. *Supervisor* will return all split(s)/skill(s) for which you have the *read* permission. You can then use the **Next** and **Previous** menu actions to cycle through the splits/skills.

Administering exceptions

7. Perform the following actions in the specified fields for each **Exception Type** that you want to monitor:

- **Active** - Place a check mark in this check box to enable the exception and allow it to run and adhere to the parameters that are given in the other fields. Leaving this check box blank disables the exception and *CMS* will not attempt to track the activity for this exception.
- **Time Limit** - Enter the time limit in seconds (0 to 28800) for those exception types that use a time limit. This value is used as the minimum or maximum amount of time for an activity depending on the type of exception. If this limit is surpassed, *CMS* counts this activity and compares it against the **Threshold** field. This field requires an entry and cannot be left blank.
- **Threshold** - Enter the number of acceptable occurrences of this activity (0 to 999). Any occurrences beyond this number will generate an exception. If you want *CMS* to create an exception on the very first instance, enter **0** in this field. This field requires an entry and cannot be left blank.

8. When all necessary time limits and thresholds have been modified, select **Actions > Modify** from the menu bar.

Supervisor updates the data for this split/skill and displays a **Successful** message in the status bar.

Deleting agent exceptions

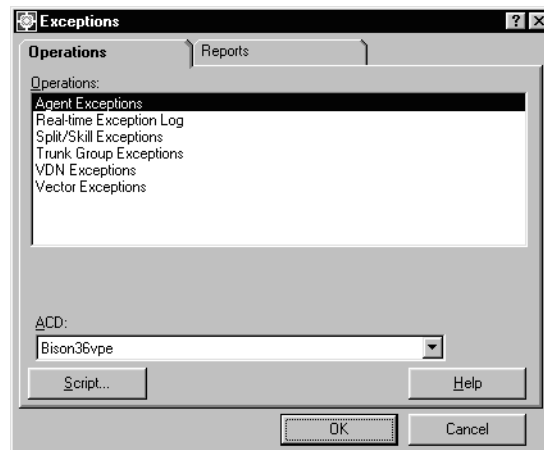
This section provides the procedure for deleting the agent exceptions for a split/skill.

Steps

To delete agent exceptions:

1. From the Controller Window, select **Commands > Exceptions**.

Supervisor displays the **Exceptions** window.



2. In the **ACD:** field, select the ACD on which the split/skill to delete resides.
3. In the **Operations:** list, highlight **Agent Exceptions**.

Administering exceptions

4. Select **OK**.

Supervisor displays the **Agent Exceptions Administration** window.

Active	Time Limit	Threshold	Exception Type
☒	300	2	Time available
☒	30	0	Time on inbound ACD call (min)
☐	7200	0	Time on inbound ACD call (max)
☐	600	4	Time in after call work
☒	7200	1	Time on inbound ACW call
☐		20	Number of inbound ACW calls/agent
☐	3600	1	Time on outbound ACW call
☒		10	Number of outbound ACW calls/agent
☐	600	3	Time in AUX work
☒	7200	2	Time on inbound AUX call
☐		30	Number of inbound AUX calls/agent
☒	3600	1	Time on outbound AUX call
☐		22	Number of outbound AUX calls/agent
☐	600	3	Time in AUX with Reason Code 0

Note:

This is a scrolling dialog that contains more exceptions than those shown in the above graphic. Use the scroll bar on the right side of the dialog to view the other exceptions.

5. In the **Split(s)/Skill(s):** field, enter the name or number of the split/skill for which an agent exceptions configuration is to be deleted.
6. From the menu bar, select **Actions > Find one**.

Supervisor locates the agent exception configuration for the specified split/skill and displays the data in the appropriate fields. If exception configuration data cannot be found, the status bar displays **0 matches found**.

To return all splits/skills, leave the **Split(s)/Skill(s):** field blank before performing the **Find one** action. *Supervisor* will return all split(s)/skill(s) for which you have the *read* permission. You can then use the **Next** and **Previous** menu actions to cycle through the splits/skills.

7. From the menu bar, select **Actions > Delete**.

Supervisor deletes the agent exception configuration for this split/skill from the *CMS* database and displays a **Successful** message in the status bar.

Agent exception definitions

The following table provides the definitions for the different agent exceptions:

<i>Exception</i>	<i>Definition</i>
Time available	The time that an agent spends in AVAIL (this is idle time).
Time on inbound ACD call (minimum)	The minimum time that an agent spends on an ACD call.
Time on inbound ACD call (maximum)	The maximum time that an agent spends on an ACD call.
Time in after-call work (maximum)	The maximum time that an agent spends on after-call work.
Time on inbound ACW call (maximum)	The maximum time that an agent spends on an inbound call during after-call work.
Number of inbound ACW calls/agent	The total number of inbound calls that an agent can receive during after-call work. This exception can only be triggered once per interval.
Time on outbound ACW call (maximum)	The maximum time that an agent spends on an outbound call during after-call work.
Number of outbound ACW calls/agent	The total number of outbound calls that an agent can make during after-call work. This exception can only be triggered once per interval.
Time in AUX work (maximum)	The maximum time that an agent spends doing auxiliary work.
Time on inbound AUX call	The maximum time that an agent spends on an inbound call during auxiliary work.
Number of inbound AUX calls/agent	The total number of inbound calls that an agent can receive during auxiliary work. This exception can only be triggered once per interval.
Time on outbound AUX call (maximum)	The maximum time that an agent spends on an outbound call during auxiliary work.
Number of outbound AUX calls/agent	The total number of outbound calls that an agent can place during auxiliary work. This exception can only be triggered once per interval.

Administering exceptions

Time in AUX with Reason Code X (maximum)	The maximum time that agents can spend doing auxiliary work with Reason Code X (X is from 0 to 9).
Login Identification	Select Active to receive a notification of a login violation. A violation occurs when an agent attempts to log in with an ID that is not in the Dictionary or if an agent tries to log in with more than one ID at the same terminal. If you deactivate this exception, you are not notified if an agent logs in with an ID that is not in the Dictionary, but you still are notified if an agent tries to log in with more than one ID.
Time on outbound ACD call (minimum)	The minimum time that an agent spends on an outbound ACD call.
Time on outbound ACD call (maximum)	The maximum time that an agent spends on an outbound ACD call.
Number calls transferred	The maximum number of calls that an agent can transfer.
Time ACD call spent on hold (maximum)	The maximum time that an agent can put an ACD call on hold. This time value is cumulative for each call. If an agent removes a call from hold and places it back on hold again, this value is not reset.
Number ACD calls placed on hold (maximum)	The maximum number of ACD calls that an agent can put on hold. This exception can only be triggered once per interval.
Number ACD calls abandoned while on hold (maximum)	The maximum number of calls that are abandoned after being put on hold by an agent. This exception can only be triggered once per interval.
Time ACD call spends ringing (maximum)	The maximum time that a split/skill or direct agent ACD call can ring at agent's voice terminal before an exception is triggered.
Ringing call automatically redirected from agent	Select Active to be notified when an agent lets an ACD call ring at the voice terminal long enough for the switch to automatically redirect the call. You must have the Redirection on No Answer feature activated on the MultiVantage system to use this exception.
Time on direct agent call (maximum)	The maximum number of seconds that an agent spends on a direct agent ACD call.
Number calls in direct agent queue (maximum)	The maximum number of direct agent ACD calls that an agent can have waiting in queue.
Time call waited in direct agent queue (maximum)	The maximum time that any call waits in the direct agent queue.

Number calls abandoned from direct agent queue (maximum)	The maximum number of direct agent ACD calls that can leave the direct agent queue by abandoning before an exception is triggered. This exception can only be triggered once per interval.
Number calls outflowed from direct agent queue (maximum)	The maximum number of direct agent calls that outflow from the direct agent queue. This exception can only be triggered once per interval.
Time on external outbound ACW call (maximum)	The maximum number of seconds that an agent spends on an external outbound call during after-call work.
Number of external outbound ACW calls/agent (maximum)	The maximum number of external outbound calls that an agent can make while in after-call work. This exception can only be triggered once per interval.
Time on external outbound AUX calls (maximum)	The maximum number of seconds an agent spends on an external outbound call during auxiliary work.
Number external outbound AUX calls/agent (maximum)	The maximum number of external outbound calls that an agent can make during auxiliary work. This exception can only be triggered once per interval.
Agent logged out with active/held calls	Select Active to be notified when an agent logs out with active or held calls on the voice terminal.
Logout attempt without valid reason code	The acceptable number of times that an agent can enter an invalid reason code when trying to log out. This exception can only be triggered once per interval.
AUX attempt without valid reason code	The acceptable number of times that an agent can enter an invalid AUX reason code. This exception can only be triggered once per interval.
Agent entered invalid call work codes	An exception that is pegged for CWC 0 (an agent types an unadministered call work code). This exception should be turned off if you are collecting call work codes in call records only.

Agent exceptions report

Use the agent exceptions report to view exceptions that have occurred for the selected agents. For each agent exception, the report shows the time, agent, and type of exception.

Before you begin

To be able to view data for an agent exception report, the following events must have occurred:

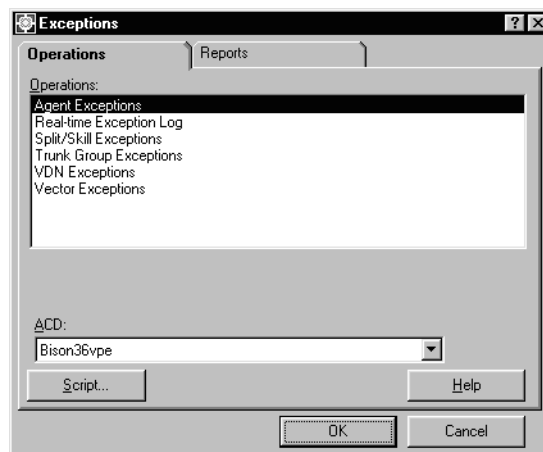
- One or more agent exceptions must have been activated.
- The exceptions must have occurred at some point. Otherwise, the report is blank.
- Active exceptions must be specified in the input window so that they are included in the report.

Steps

To run the agent exceptions report:

1. From the Controller window, select **Commands > Exceptions**.

Supervisor displays the **Exceptions** window.



2. Select the **Reports** tab.
3. In the **ACD:** field, select the ACD that contains the agents on which to run the report.
4. In the **Reports:** list, highlight **Agent Exceptions by Location**.

5. Select **OK**.

Supervisor displays the **Agent Exceptions** window.

6. In the **Date:** field, specify the date for the report in one of the following date formats:

- Enter the date in MM/DD/YY format, for example, **10/06/01**.
- Enter the relative date, for example, **0** for today, **-1** for yesterday, or **-7** for one week ago.
- Enter a relative date range, for example, **-9-0** causes the report to display data for the past ten days including today.
- Select a date from the drop-down list.
- Select a date by using the Browse button.

This is a required field.

7. In the **Split/Skill:** field, enter the name or number of the split/skill to display in the report.

This is a required field.

8. In the **Agents:** field, specify the name or number of the agents to display in the report.

This is a required field.

This field accepts the specification of multiple agents. Multiple values must be separated by a semicolon (;).

9. In the **Order by:** field, select one of the following sorting options:

- **Agent** - The report results are sorted by agent name or number.
- **Time** - The report results are sorted by the time that the exceptions occurred.

Administering exceptions

10. In the **Exceptions:** field, select one or more exceptions to include in the report.

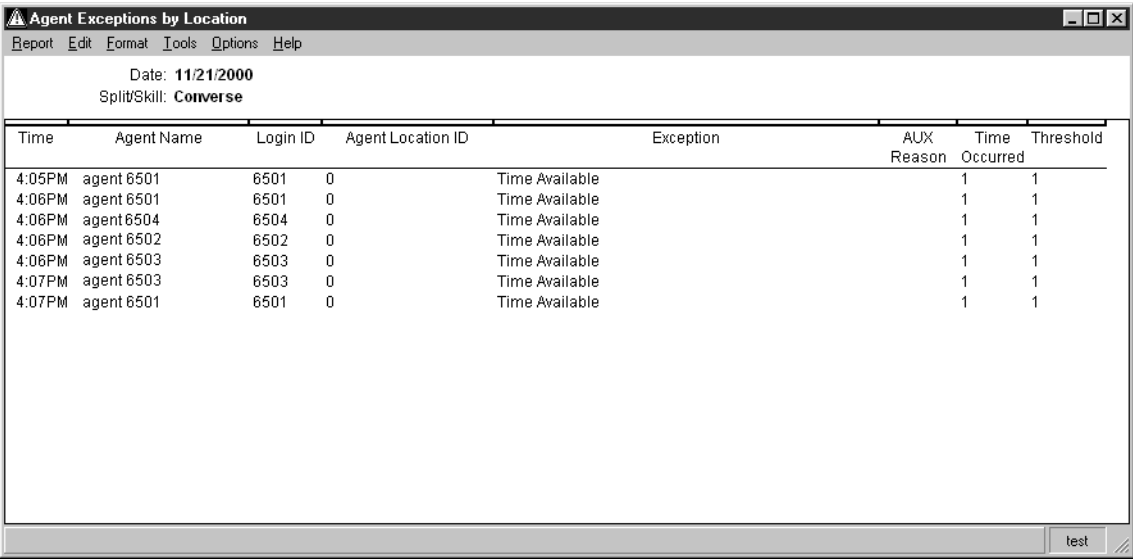
Select only those exceptions that are or have been activated during the date specified. If you select exceptions that have not been active during the date specified, the report does not display any data in the report.

11. In the **Destination** group, select the output option of the report:

- **View Report on Screen** - The report is displayed on the screen.
- **Print Report on:** - Sends the report to the printer that is specified in the associated field. To change the specified printer, select the **Select printer** button located on the right side of this group.

12. Select **OK**.

Supervisor runs the report and sends it to the specified destination.



Time	Agent Name	Login ID	Agent Location ID	Exception	AUX Reason	Time Occurred	Threshold
4:05PM	agent 6501	6501	0	Time Available		1	1
4:06PM	agent 6501	6501	0	Time Available		1	1
4:06PM	agent 6504	6504	0	Time Available		1	1
4:06PM	agent 6502	6502	0	Time Available		1	1
4:06PM	agent 6503	6503	0	Time Available		1	1
4:07PM	agent 6503	6503	0	Time Available		1	1
4:07PM	agent 6501	6501	0	Time Available		1	1

Split/skill exceptions

Using split/skill exceptions can help identify those splits/skills that need to be adjusted to achieve more efficiency in the contact center.

Split/skill exceptions can assist you in the identification of problems in the following areas:

- The length of time that calls wait for different handling options
- The number of calls that are directed through different handling options
- The average speed with which the calls are being answered

Contents

This section contains the following topics:

- [Adding split/skill exceptions](#) on page 359
- [Modifying split/skill exceptions](#) on page 361
- [Deleting split/skill exceptions](#) on page 364
- [Split/skill exception definitions](#) on page 366
- [Split/skill exceptions report](#) on page 368

Before you begin

The following items should be read and understood before working with split/skill exceptions:

- To administer exceptions for *skills*, your company must have purchased Expert Agent Selection (EAS). However, this feature is not needed to administer exceptions for *splits*.
- The split/skill exceptions configuration is not created by default in the *CMS* database when the split/skill is created. If a split/skill does not have an exceptions configuration, an **Add** action must be taken to create it.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view split/skill exceptions, the user ID used to log in to this *Supervisor* session requires *read* permission for the Exceptions subsystem and all affected splits/skills as well as the *exceptions* permission for all affected splits/skills.
- To add, delete, or modify split/skill exceptions, the user ID used to log in to this *Supervisor* session requires *write* permission for the Exceptions subsystem and all affected splits/skills as well as the *exceptions* permission for all affected splits/skills

Adding split/skill exceptions

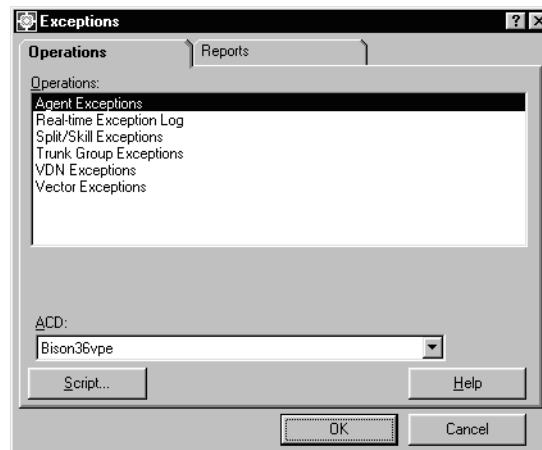
This section provides the procedure for adding split/skill exception configurations.

Steps

To add a split/skill exception configuration:

1. From the Controller window, select **Commands > Exceptions**.

Supervisor displays the **Exceptions** window.



2. In the **ACD:** field, select the ACD that contains the split/skill to receive the new exception configuration.
3. In the **Operations:** list, highlight **Split/Skill Exceptions**.

Administering exceptions

4. Select **OK**.

Supervisor displays the **Split/Skill Exception Administration** window.

Active	Time Limit	Threshold	Exception Type
☐	0	0	Time call has waited in queue
☐		0	Number calls waiting
☐		0	Number calls abandoned
☐	0	0	Average speed of answer (seconds)
☐		0	Number intraflowed-out calls
☐		0	Number intraflowed-in calls
☐		0	Number interflowed-out calls
☐		0	Number calls handled as backup
☐		0	Number calls transferred
☐		0	Number calls offered while queue full
☐	0	0	Expected Wait Time (pri Top) exceeds threshold
☐	0	0	Expected Wait Time (pri High) exceeds threshold
☐	0	0	Expected Wait Time (pri Medium) exceeds threshold

5. In the **Split(s)/Skill(s):** field, enter the name or number of the split/skill for which an exceptions configuration is to be created.

6. For each **Exception Type** that should be monitored, the following fields must be configured:

- **Active** - Place a check mark in this check box to enable the exception allowing it to run and adhere to the parameters given in the other fields. Leaving this check box blank will disable the exception and CMS will not attempt to track the activity for this exception.
- **Time Limit** - Set the time limit in seconds (0–28800) for exception types that use a time limit. This value is used as the minimum or maximum amount of time for an activity. If this limit is surpassed, CMS will count this activity and compare it against the **Threshold** field. This field requires an entry and cannot be left blank.
- **Threshold** - Enter the number of acceptable occurrences of this activity (0–999). Any occurrences beyond this number will generate an exception. If CMS should create an exception on the very first instance, enter **0** in this field. This field requires an entry and cannot be left blank.

7. When all necessary time limits and thresholds have been entered, select **Actions > Add** from the menu bar.

Supervisor saves the data for this split/skill and the status bar displays a **Successful** message.

Modifying split/skill exceptions

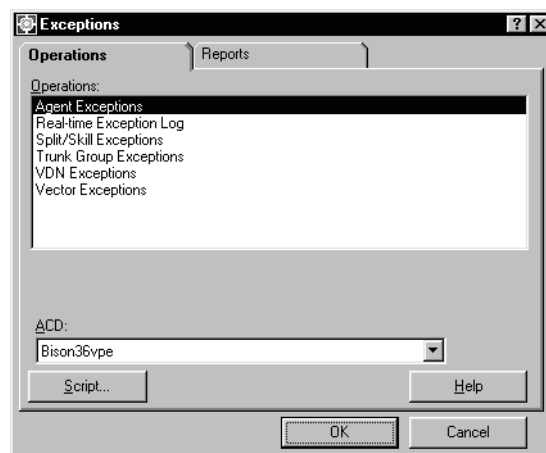
This section provides the procedure for modifying existing split/skill exception configurations.

Steps

To modify a split/skill exception configuration:

1. From the Controller window, select **Commands > Exceptions**.

Supervisor displays the **Exceptions** window.



2. In the **ACD:** field, select the ACD that contains the split/skill and its exception configuration.
3. In the **Operations:** list, highlight **Split/Skill Exceptions**.

Administering exceptions

4. Select **OK**.

Supervisor displays the **Split/Skill Exception Administration** window.

Active	Time Limit	Threshold	Exception Type
☐ Active	0	0	Time call has waited in queue
☐ Active		0	Number calls waiting
☐ Active		0	Number calls abandoned
☐ Active	0	0	Average speed of answer (seconds)
☐ Active		0	Number intraflowed-out calls
☐ Active		0	Number intraflowed-in calls
☐ Active		0	Number interflowed-out calls
☐ Active		0	Number calls handled as backup
☐ Active		0	Number calls transferred
☐ Active		0	Number calls offered while queue full
☐ Active	0	0	Expected Wait Time (pri Top) exceeds threshold
☐ Active	0	0	Expected Wait Time (pri High) exceeds threshold
☐ Active	0	0	Expected Wait Time (pri Medium) exceeds threshold

5. In the **Split(s)/Skill(s):** field, enter the name or number of the split/skill for which its exceptions configuration is to be modified.

6. From the menu bar, select **Actions > Find one**.

Supervisor locates the exception configuration for the specified split/skill and the displays the data in the appropriate fields. If exception configuration data cannot be found, the status bar displays **0 matches found**.

To have all splits/skills returned in this step, leave the **Split(s)/Skill(s):** field blank before performing the **Find one** action. *Supervisor* will return all split(s)/skill(s) for which you have the *read* permission. You can then use the **Next** and **Previous** menu actions to cycle through the splits/skills.

7. Make the necessary changes in the following fields for each **Exception Type** that requires modification:

- **Active** - Place a check mark in this check box to enable the exception allowing it to run and adhere to the parameters given in the other fields. Leaving this check box blank will disable the exception and *CMS* will not attempt to track the activity for this exception.
- **Time Limit** - Set the time limit in seconds (0–28800) for exception types that use a time limit. This value is used as the minimum or maximum amount of time for an activity. If this limit is surpassed, *CMS* will count this activity and compare it against the **Threshold** field. This field requires an entry and cannot be left blank.
- **Threshold** - Enter the number of acceptable occurrences of this activity (0–999). Any occurrences beyond this number will generate an exception. If *CMS* should create an exception on the very first instance, enter **0** in this field. This field requires an entry and cannot be left blank.

8. When all necessary time limits and thresholds have been entered, select **Actions > Modify** from the menu bar.

Supervisor saves the data for this split/skill and the status bar displays a **Successful** message.

Deleting split/skill exceptions

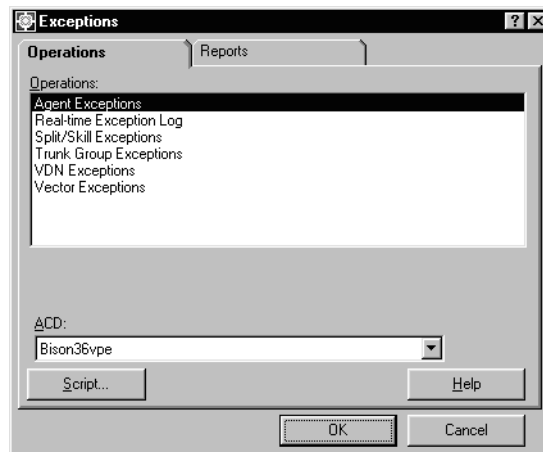
This section provides the procedure for deleting existing split/skill exception configurations.

Steps

To delete a split/skill exception configuration:

1. From the Controller window, select **Commands > Exceptions**.

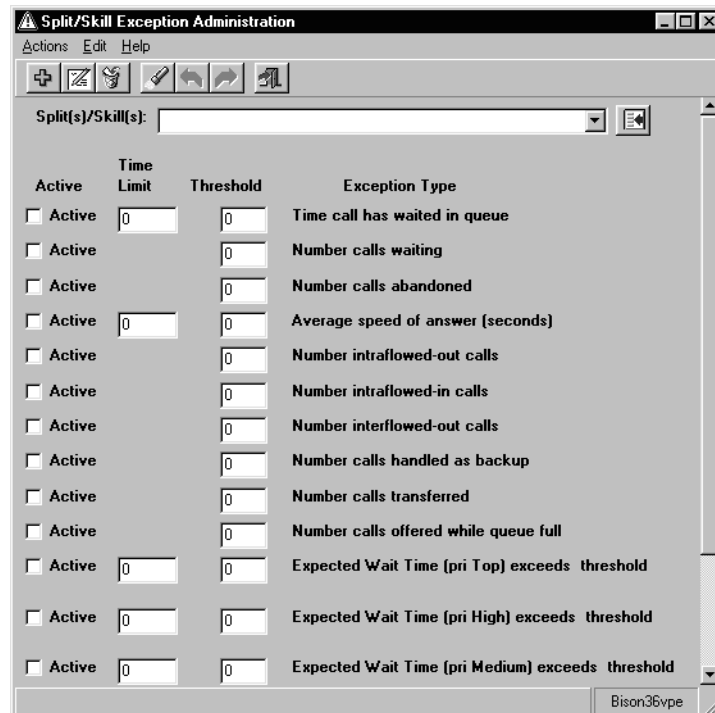
Supervisor displays the **Exceptions** window.



2. In the **ACD:** field, select the ACD that contains the split/skill and its exception configuration.
3. In the **Operations:** list, highlight **Split/Skill Exceptions**.

4. Select **OK**.

Supervisor displays the **Split/Skill Exception Administration** window.



5. In the **Split(s)/Skill(s):** field, enter the name or number of the split/skill for which the exception configuration is to be deleted.
6. From the menu bar, select **Actions > Find one**.

Supervisor locates the exception configuration for the specified split/skill and the displays the data in the appropriate fields. If exception configuration data cannot be found, the status bar displays **0 matches found**.

To have all splits/skills returned in this step, leave the **Split(s)/Skill(s):** field blank before performing the **Find one** action. *Supervisor* will return all split(s)/skill(s) for which you have the *read* permission. You can then use the **Next** and **Previous** menu actions to cycle through the splits/skills.

7. From the menu bar, select **Actions > Delete**.

Supervisor deletes the exception configuration for this split/skill from the CMS database and a displays a **Successful** message in the status bar.

Split/skill exception definitions

The following table provides the definitions for the different split/skill exceptions:

<i>In this field...</i>	<i>Enter this value...</i>
Time call has waited in queue	The total acceptable amount of time any call in queue remains unanswered before an occurrence is counted against the threshold limit.
Number calls waiting	The maximum number of calls waiting in queue at any one time.
Number calls abandoned	The total number of acceptable abandoned calls. This exception can only be triggered once per interval.
Average speed of answer (seconds)	The maximum acceptable amount of time in seconds that a call waits in that split/skill queue before an agent answers. This exception can only be triggered once per interval.
Number intraflowed-out calls	The maximum acceptable number of calls that intraflow out from or in to a split or skill. This exception can only be triggered once per interval.
Number intraflowed-in calls	The acceptable number of calls that can intraflow in to the split or skill before an occurrence is counted against the threshold limit. This exception can only be triggered once per interval.
Number interflowed-out calls	The acceptable number of calls that can interflow out of the split or skill. This exception can only be triggered once per interval.
Number calls handled as backup	The acceptable number of calls that this split or skill can handle as a backup for another split or skill. This exception can only be triggered once per interval.
Number calls transferred	The acceptable number of calls that can be transferred from this split or skill. This exception can only be triggered once per interval.
Number calls offered while queue full	The acceptable number of calls that can be offered to the split or skill while the queue is full. This exception can only be triggered once per interval.

Expected Wait Time (pri Top) exceeds threshold	The maximum acceptable time in seconds that a call is expected to wait at Top priority before connecting to an agent. This exception can only be triggered once per interval.
Expected Wait Time (pri High) exceeds threshold	The maximum acceptable time in seconds that a call is expected to wait at High priority before connecting to an agent. This exception can only be triggered once per interval.
Expected Wait Time (pri Medium) exceeds threshold	The maximum acceptable time in seconds that a call is expected to wait at Med priority before connecting to an agent. This exception can only be triggered once per interval.
Expected Wait Time (pri Low)	The maximum acceptable time in seconds that a call is expected to wait at Low priority before connecting to an agent. This exception can only be triggered once per interval.
Rolling Average Speed of Answer	The maximum acceptable amount of time in seconds that is calculated for the rolling average speed of answer (ASA) for a split/skill. This exception can only be triggered once per interval. The ASA for the measured split/skill is sent to CMS by way of the ASA message. An occurrence is counted (in seconds) when CMS receives an ASA that exceeds the time limit that is specified for a split/skill. An exception is triggered when the threshold is exceeded.

Split/skill exceptions report

The split/skill exceptions report is used to view exceptions that have occurred for the selected splits/skills. For each split/skill exception, the report shows the time and type of exception.

Before you begin

To be able to view data for a split/skill exception report, the following events must have occurred:

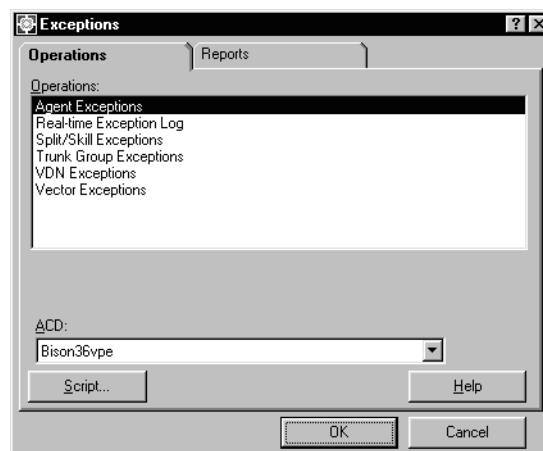
- One or more split/skill exceptions must have been activated.
- The exceptions must have occurred at some point. Otherwise, the report is blank.
- Active exceptions must be specified in the input window so that they are included in the report.
- The user ID used to run the report must have the *read* permission for the Exceptions subsystem and the affected splits/skills as well as the *exceptions* permission for all affected splits/skills.

Steps

To run the split/skill exceptions report:

1. From the Controller window, select **Commands > Exceptions**.

Supervisor displays the **Exceptions** window.



2. Select the **Reports** tab.
3. In the **ACD:** field, select the ACD that contains the split/skill on which to run the report.

4. In the **Reports:** list, highlight **Split/Skill Exceptions**.

5. Select **OK**.

Supervisor displays the **Split/Skill Exceptions** window.

6. In the **Date:** field, specify the date for which you want to view the report. Entry of the date can be done through the following methods:

- Enter MM/DD/YY format; for example, **10/06/01**.
- Enter the relative day; for example, **0** for today, **-1** for yesterday, or **-7** for one week ago.
- Enter a relative range; for example, **-9-0** causes the report to display data for the past ten days including today.
- Select a date from the drop-down list.
- Select a date by using the Browse button.

This is a required field.

7. In the **Splits/Skills:** field, specify the name or number of one or more splits/skills to run the report against. Entry of the split/skill can be done through the following methods:

- Enter the name or number of the split/skill.
- Select the split/skill from the drop-down list.
- Select the split/skill by using the Browse button.

Multiple splits/skills can be entered in this field, but must be separated by a semicolon (;). This is a required field.

Administering exceptions

8. In the **Order by:** field, select one of the following sorting options:

- **Split/Skill** - The report results are sorted by split/skill name or number.
- **Time** — The report results are sorted by the time the exceptions occurred.

9. In the **Exceptions:** field, select one or more exceptions to include in the report.

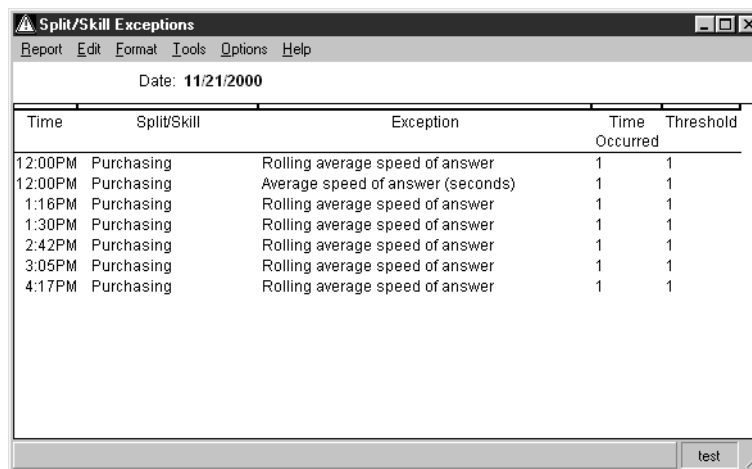
Only those exceptions that have been activated in the past should be selected.
Selecting exceptions that have not been activated will not return any data in the report.

10. In **Destination** group, select one of the following output options:

- **View Report on Screen** - The report is displayed on the screen.
- **Print Report on:** - The report is sent to the specified printer. Any printer available to the PC can be used and selected through the button at the right of the field.

11. Select **OK**.

Supervisor sends the report to the specified output option.



Time	Split/Skill	Exception	Time Occurred	Threshold
12:00PM	Purchasing	Rolling average speed of answer	1	1
12:00PM	Purchasing	Average speed of answer (seconds)	1	1
1:16PM	Purchasing	Rolling average speed of answer	1	1
1:30PM	Purchasing	Rolling average speed of answer	1	1
2:42PM	Purchasing	Rolling average speed of answer	1	1
3:05PM	Purchasing	Rolling average speed of answer	1	1
4:17PM	Purchasing	Rolling average speed of answer	1	1

Trunk group exceptions

Trunk group exceptions are used to identify performance and capacity issues for the trunk groups in the contact center.

Contents

This section contains the following topics:

- [Adding trunk group exceptions](#) on page 372
- [Modifying trunk group exceptions](#) on page 374
- [Deleting trunk group exceptions](#) on page 377
- [Trunk group exception definitions](#) on page 379
- [Trunk group exceptions report](#) on page 380

Before you begin

The following items should be read and understood before working with trunk group exceptions:

- An Audio Difficulty exception is associated with each trunk group. This exception is always provided for all MultiVantage systems that support event counts and it cannot be disabled. For this reason, this exception is not available on the **Trunk Group Exception Administration** window.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view trunk group exceptions, the user ID used to log in to this *Supervisor* session requires *read* permission for the Exceptions subsystem and all affected trunk groups as well as the *exceptions* permission for all affected trunk groups.
- To add, delete, or change trunk group exceptions, the user ID used to log in to this *Supervisor* session requires *write* permission for the Exceptions subsystem and all affected trunk groups as well as the *exceptions* permission for all affected trunk groups.

Adding trunk group exceptions

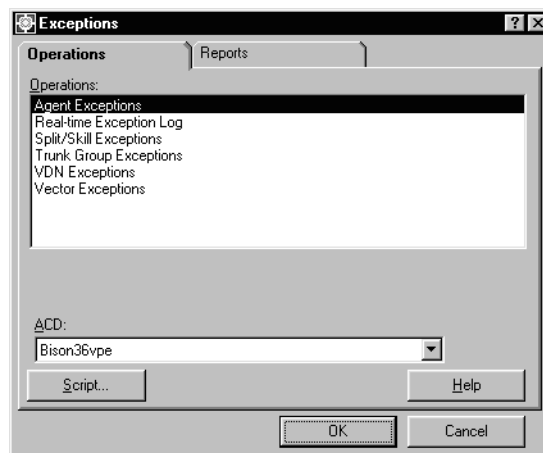
This section provides the procedure for adding an exception configuration for a trunk group.

Steps

To add exceptions for a trunk group:

1. From the Controller Window, select **Commands > Exceptions**.

Supervisor displays the **Exceptions** window.



2. In the **ACD:** field, select the ACD for the trunk group that will receive the new exceptions configuration.
3. In the **Operations:** list, highlight **Trunk Group Exceptions**.

4. Select **OK**.

Supervisor displays the **Trunk Group Exception Administration** window.

Active	Time Limit	Threshold	Exception Type
☐ Active	0	0	Time trunk in use (min)
☐ Active	0	0	Time trunk in use (max)
☐ Active	0	0	Time any trunk maintenance busy
☐ Active	0	0	Length of time all trunks busy
☐ Active		0	Number trunk failures in group
☐ Active		0	Number of trunks in use
☐ Active		0	Number of trunks maintenance busy
☐ Active		0	Number of failures on a single trunk

5. In the **Trunk groups:** field, enter the name or number of the trunk group for which an exceptions configuration is to be created.
6. For each **Exception Type** that should be monitored, the following fields must be configured:
- **Active** - Place a check mark in this check box to enable the exception allowing it to run and adhere to the parameters given in the other fields. Leaving this check box blank will disable the exception and *CMS* will not attempt to track the activity for this exception.
 - **Time Limit** - Set the time limit in seconds (0–28800) for exception types that use a time limit. This value is used as the minimum or maximum amount of time for an activity. If this limit is surpassed, *CMS* will count this activity and compare it against the **Threshold** field. This field is requires an entry and cannot be left blank.
 - **Threshold** - Enter the number of acceptable occurrences of this activity (0–999). Any occurrences beyond this number will generate an exception. If *CMS* should create an exception on the very first instance, enter **0** in this field. This field requires an entry and cannot be left blank.
7. When all necessary time limits and thresholds have been entered, select **Actions > Add** from the menu bar.

Supervisor saves the data for this trunk group and the status bar displays a **Successful** message.

Modifying trunk group exceptions

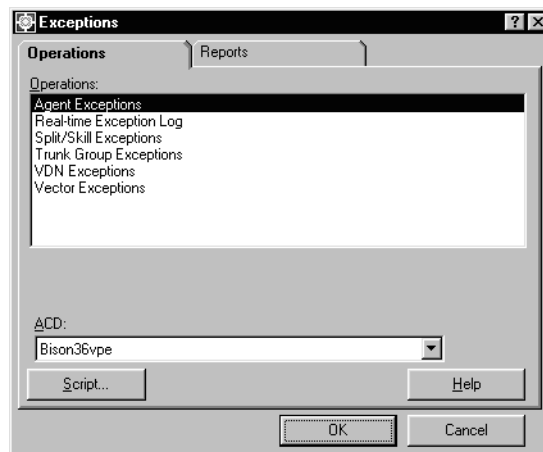
This section provides the procedure for modifying an existing exception configuration for a trunk group.

Steps

To modify trunk group exceptions:

1. From the Controller window, select **Commands > Exceptions**.

Supervisor displays the **Exceptions** window.



2. In the **ACD:** field, select the ACD that contains the trunk group and its exception configuration.
3. In the **Operations:** list, highlight **Trunk Group Exceptions**.

4. Select **OK**.

Supervisor displays the **Trunk Group Exception Administration** window.

Active	Time Limit	Threshold	Exception Type
☐ Active	0	0	Time trunk in use (min)
☐ Active	0	0	Time trunk in use (max)
☐ Active	0	0	Time any trunk maintenance busy
☐ Active	0	0	Length of time all trunks busy
☐ Active		0	Number trunk failures in group
☐ Active		0	Number of trunks in use
☐ Active		0	Number of trunks maintenance busy
☐ Active		0	Number of failures on a single trunk

5. In the **Trunk groups:** field, enter the name or number of the trunk group for which exception configuration is to be modified.6. From the menu bar, select **Actions > Find one**.

Supervisor locates the exception configuration data for the specified trunk group and displays it in the appropriate fields. If data cannot be found for this trunk group, the status bar displays **0 matches found**.

To return all trunk groups, leave the **Trunk groups:** field blank before performing the **Find one** action. *Supervisor* will return all trunk groups for which you have the *read* permission. You can then use the **Next** and **Previous** menu actions to cycle through the trunk groups.

7. For each **Exception Type** that should be monitored, the following fields must be configured:

- **Active** - Place a check mark in this check box to enable the exception allowing it to run and adhere to the parameters given in the other fields. Leaving this check box blank will disable the exception and *CMS* will not attempt to track the activity for this exception.
- **Time Limit** - Set the time limit in seconds (0–28800) for exception types that use a time limit. This value is used as the minimum or maximum amount of time for an activity. If this limit is surpassed, *CMS* will count this activity and compare it against the **Threshold** field. This field requires an entry and cannot be left blank.
- **Threshold** - Enter the number of acceptable occurrences of this activity (0–999). Any occurrences beyond this number will generate an exception. If *CMS* should create an exception on the very first instance, enter **0** in this field. This field requires an entry and cannot be left blank.

Administering exceptions

8. When all necessary time limits and thresholds have been entered, select **Actions > Modify** from the menu bar.

Supervisor updates the data for this trunk group and the status bar displays a **Successful** message.

Deleting trunk group exceptions

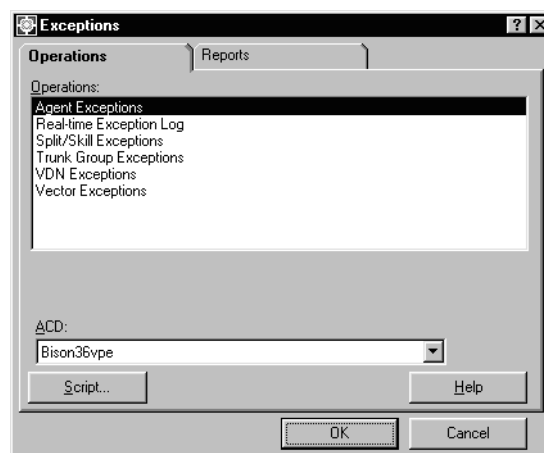
This section provides the procedure for deleting existing trunk group exception configurations.

Steps

To delete a trunk group exception configuration:

1. From the Controller window, select **Commands > Exceptions**.

Supervisor displays the **Exceptions** window.



2. In the **ACD:** field, select the ACD that contains the trunk group and its exception configuration.
3. In the **Operations:** list, highlight **Trunk Group Exceptions**.

Administering exceptions

4. Select **OK**.

Supervisor displays the **Trunk Group Exception Administration** window.

Active	Time Limit	Threshold	Exception Type
☐ Active	0	0	Time trunk in use (min)
☐ Active	0	0	Time trunk in use (max)
☐ Active	0	0	Time any trunk maintenance busy
☐ Active	0	0	Length of time all trunks busy
☐ Active		0	Number trunk failures in group
☐ Active		0	Number of trunks in use
☐ Active		0	Number of trunks maintenance busy
☐ Active		0	Number of failures on a single trunk

5. In the **Trunk groups:** field, enter the name or number of the trunk group for which the exception configuration is to be deleted.
6. From the menu bar, select **Actions > Find one**.

The exception configuration is found for the specified trunk group and the data displays in the appropriate fields. If exception configuration data cannot be found, the status bar will display **0 matches found**.

To return all trunk groups, leave the **Trunk groups:** field blank before performing the **Find one** action. *Supervisor* will return all trunk groups for which you have the *read* permission. You can then use the **Next** and **Previous** menu actions to cycle through the trunk groups.

7. From the menu bar, select **Actions > Delete**.

The exception configuration for this trunk group is deleted from the *CMS* database and a **Successful** message displays in the status bar.

Trunk group exception definitions

The following table provides the definitions for the different trunk group exceptions:

In this field...	Enter this value...
Time trunk in use (minimum)	The minimum acceptable time in seconds that a trunk in the trunk group can be in use. This exception can only be triggered once per interval for the same trunk.
Time trunk in use (maximum)	The maximum acceptable time in seconds that a trunk in the trunk group can be in use. This exception can only be triggered once per interval for the same trunk.
Time any trunk maintenance busy	The maximum acceptable time in seconds that a trunk in the trunk group can be in the maintenance busy state.
Length of time all trunks busy	The maximum acceptable time that all trunks in the trunk group can be busy at once. This exception can only be triggered once per interval.
Number of trunks in use	The maximum acceptable number of trunks that can be in use at the same time in the trunk group. An exception is reached each time the allowed number of trunks in use exceeds the threshold within the interval.
Number of trunks maintenance busy	The maximum acceptable number of trunks that can be in the maintenance busy state in the trunk group. An exception is reached each time the allowed number of trunk that are in the maintenance busy state exceeds the threshold within the interval.

Trunk group exceptions report

Use the trunk group exceptions report to view exceptions that have occurred for the selected trunk groups. For each trunk group exception, the report shows the time and type of exception.

Before you begin

To be able to view data for a trunk group exception report, the following events must have occurred:

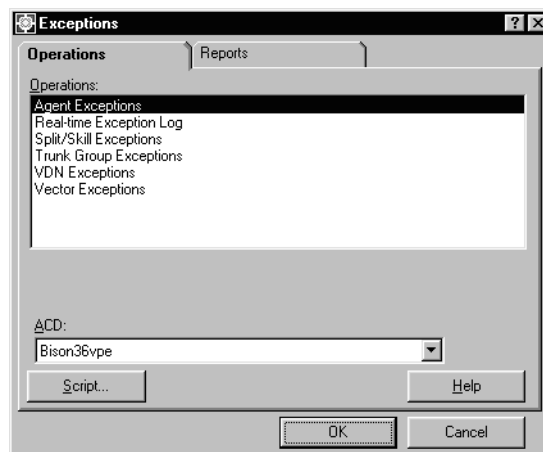
- One or more trunk group exceptions must have been activated.
- The exceptions must have occurred at some point. Otherwise, the report is blank.
- Active exceptions must be specified in the input window so that they are included in the report.

Steps

To run the trunk group exceptions report:

1. From the Controller window, select **Commands > Exceptions**.

Supervisor displays the **Exceptions** window.



2. Select the **Reports** tab.
3. In the **ACD:** field, select the ACD that contains the trunk group on which to run the report.
4. In the **Reports:** list, highlight **Trunk Group Exceptions by Location**.
5. Select **OK**.

Supervisor displays the **Trunk Group Exceptions** window.

6. In the **Date:** field, specify the date to view for the report. Entry of the date can be done through the following methods:

- Enter MM/DD/YY format; for example, **10/06/01**.
- Enter the relative day; for example, **0** for today, **-1** for yesterday, or **-7** for one week ago.
- Enter a relative range; for example, **-9-0** causes the report to display data for the past ten days including today.
- Select a date from the drop-down list.
- Select a date by using the Browse button.

This is a required field.

7. In the **Trunk Groups:** field, specify the name or number of one or more trunk groups to run the report against. Entry of the trunk group can be done through the following methods:

- Enter the name or number of the trunk group.
- Select the trunk group from the drop-down list.
- Select the trunk group by using the Browse button.

Multiple trunk groups can be entered in this field, but must be separated by a semicolon (;).

This is a required field.

Administering exceptions

8. In the **Order by:** field, select one of the following sorting options:

- **Trunk Group** - The report results are sorted by trunk group number.
- **Trunk Location** - The report results are sorted by individual trunks.
- **Time** - The report results are sorted by the time the exceptions occurred.

9. In the **Exceptions:** field, select one or more exceptions to include in the report.

Select only those exceptions that are or have been activated during the date specified. If you select exceptions that have not been active during the date specified, the report does not display any data in the report.

Audio difficulty is a trunk group exception that can be requested on a report even though it cannot be administered in trunk group exception operations.

10. In **Destination** group, select one of the following output options:

- **View Report on Screen** - The report is displayed on the screen.
- **Print Report on:** - The report is sent to the specified printer. Any printer available to the PC can be used and selected through the button at the right of the field.

11. Select **OK**.

Supervisor sends the report to the specified output option.

The screenshot shows a window titled "Trunk Group Exceptions" with a menu bar (Report, Edit, Format, Tools, Options, Help) and a date field set to "Date: 2/12/98". Below the date is a table with the following headers: Time, Trunk Group Name, Exception, Time Threshold Limit, Trunk, Agent Name, and Login ID. The table body is empty. At the bottom right of the window, there is a status bar that reads "Bison36vpe".

Time	Trunk Group Name	Exception	Time Threshold Limit	Trunk	Agent Name	Login ID

VDN exceptions

Use Vector Directory Number (VDN) exceptions to assist in the identification of problems in the following areas:

- The amount of time calls that remain in the vector or at an agent
- The number of calls that reach specific states, such as disconnected, busy, and abandoned
- The number of calls that are routed in or out of the VDN and if they are successful

Contents

This section contains the following topics:

- [Adding VDN exceptions](#) on page 385
- [Modifying VDN exceptions](#) on page 387
- [Deleting VDN exceptions](#) on page 390
- [VDN exception definitions](#) on page 392
- [VDN exceptions report](#) on page 394

Before you begin

The following items should be read and understood before working with VDN exceptions:

- To administer VDN exceptions, your company must have purchased and installed the Call Vectoring feature.
- Because of the routing that is permitted by the **go to vector** command, the **Time in vector** exception may include the time that a call spends in more than one vector.
- *CMS* begins to monitor for VDN exceptions when a call connects to the VDN and stops when the call is disconnected, sent to another VDN, sent to an external destination, or transferred. The call remains connected to the VDN if one of the following circumstances is encountered:
 - The call routes to another vector through a **go to vector** step.
 - The call is sent through a **route to** or **adjunct routing** step to a non-VDN extension that is internal to the local MultiVantage system.

Administering exceptions

- If a large number of VDNs exist in the Dictionary (over 2000), there can be lengthy waiting periods when you browse for VDNs through *Supervisor*.
- Some exception types require that an appropriate step exists in the vector to which the VDN is assigned. For example, to get exceptions on unsuccessful **Look Ahead Interflow** attempts, the vector for the VDN must have at least one **route to** step that routes calls to a vector on a remote switch.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view VDN exceptions, the user ID used to log in to this *Supervisor* session requires *read* permission for the Exceptions subsystem and all affected VDNs as well as the *exceptions* permission for all affected VDNs.
- To add, delete, or change VDN exceptions, the user ID used to log in to this *Supervisor* session requires *write* permission for the Exceptions subsystem and all affected VDNs as well as the *exceptions* permissions for all affected VDNs.

Adding VDN exceptions

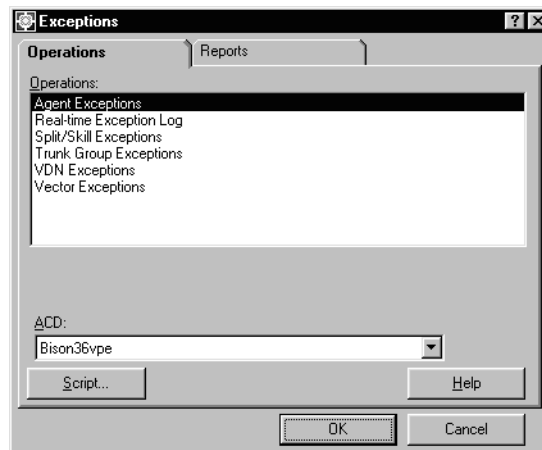
This section provides the procedure for adding an exceptions configuration to a VDN.

Steps

To add an exceptions configuration to a VDN:

1. From the Controller window, select **Commands > Exceptions**.

Supervisor displays the **Exceptions** window.



2. In the **ACD:** field, select the ACD that contains the VDN that will receive the new exceptions configuration.
3. In the **Operations:** list, highlight **VDN Exceptions**.

Administering exceptions

4. Select **OK**.

Supervisor displays the **VDN Exception Administration** window.

Active	Time Limit	Threshold	Exception Type
☐ Active	0	0	Time in vector (max)
☐ Active	0	0	Time at agent (min)
☐ Active	0	0	Time at agent (max)
☐ Active		0	Number calls abandoned while in vector
☐ Active		0	Number calls forced busy
☐ Active		0	Number calls disconnected
☐ Active		0	Number calls in an ACD split queue
☐ Active		0	Number calls that flowed into VDN
☐ Active		0	Number calls that flowed out of VDN
☐ Active		0	Number calls interflowed out of VDN
☐ Active		0	Number calls handled by backup split
☐ Active		0	Number unsuccessful lookahead interflow attempts
☐ Active		0	Number unsuccessful adjunct routing attempts
☐ Active	0	0	Rolling Average Speed of Answer (seconds)

5. In the **VDNs:** field, enter the name or number of the VDN for which the exceptions configuration is to be created.

6. For each **Exception Type** that should be monitored, the following fields must be configured:

- **Active** - Place a check mark in this check box to enable the exception allowing it to run and adhere to the parameters given in the other fields. Leaving this check box blank will disable the exception and CMS will not attempt to track the activity for this exception.
- **Time Limit** - Set the time limit in seconds (0–28800) for exception types that use a time limit. This value is used as the minimum or maximum amount of time for an activity. If this limit is surpassed, CMS will count this activity and compare it against the **Threshold** field. This field requires an entry and cannot be left blank.
- **Threshold** - Enter the number of acceptable occurrences of this activity (0–999). Any occurrences beyond this number will generate an exception. If CMS should create an exception on the very first instance, enter **0** in this field. This field requires an entry and cannot be left blank.

7. When all necessary time limits and thresholds have been entered, select **Actions > Add** from the menu bar.

Supervisor saves the data for this VDN exception configuration and the status bar displays a **Successful** message.

Modifying VDN exceptions

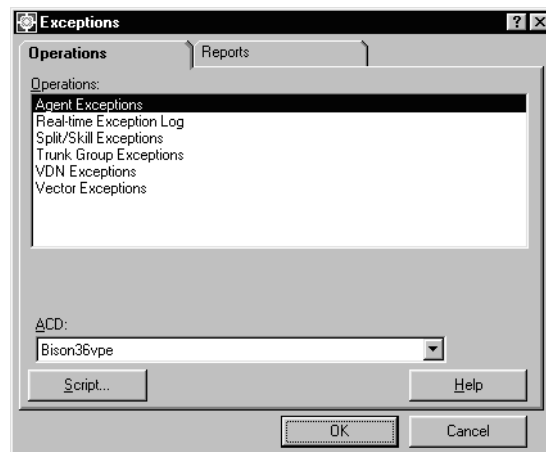
This section provides the procedure for modifying an existing exception configuration for a VDN.

Steps

To modify VDN exceptions:

1. From the Controller window, select **Commands > Exceptions**.

Supervisor displays the **Exceptions** window.



2. In the **ACD:** field, select the ACD that contains the VDN and its exception configuration.
3. In the **Operations:** list, highlight **VDN Exceptions**.

Administering exceptions

4. Select **OK**.

Supervisor displays the **VDN Exception Administration** window.

Active	Time Limit	Threshold	Exception Type
☐ Active	0	0	Time in vector (max)
☐ Active	0	0	Time at agent (min)
☐ Active	0	0	Time at agent (max)
☐ Active		0	Number calls abandoned while in vector
☐ Active		0	Number calls forced busy
☐ Active		0	Number calls disconnected
☐ Active		0	Number calls in an ACD split queue
☐ Active		0	Number calls that flowed into VDN
☐ Active		0	Number calls that flowed out of VDN
☐ Active		0	Number calls interflowed out of VDN
☐ Active		0	Number calls handled by backup split
☐ Active		0	Number unsuccessful lookahead interflow attempts
☐ Active		0	Number unsuccessful adjunct routing attempts
☐ Active	0	0	Rolling Average Speed of Answer (seconds)

5. In the **VDNs:** field, enter the name or number of the VDN for which exception configuration is to be modified.

6. From the menu bar, select **Actions > Find one**.

Supervisor locates the exception configuration data for the specified VDN and displays it in the appropriate fields. If exception configuration data cannot be found for this VDN, the status bar displays **0 matches found**.

To have all VDNs returned in this step, leave the **VDNs:** field blank before performing the **Find one** action. *Supervisor* will return all VDNs for which you have the *read* permission. You can then use the **Next** and **Previous** menu actions to cycle through the VDNs.

7. For each **Exception Type** that should be monitored, the following fields must be configured:
 - **Active** - Place a check mark in this check box to enable the exception allowing it to run and adhere to the parameters given in the other fields. Leaving this check box blank will disable the exception and CMS will not attempt to track the activity for this exception.
 - **Time Limit** - Set the time limit in seconds (0–28800) for exception types that use a time limit. This value is used as the minimum or maximum amount of time for an activity. If this limit is surpassed, CMS will count this activity and compare it against the **Threshold** field. This field requires an entry and cannot be left blank.
 - **Threshold** - Enter the number of acceptable occurrences of this activity (0–999). Any occurrences beyond this number will generate an exception. If CMS should create an exception on the very first instance, enter 0 in this field. This field requires an entry and cannot be left blank.
8. When all necessary time limits and thresholds have been entered, select **Actions > Modify** from the menu bar.

Supervisor updates the exception configuration data for this VDN and the status bar displays a **Successful** message.

Deleting VDN exceptions

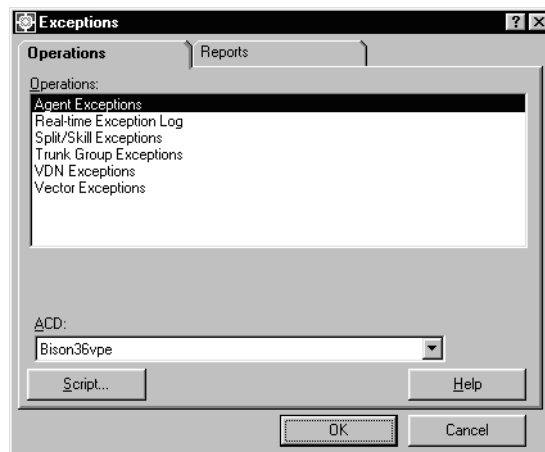
This section provides the procedure for deleting existing VDN exception configurations.

Steps

To delete a VDN exception configuration:

1. From the Controller window, select **Commands > Exceptions**.

Supervisor displays the **Exceptions** window.



2. In the **ACD:** field, select the ACD that contains the VDN and its exception configuration.
3. In the **Operations:** list, highlight **VDN Exceptions**.

4. Select **OK**.

Supervisor displays the **VDN Exception Administration** window.

Active	Time Limit	Threshold	Exception Type
☐ Active	0	0	Time in vector (max)
☐ Active	0	0	Time at agent (min)
☐ Active	0	0	Time at agent (max)
☐ Active		0	Number calls abandoned while in vector
☐ Active		0	Number calls forced busy
☐ Active		0	Number calls disconnected
☐ Active		0	Number calls in an ACD split queue
☐ Active		0	Number calls that flowed into VDN
☐ Active		0	Number calls that flowed out of VDN
☐ Active		0	Number calls interflowed out of VDN
☐ Active		0	Number calls handled by backup split
☐ Active		0	Number unsuccessful lookahead interflow attempts
☐ Active		0	Number unsuccessful adjunct routing attempts
☐ Active	0	0	Rolling Average Speed of Answer (seconds)

5. In the **VDNs:** field, enter the name or number of the VDN for which the exception configuration is to be deleted.

6. From the menu bar, select **Actions > Find one**.

Supervisor locates the exception configuration for the specified VDN and the data displays in the appropriate fields. If exception configuration data cannot be found, the status bar displays **0 matches found**.

To have all VDNs returned through this step, leave the **VDNs:** field blank. *Supervisor* displays the total number of matches in the status bar. The VDNs can then be navigated by using the **Next** and **Previous** actions.

7. From the menu bar, select **Actions > Delete**.

Supervisor deletes the exception configuration for this VDN from the *CMS* database and displays a **Successful** message in the status bar.

VDN exception definitions

The following table provides the definitions for the different VDN exceptions:

In this field...	Enter this value...
Time in Vector	The maximum acceptable time in seconds that a call should spend in vector processing. This exception can only be triggered once per interval.
Time at agent (minimum)	The minimum acceptable time in seconds that a call to this VDN is connected to an agent. This exception can only be triggered once per interval.
Time at agent (maximum)	The maximum acceptable time in seconds that a call to this VDN is connected to an agent. This exception can only be triggered once per interval.
Number of calls abandoned while in vector	The maximum acceptable number of calls to this VDN that are abandoned before being answered during an interval. This exception can only be triggered once per interval.
Number of calls forced busy	The maximum acceptable number of calls to this VDN that receive a busy signal from the switch during an interval. This exception can only be triggered once per interval.
Number of calls disconnected	The maximum acceptable number of calls that are disconnected during vector processing during an interval. Disconnects can be caused by the disconnect vector command, by the vector disconnect timer, or because a call reached the end of vector processing without being queued. Calls that are disconnected after receiving a busy signal from the busy command are not included. This exception can only be triggered once per interval.
Number of calls in an ACD split/skill queue	The maximum acceptable number of call to this VDN that are in a split/skill queue.
Number of calls that flowed into VDN	The maximum number of calls during an interval that enter this VDN by a route-to or adjunct routing link vector step, or a transfer from a local extension. This exception can only be triggered once per interval.
Number of calls that flowed out of VDN	The maximum acceptable number of calls that are routed from this VDN during an interval to another VDN or external destination. This exception can only be triggered once per interval.

In this field...	Enter this value...
Number of calls that interflowed out of VDN	The maximum acceptable number of calls that are routed from this VDN to an external destination during an interval. This exception can only be triggered once per interval.
Number of calls handled by backup split or skill	The maximum acceptable number of calls to this VDN that are connected to a backup split/skill during an interval. A check backup split , check backup skill , messaging split , or messaging skill vector command causes a call to be handled by a backup split/skill. This exception cannot trigger more than once per interval.
Number of unsuccessful look ahead interflow attempts	The maximum acceptable number of calls to this VDN that fail to interflow to another MultiVantage system during an interval. The route-to vector command causes a call to interflow. This exception can only be triggered once per interval.
Number of unsuccessful adjunct routing attempts	The maximum acceptable number of failures of a call to this VDN to connect to an adjunct host computer during an interval. The failure of an adjunct route link vector command causes an unsuccessful adjunct routing attempt. The failure can occur because the connection to the adjunct is out of service or busy, or because the adjunct software rejects control. This exception can only be triggered once per interval.
Rolling Average Speed of Answer	The acceptable amount of time, in seconds, that is calculated for the rolling average speed of answer for a VDN. This exception can only be triggered once per interval.

VDN exceptions report

Use the VDN exceptions report to view exceptions that have occurred for the selected VDN. For each VDN exception, the report shows the time and type of exception.

Before you begin

To be able to view data for a VDN exception report, the following events must have occurred:

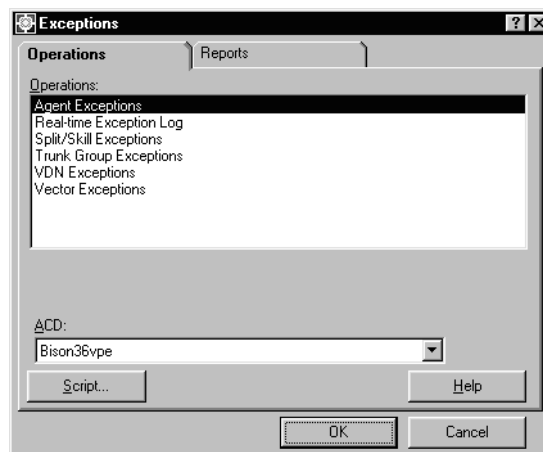
- One or more VDN exceptions must have been activated.
- The exceptions must have occurred at some point. Otherwise, the report is blank.
- Active exceptions must be specified in the input window so that they are included in the report.

Steps

To run the VDN exceptions report:

1. From the Controller window, select **Commands > Exceptions**.

Supervisor displays the **Exceptions** window.



2. Select the **Reports** tab.
3. In the **ACD:** field, select the ACD that contains the VDN on which to run the report.
4. In the **Reports:** list, highlight **VDN Exceptions by Location**.

5. Select **OK**.

Supervisor displays the **VDN Exceptions** window.

6. In the **Date:** field, specify the date to view for the report. Entry of the date can be done through the following methods:

- Enter MM/DD/YY format; for example, **10/06/01**.
- Enter the relative day; for example, **0** for today, **-1** for yesterday, or **-7** for one week ago.
- Enter a relative range; for example, **-9-0** causes the report to display data for the past ten days including today.
- Select a date from the drop-down list.
- Select a date by using the Browse button.

This is a required field.

7. In the **VDNs:** field, specify the name or number of one or more VDNs to run the report against. Entry of the VDN can be done through the following methods:

- Enter the name or number of the VDN.
- Select the VDN from the drop-down list.
- Select the VDN by using the Browse button.

Multiple VDNs can be entered in this field, but must be separated by a semicolon (;). This is a required field.

Administering exceptions

8. In the **Order by:** field, select one of the following sorting options:

- **Time** - The report results are sorted by the time the exceptions occurred.
- **VDN** - The report results are sorted by VDN name or number.
- **Vector** - The report results are sorted by vector.

9. In the **Exceptions:** field, select one or more exceptions to include in the report.

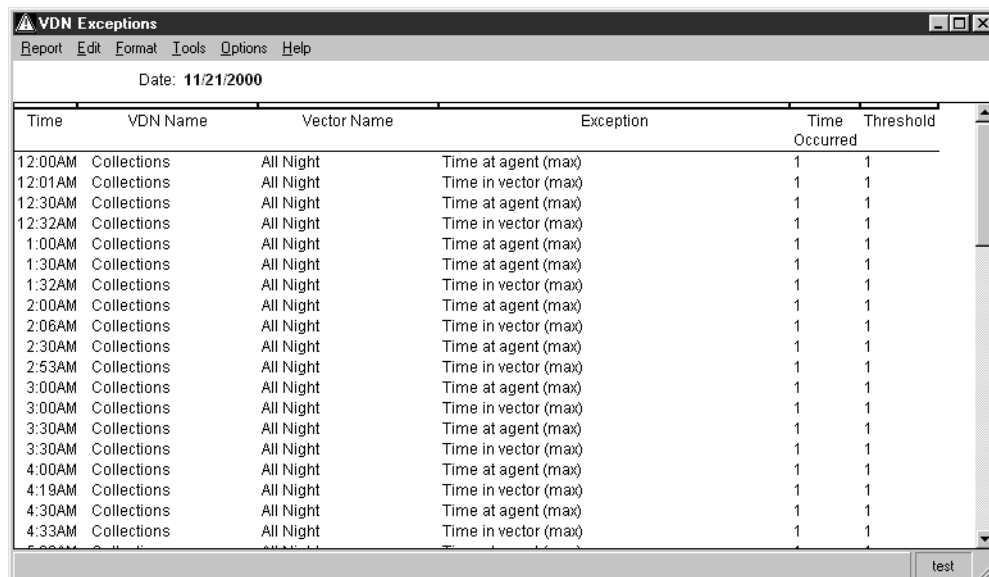
Select only those exceptions that have been activated at some point in the past.
Selecting exceptions that have not been activated will not return any data in the report.

10. In **Destination** group, select one of the following output options:

- **View Report on Screen** - The report is displayed on the screen.
- **Print Report on:** - The report is sent to the specified printer. Any printer available to the PC can be used and selected through the button at the right of the field.

11. Select **OK**.

Supervisor sends the report to the specified output option.



Time	VDN Name	Vector Name	Exception	Time Occurred	Threshold
12:00AM	Collections	All Night	Time at agent (max)	1	1
12:01AM	Collections	All Night	Time in vector (max)	1	1
12:30AM	Collections	All Night	Time at agent (max)	1	1
12:32AM	Collections	All Night	Time in vector (max)	1	1
1:00AM	Collections	All Night	Time at agent (max)	1	1
1:30AM	Collections	All Night	Time at agent (max)	1	1
1:32AM	Collections	All Night	Time in vector (max)	1	1
2:00AM	Collections	All Night	Time at agent (max)	1	1
2:06AM	Collections	All Night	Time in vector (max)	1	1
2:30AM	Collections	All Night	Time at agent (max)	1	1
2:53AM	Collections	All Night	Time in vector (max)	1	1
3:00AM	Collections	All Night	Time at agent (max)	1	1
3:00AM	Collections	All Night	Time in vector (max)	1	1
3:30AM	Collections	All Night	Time at agent (max)	1	1
3:30AM	Collections	All Night	Time in vector (max)	1	1
4:00AM	Collections	All Night	Time at agent (max)	1	1
4:19AM	Collections	All Night	Time in vector (max)	1	1
4:30AM	Collections	All Night	Time at agent (max)	1	1
4:33AM	Collections	All Night	Time in vector (max)	1	1

Vector exceptions

When vector exceptions are configured and activated, *CMS* monitors for these exceptions when a call enters the vector and continues monitoring until the call connects to an agent, is abandoned, or is routed to another destination.

Vector exceptions can assist in the identification of problems in the following areas:

- The amount of time that a call waits in a vector
- The number of calls that are abandoned, disconnected, or forced busy while in the vector
- Numerous unsuccessful routing attempts

Contents

This section contains the following topics:

- [Adding vector exceptions](#) on page 399
- [Modifying vector exceptions](#) on page 401
- [Deleting vector exceptions](#) on page 404
- [Vector exception definitions](#) on page 406
- [Vector exceptions report](#) on page 407

Before you begin

The following items should be read and understood before working with vector exceptions:

- Calls may generate some exceptions for a vector, even after the vector has given routing control to the adjunct by an **adjunct routing** vector command.
- Some exception types require that an appropriate step exists in the vector. For example, to get exceptions on unsuccessful Look Ahead Interflow attempts, the vector must have at least one **route to** step which routes calls to a remote MultiVantage system.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view vector exceptions, the user ID used to log in to this *Supervisor* session requires *read* permission for the Exceptions subsystem and all affected vectors as well as the *exceptions* permission for the affected vectors.
- To add, delete, or change vector exceptions, the user ID used to log in to this *Supervisor* session requires *write* permission for the Exceptions subsystem and all affected vectors as well as the *exceptions* permission for the affected vectors.

Adding vector exceptions

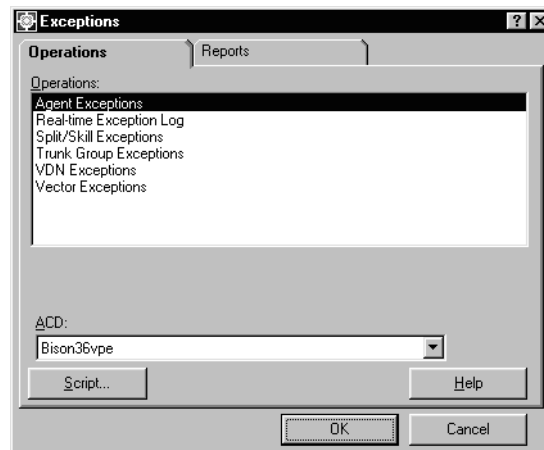
This section provides the procedure for adding an exceptions configuration for a vector.

Steps

To add a vector exception configuration:

1. From the Controller window, select **Commands > Exceptions**.

Supervisor displays the **Exceptions** window.



2. In the **ACD:** field, select the ACD that contains the vector that will receive the new exceptions configuration.
3. In the **Operations:** list, highlight **Vector Exceptions**.

Administering exceptions

4. Select **OK**.

Supervisor displays the **Vector Exception Administration** window.

Active	Time Limit	Threshold	Exception Type
☐ Active	0	0	Time in vector (max)
☐ Active		0	Number calls abandoned while in vector
☐ Active		0	Number calls forced busy
☐ Active		0	Number calls disconnected
☐ Active		0	Number calls in an ACD split queue
☐ Active		0	Number unsuccessful lookahead interflow attempts
☐ Active		0	Number unsuccessful adjunct routing attempts

5. In the **Vectors:** field, enter the name or number of the vector for which an exceptions configuration is to be created.

6. For each **Exception Type** that should be monitored, the following fields must be configured:

- **Active** - Place a check mark in this check box to enable the exception allowing it to run and adhere to the parameters given in the other fields. Leaving this check box blank will disable the exception and *CMS* will not attempt to track the activity for this exception.
- **Time Limit** - Set the time limit in seconds (0–28800) for exception types that use a time limit. This value is used as the minimum or maximum amount of time for an activity. If this limit is surpassed, *CMS* will count this activity and compare it against the **Threshold** field. This field is requires an entry and cannot be left blank.
- **Threshold** - Enter the number of acceptable occurrences of this activity (0–999). Any occurrences beyond this number will generate an exception. If *CMS* should create an exception on the very first instance, enter **0** in this field. This field requires an entry and cannot be left blank.

7. When all necessary time limits and thresholds have been entered, select **Actions > Add** from the menu bar.

Supervisor saves the data for this vector exception configuration and the displays a **Successful** message in the status bar.

Modifying vector exceptions

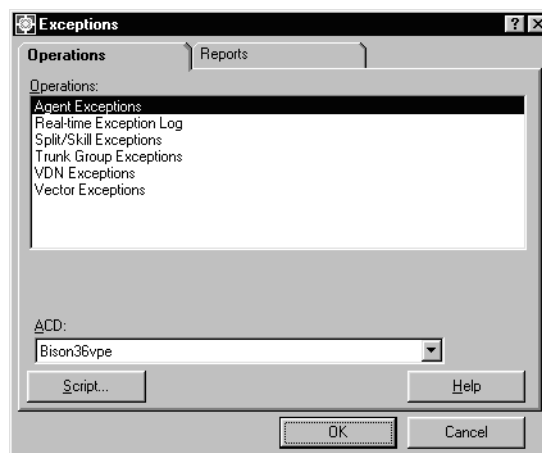
This section provides the procedure for modifying an existing exception configuration for a vector.

Steps

To modify vector exceptions:

1. From the Controller window, select **Commands > Exceptions**.

Supervisor displays the **Exceptions** window.



2. In the **ACD:** field, select the ACD that contains the vector and its exception configuration.
3. In the **Operations:** list, highlight **Vector Exceptions**.

4. Select **OK**.

Supervisor displays the **Vector Exception Administration** window.

Active	Time Limit	Threshold	Exception Type
☐ Active	0	0	Time in vector (max)
☐ Active		0	Number calls abandoned while in vector
☐ Active		0	Number calls forced busy
☐ Active		0	Number calls disconnected
☐ Active		0	Number calls in an ACD split queue
☐ Active		0	Number unsuccessful lookahead interflow attempts
☐ Active		0	Number unsuccessful adjunct routing attempts

5. In the **Vectors:** field, enter the name or number of the vector for which the exception configuration is to be modified.

6. From the menu bar, select **Actions > Find one**.

Supervisor locates the agent exception configuration for the specified split/skill and displays the data in the appropriate fields. If the exception configuration data cannot be found, the status bar displays **0 matches found**.

To have all vectors returned when performing this step, leave the **Vectors:** field blank before performing the **Find one** action. *Supervisor* will return all vectors for which you have the *read* permission. You can then use the **Next** and **Previous** menu actions to cycle through the vectors.

7. For each **Exception Type** that should be monitored, the following fields must be configured:

- **Active** - Place a check mark in this check box to enable the exception allowing it to run and adhere to the parameters given in the other fields. Leaving this check box blank will disable the exception and *CMS* will not attempt to track the activity for this exception.
- **Time Limit** - Set the time limit in seconds (0–28800) for exception types that use a time limit. This value is used as the minimum or maximum amount of time for an activity. If this limit is surpassed, *CMS* will count this activity and compare it against the **Threshold** field. This field requires an entry and cannot be left blank.
- **Threshold** - Enter the number of acceptable occurrences of this activity (0–999). Any occurrences beyond this number will generate an exception. If *CMS* should create an exception on the very first instance, enter **0** in this field. This field requires an entry and cannot be left blank.

8. When all necessary time limits and thresholds have been entered, select **Actions > Modify** from the menu bar.

Supervisor updates the exception configuration data for this vector and the status bar displays a **Successful** message.

Deleting vector exceptions

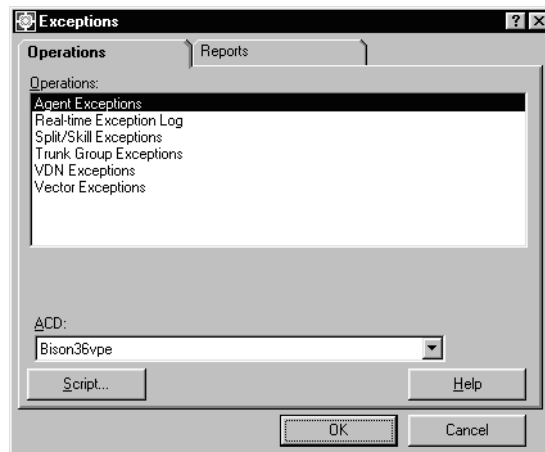
This section provides the procedure for deleting existing vector exception configurations.

Steps

To delete a vector exception configuration:

1. From the Controller window, select **Commands > Exceptions**.

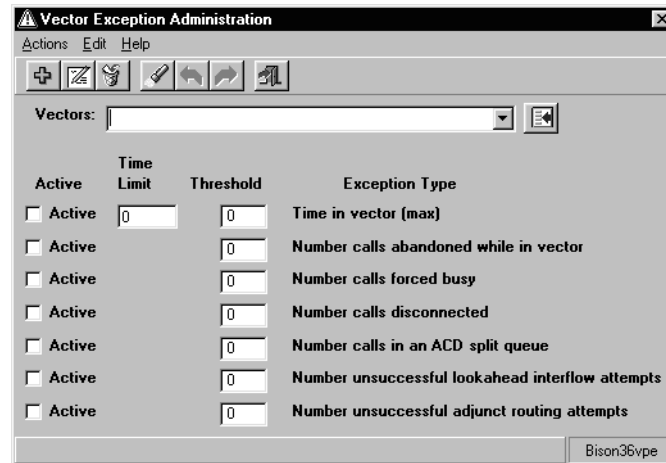
Supervisor displays the **Exceptions** window.



2. In the **ACD:** field, select the ACD that contains the vector and its exception configuration.
3. In the **Operations:** list, highlight **Vector Exceptions**.

4. Select **OK**.

Supervisor displays the **Vector Exception Administration** window.



5. In the **Vectors:** field, enter the name or number of the vector for which the exception configuration is to be deleted.
6. From the menu bar, select **Actions > Find one**.

Supervisor locates the agent exception configuration for the specified split/skill and displays the data in the appropriate fields. If the exception configuration data cannot be found, the status bar displays **0 matches found**.

To have all vectors returned in this step, leave the **Vectors:** field blank before performing the **Find one** action. *Supervisor* will return all vectors for which you have the *read* permission. You can then use the **Next** and **Previous** menu actions to cycle through the vectors.

7. From the menu bar, select **Actions > Delete**.

Supervisor deletes the exception configuration for this vector from the *CMS* database and displays a **Successful** message in the status bar.

Vector exception definitions

The following table provides the definitions for the different vector exceptions:

In this field...	Enter this value...
Time in vector (max)	The maximum acceptable time in seconds that a call is in vector processing. This exception cannot trigger more than once per interval.
Number of calls abandoned while in vector	The maximum acceptable number of calls that are abandoned during vector processing in an interval. This exception cannot trigger more than once within an interval.
Number of calls forced busy	The maximum acceptable number of calls that encountered a forced busy step in a vector during an interval. This exception cannot trigger more than once per interval.
Number of calls disconnected	The maximum acceptable number of calls that are disconnected during vector processing during an interval. Disconnects can be caused by the disconnect vector command, by the vector disconnect timer, or because a call reached the end of vector processing without being queued. This exception cannot be triggered more than once per interval.
Number of calls in an ACD split or skill queue	The maximum acceptable number of calls to this vector that are in a split/skill queue.
Number of unsuccessful look ahead interflow attempts	The maximum acceptable number of calls to this vector that fail to interflow to another MultiVantage system during an interval. The route-to vector command causes a call to interflow. This exception cannot trigger more than once per interval.
Number of unsuccessful adjunct routing attempts	The maximum acceptable number of failures for a call in this vector to connect to an adjunct host computer during an interval. The failure of an adjunct route link vector command causes an unsuccessful adjunct routing attempt. This exception cannot trigger more than one exception per interval.

Vector exceptions report

Use the vector exceptions report to view exceptions that have occurred for the selected vectors. For each vector exception, the report shows the time and type of exception.

Before you begin

To be able to view data for a vector exception report, the following events must have occurred:

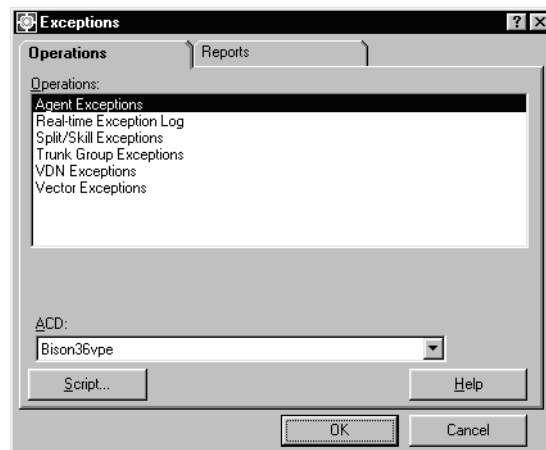
- One or more vector exceptions must have been activated at some time in the past.
- The exceptions must have occurred at some point. Otherwise, the report is blank.
- Active exceptions must be specified in the input window so that they are included in the report.

Steps

To run an vector exceptions report:

1. From the Controller window, select **Commands > Exceptions**.

Supervisor displays the **Exceptions** window.



2. Select the **Reports** tab.
3. In the **ACD:** field, select the ACD that contains the vector on which to run the report.
4. In the **Reports:** list, highlight **Vector Exceptions**.

Administering exceptions

5. Select **OK**.

Supervisor displays the **Vector Exceptions** window.

The screenshot shows the 'Vector Exceptions' dialog box. In the 'Inputs' section, the 'Date' is set to 2/12/98, 'Vectors' is empty, and 'Order by' is set to 'Time'. The 'Exceptions' list shows 'Time in vector (max)' as the selected exception. Under 'Destination', the 'View Report on Screen' option is selected. The 'Print Report on:' field shows 'ddops3'. The 'OK', 'Cancel', and 'Help' buttons are at the bottom. The status bar at the bottom right indicates 'Bison36vpe'.

6. In the **Date:** field, specify the date to view for the report. Entry of the date can be done through the following methods:

- Enter MM/DD/YY format; for example, **10/06/01**.
- Enter the relative day; for example, **0** for today, **-1** for yesterday, or **-7** for one week ago.
- Enter a relative range; for example, **-9-0** causes the report to display data for the past ten days including today.
- Select a date from the drop-down list.
- Select a date by using the Browse button.

This is a required field.

7. In the **Vectors:** field, specify the name or number of one or more vectors to run the report against. Entry of the vector can be done through the following methods:

- Enter the name or number of the vector.
- Select the vector from the drop-down list.
- Select the vector by using the Browse button.

Multiple vectors can be entered in this field, but must be separated by a semicolon (;). This is a required field.

8. In the **Order by:** field, select one of the following sorting options:

- **Time** - The report results are sorted by the time the exceptions occurred.
- **Vector** - The report results are sorted by vector name or number.

9. In the **Exceptions:** field, select one or more exceptions to include in the report.

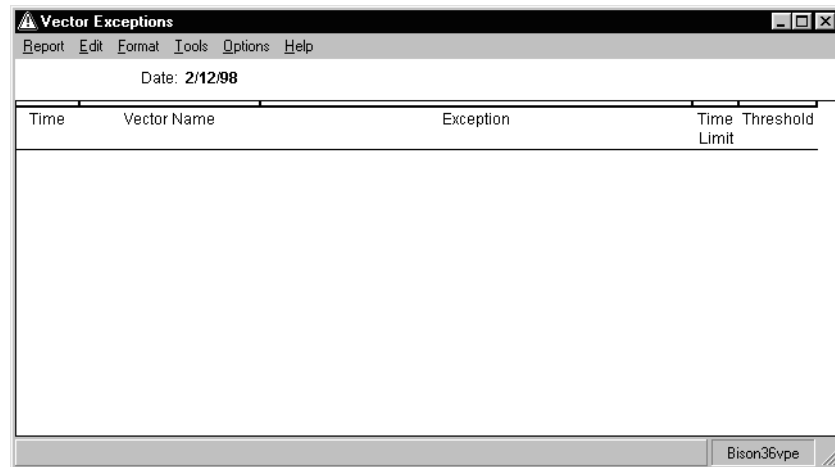
The exceptions selected in this field should be those that have been activated at some point in the past. Selecting exceptions that have not been activated will not return any data in the report.

10. In **Destination** group, select one of the following output options:

- **View Report on Screen** - The report is displayed on the screen.
- **Print Report on:** - The report is sent to the specified printer. Any printer available to the PC can be used and selected through the button at the right of the field.

11. Select **OK**.

Supervisor sends the report to the specified output option.



Administering exceptions

Data collection exceptions report

Use the data collection exceptions report to view any event that affects the storage of contact center data. This includes the following:

- Starting or stopping data collection
- Resetting the clock
- A session (link) is down

Contents

This section contains the following topic:

- [Running a data collection exceptions report](#) on page 412

Before you begin

The following items should be read and understood before working with the data collections exceptions report:

- Exceptions must have occurred for the exception type that you want the report to cover. Otherwise, the report is blank.
- User IDs must have the *exception* permission for the ACD in order to be notified of a *link-down* exception.

Running a data collection exceptions report

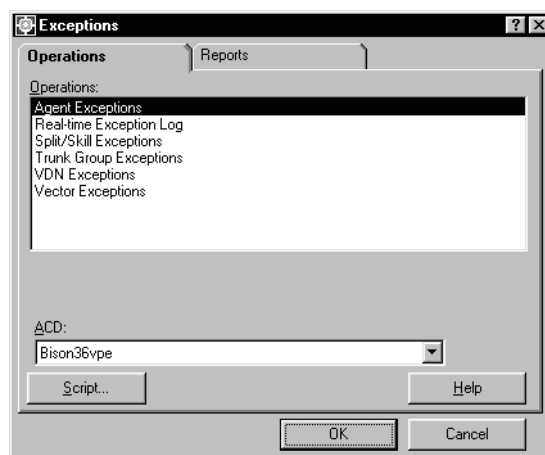
This section provides the procedure for running the data collection exceptions report so that any event that affects the storage of data can be viewed.

Steps

To run the data collection exceptions report:

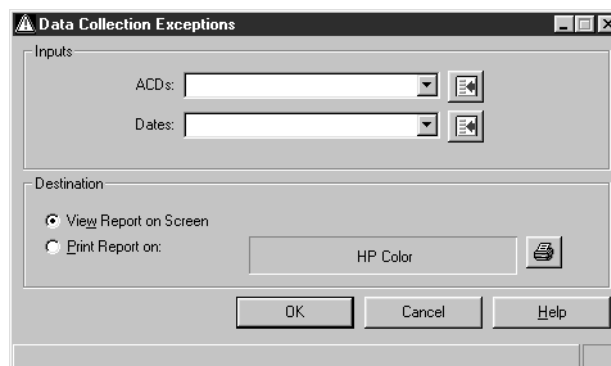
1. From the Controller window, select **Commands > Exceptions**.

Supervisor displays the **Exceptions** window.



2. Select the **Reports** tab.
3. In the **Reports:** list, highlight **Data Collection Exceptions**.
4. Select **OK**.

Supervisor displays the **Data Collection Exceptions** window.



5. In the **ACDs:** field, select one or more ACDs for which you want to run the report.

This field accepts multiple values. Multiple ACDs must be separated by a semicolon (;).

6. In the **Dates:** field, enter the date the report will cover by using one of the following methods:

- Enter MM/DD/YY format; for example, **10/06/01**.
- Enter the related day; for example, **0** for today, **-1** for yesterday, or **-7** for one week ago.
- Enter a relative range; for example, **-9-0** causes the report to display data for the past ten days including today.
- Select the date from the drop-down list box.
- Select a date or date range by using the Browse button.

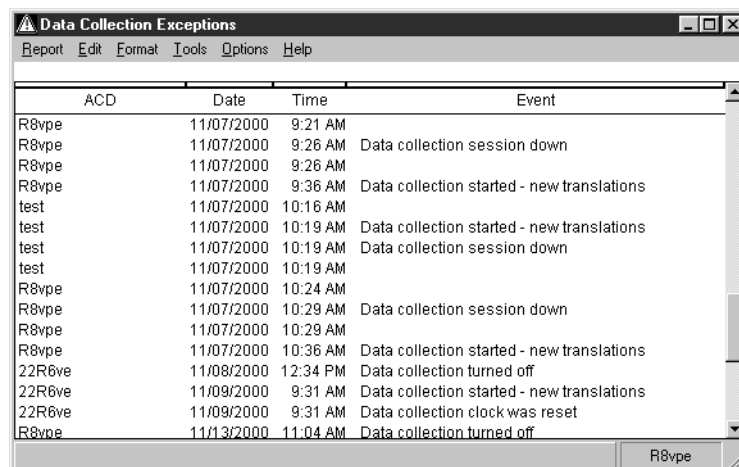
This field can accept multiple date values, but the dates must be separated by a semicolon (;). This field is required.

7. In **Destination** group, select one of the following output options:

- **View Report on Screen** - The report is displayed on the screen.
- **Print Report on:** - The report is sent to the specified printer. Any printer available to the PC can be used and selected through the button at the right of the field.

8. Select **OK**.

Supervisor sends the data collection exceptions report to the specified output method.



The screenshot shows a window titled "Data Collection Exceptions" with a menu bar (Report, Edit, Format, Tools, Options, Help) and a table of data. The table has four columns: ACD, Date, Time, and Event. The data is as follows:

ACD	Date	Time	Event
R8vpe	11/07/2000	9:21 AM	
R8vpe	11/07/2000	9:26 AM	Data collection session down
R8vpe	11/07/2000	9:26 AM	
R8vpe	11/07/2000	9:36 AM	Data collection started - new translations
test	11/07/2000	10:16 AM	
test	11/07/2000	10:19 AM	Data collection started - new translations
test	11/07/2000	10:19 AM	Data collection session down
test	11/07/2000	10:19 AM	
R8vpe	11/07/2000	10:24 AM	
R8vpe	11/07/2000	10:29 AM	Data collection session down
R8vpe	11/07/2000	10:29 AM	
R8vpe	11/07/2000	10:36 AM	Data collection started - new translations
22R6ve	11/08/2000	12:34 PM	Data collection turned off
22R6ve	11/09/2000	9:31 AM	Data collection started - new translations
22R6ve	11/09/2000	9:31 AM	Data collection clock was reset
R8vpe	11/13/2000	11:04 AM	Data collection turned off

At the bottom right of the window, there is a button labeled "R8vpe".

Malicious call trace report

The Malicious Call Trace feature provides a way for a terminal user to notify a predefined set of users that he or she may be party to a malicious call, such as bomb threats, hackers, and so forth.

The following actions occur when the Malicious Call Trace feature is activated:

- The inbound phone line is prevented from “hanging up”.
- Management is immediately alerted.
- The call is recorded (with an additional MultiVantage feature).
- All data regarding the call is stored.

The malicious call trace report is used to view detailed information on the occurrences of these calls. The report shows the date and time when each call occurred, the agent who received the call, and the involved split or skill. If the automatic number identification / station number identification (ANI/SID) network feature has been purchased and implemented, the report also shows where the call originated. This report is only available with *Supervisor*.

Contents

This section contains the following topic:

- [Running a malicious call trace report](#) on page 416

Before you begin

The following items should be read and understood before working with the malicious call trace report:

- To view the malicious call trace report, the user ID used to log in to this *Supervisor* session requires the *exception* permission for the split/skill that received the malicious call.

Running a malicious call trace report

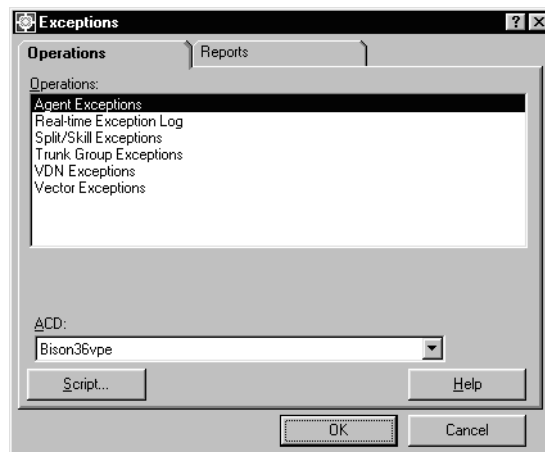
This section provides the procedure for running a malicious call trace report.

Steps

To run a malicious call trace report:

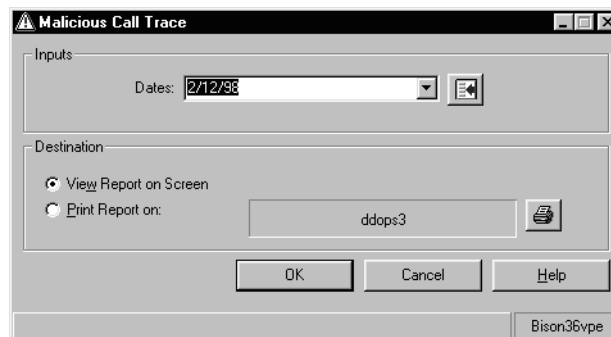
1. From the Controller window, select **Commands > Exceptions**.

*Supervisor displays the **Exceptions** window.*



2. Select the **Reports** tab.
3. In the **ACD:** field, select the ACD for which the report will gather data.
4. In the **Reports:** list, highlight **Malicious Call Trace by Location**.
5. Select **OK**.

*Supervisor displays the **Malicious Call Trace** window.*



6. In the **Dates:** field, enter the date the report will cover by using one of the following methods:
 - Enter MM/DD/YY format; for example, **10/06/01**.
 - Enter the related day; for example, **0** for today, **-1** for yesterday, or **-7** for one week ago.
 - Enter a relative range; for example, **-9-0** causes the report to display data for the past ten days including today.
 - Select the date from the drop-down list box.
 - Select a date or date range by using the Browse button.

This field can accept multiple date values, but the dates must be separated by a semicolon (;). This field is required.
7. In **Destination** group, select one of the following output options:
 - **View Report on Screen** - The report is displayed on the screen.
 - **Print Report on:** - The report is sent to the specified printer. Any printer available to the PC can be used and selected through the button at the right of the field.
8. Select **OK**.

Supervisor sends the malicious call trace report to the specified output method.

Date	Time	Split/Skill	Agent Name	Login ID	Agent Location ID	Trunk Group Name	Trunk	Trunk Location ID	VDN Name	Calling Party	Information Indicator

test

Real-time exceptions log

The real-time exception log lists the last ten exceptions in chronological order, with the oldest exception listed first. The log displays all types of exceptions for which the user has the *exception* permission, such as agent, split/skill, trunk group, VDN, and vector.

Contents

This section contains the following topic:

- [Running the real-time exceptions log](#) on page 420

Before you begin

The following items should be read and understood before working with the real-time exceptions log:

- When the log is first opened, the most recent exception is on the last line in the window. As long as the window remains open, the log automatically scrolls to display each new exception record. If the scroll bar is used to view the older records at the top of the log, automatic scrolling for new exceptions stops until the user scrolls back to the bottom of the log.
- Each exception record in the log supplies the following information:
 - The date and time that the exception occurred
 - The name of the ACD for which the exception occurred
 - The ACD element, such as a specific agent, split/skill, or VDN that was involved in the exception.

If names for these elements were assigned in the Dictionary, these will display instead. If the names are longer than the space that is allowed in the exception record, the names will be truncated.

- The information about an activity that fell outside of the exception conditions that you set.

Therefore, for a peg count exception, the exception record shows the occurrence threshold that you set, even though the number of occurrences may be substantially greater. For a timed exception, the exception record shows the time limit that you set, not the actual duration of an occurrence.

- The real-time exception log can hold a maximum of 100 records. If a new exception occurs when the log is full, the oldest exception is deleted so that the new exception can be recorded.

Running the real-time exceptions log

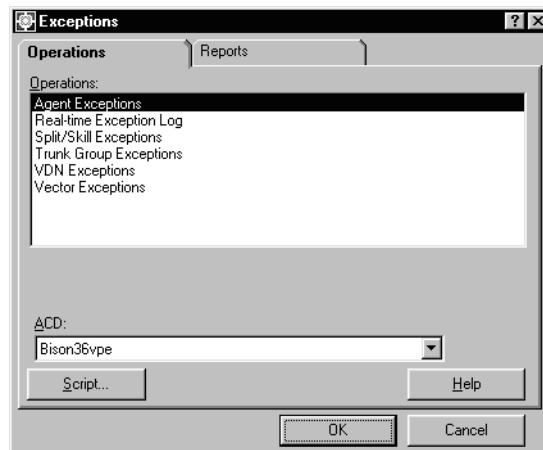
This section provides the procedure for running the real-time exceptions log.

Steps

To run the real-time exceptions log:

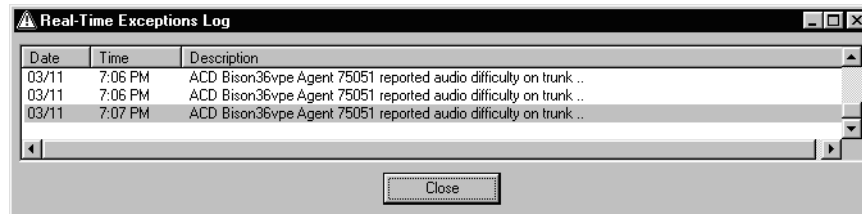
1. From the Controller window, select **Commands > Exceptions**.

*Supervisor displays the **Exceptions** window.*



2. In the **ACD:** field, select the ACD for which exceptions will be shown.
3. In the **Operations:** list, highlight **Real-time Exception Log**.
4. Select **OK**.

*Supervisor displays the **Real-Time Exception Log** window.*



Chapter 9: Administering user permissions

The *User Permissions* subsystem is used to create *CMS* user IDs as well as assigning and administering user permissions such as *read*, *write*, and *exception* permissions for ACDs, splits/skills, trunk groups, VDNs, and vectors.

The default *CMS* administrator user ID, *cms*, provides access to the entire system. Using the *cms* ID, user IDs can be created for each person requiring access to the *CMS* system and set with the permissions necessary to perform job duties. Users should not share an ID since logging in with the same ID at multiple terminals uses more system resources than if each user had different IDs.

Contents

This section contains the following topics regarding user permissions:

- [User data](#) on page 423
- [ACD access](#) on page 437
- [Feature access](#) on page 449
- [Main Menu Addition Access](#) on page 457
- [Split/Skill access](#) on page 465
- [Trunk group access](#) on page 479
- [Vector access](#) on page 493
- [VDN access](#) on page 507

Example of user permissions



Important:

Any user ID (normal or administrator) given *write* access to the *User Permission* feature will be able to alter their own permissions for all *CMS* subsystems.

Administering user permissions

The following table displays an example of permissions that would be necessary for a split supervisor:

If the contact center has one split called...	And assigned to it are...	The split 1 supervisor requires read/write permissions for...
Split 1	Trunk groups 22 and 23	Split 1 Trunk groups 22 and 23 Dictionary Exceptions

Before you begin

If an ACD Group is selected as the current ACD in the **User Permissions** window, only those operations that are valid for the ACD Group will appear in the **Operations:** list.

User data

In order for users to use *Supervisor*, they must first be created through the *User Data* feature. Afterwards, users can use their assigned ID to log in through *Supervisor* and *CMS*. User IDs should only be created for those persons who will be using *Supervisor* as a part of their job duties in administering the contact center.

The **User Data** window is used for the following actions:

- Assign a *CMS* user ID.
- Specify a default *CMS* printer for a user ID.
- Specify a user ID as **Normal** or **Administrator**.
- Administer the maximum number of open simultaneous windows allowed for a user ID.
- Set the minimum refresh rate for real-time reports for a user ID.
- Set the default logon ACD for a user ID.

Contents

This section contains the following topics:

- [Adding a CMS user](#) on page 424
- [Viewing CMS users](#) on page 428
- [Modifying CMS users](#) on page 431
- [Deleting CMS users](#) on page 434

Adding a CMS user

This section provides the procedure for adding a user through *Supervisor*.

Before you begin

The following items should be read and understood before adding a user:

- A user ID must be created before any permissions can be assigned to it.
- Users added through the Sun Microsystems, Inc. *Solaris*® system instead of the **User Data** window will not be able to run *CMS* without assuming the role of a valid user by using the **su** command. Solaris users will have a shell of `/usr/bin/sh`. The **User Data** window will not display users that were created through Solaris.
- Users added through the **User Data** window will automatically have *CMS* launch when they log in. The shell for these users will be `/usr/bin/cms`.
- The **User Data** window can be run through scripts and timetables.

Permissions

Depending on the procedure to be performed, the following permissions must be observed:

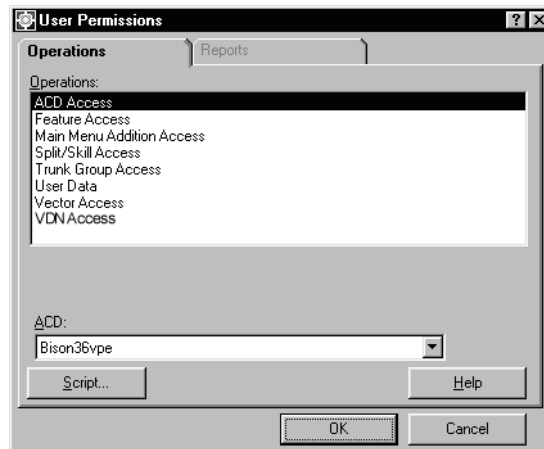
- To display the **User Data** window and view user information, the user ID used to log in to this *Supervisor* session requires *read* permission for the **User Permissions** subsystem.
- To add, delete, or modify users through the **User Data** window, the user ID used to log in to this *Supervisor* session requires *write* permission for the **User Permissions** subsystem.

Steps

To add a CMS user ID:

1. From the Controller window, select **Tools > User Permissions**.

*Supervisor displays the **User Permissions** window.*



The **Vector Access** and **VDN Access** menu items are listed if the Call Vectoring feature has been purchased.

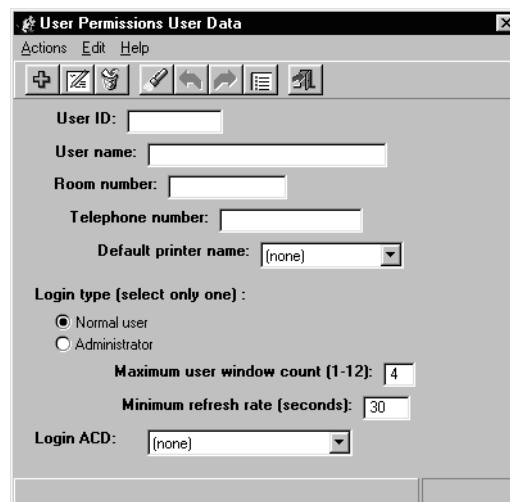
2. In the **ACD:** field, select the ACD or ACD Group on which the user will be created.

The same user ID does not need to be created on each ACD. A user created on one ACD can be given permissions to the other ACDs.

3. In the **Operations:** list, highlight **User Data**.

4. Select **OK**.

*Supervisor displays the **User Permissions User Data** window.*



Administering user permissions

5. In the **User ID:** field, enter the new user ID to be created. The user ID must adhere to the following rules:

- The user ID can be three to eight characters.
- User IDs cannot contain certain diacritical, accented, special characters, or blanks (for example, **á**, **ñ**, **ç**, **|**, **©**). If a user ID is entered with an invalid character, *Supervisor* displays an error message.

This is a required field.

6. In the **User name:**, **Room number:**, and **Telephone number:** fields, enter the appropriate information for this user.

These fields are optional and may be left blank.

7. In the **Default printer name:** field, select a default *CMS* printer from the drop-down list box for this user ID.

This field is optional and may be left as **(none)**.

8. For **Login type:**, select the role of this user ID:

- **Normal user** - Select this type to designate those users whose job responsibilities *do not* include maintenance, configuration, and updating of *CMS*.

This role of user has only the *read* permission for the following features:

- Agent Administration
- Custom Reports/Report Designer
- Dictionary
- Exceptions
- Forecast
- Maintenance
- Reports
- Timetable

- **Administrator** - Select this type to designate those users whose job responsibilities include maintenance, configuration, or updating of *CMS*. This user role is assigned *read* and *write* permissions for all features.



Important:

Changing the role of the user after creation will not change any permissions assigned to the user. All permission changes need to be done manually.

9. In the **Maximum user window count (1–12):** field, enter the number of windows that the user may have open simultaneously. The default for this field is **4**.



Important:

Allowing many users to have multiple windows open will consume more CMS processor resources.

10. In the **Minimum refresh rate (seconds):** field, enter the number of seconds (**3–600**) in which data for real-time reports is retrieved again from the database and displayed for this user ID.



Important:

Faster refresh rates consume more CMS processor resources.

11. In the **Login ACD:** field, select the ACD which will be used to login this user ID. The user can change the current ACD after logging in, but each time the user logs in, the current ACD defaults to the value entered in this field.

If an ACD is selected in this field for log in and the user does not have any permissions for it, *Supervisor* displays an error message.

This is a required field and cannot be left with the default value of **(none)**.

12. Select **Actions > Add** from the menu bar.

The user ID is created on the ACD specified earlier in the **User Permissions** dialog box. If the user ID already exists, *Supervisor* displays an **Already exists** message in the status bar.

Viewing CMS users

This section provides the procedure for viewing one or more existing *CMS* users through the **User Data** window.

Before you begin

The following items should be read and understood before attempting to view users through the **User Data** window:

- The default values in the **User Data** window should be cleared before attempting to perform a **Find one** or **List all** action unless these values should be included in the search.

Permissions

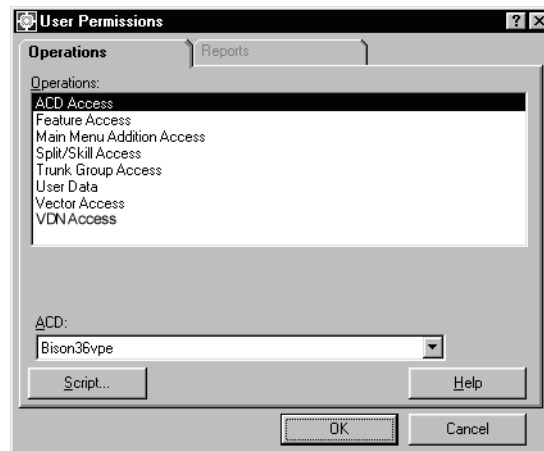
Depending on the procedure to be performed, the following permissions must be observed:

- To display the **User Data** window and view user information, the user ID used to log in to this *Supervisor* session requires *read* permission for the **User Permissions** subsystem.
- To add, delete, or modify users through the **User Data** window, the user ID used to log in to this *Supervisor* session requires *write* permission for the **User Permissions** subsystem.

Steps

1. From the Controller window, select **Tools > User Permissions**.

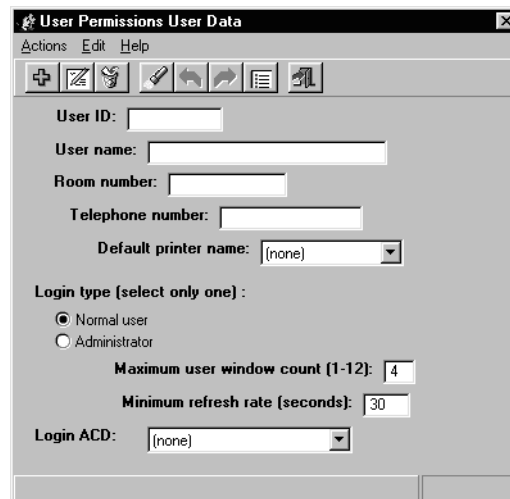
Supervisor displays the **User Permissions** window.



The **Vector Access** and **VDN Access** menu items are listed if the Call Vectoring feature has been purchased.

2. In the **Operations:** list, highlight **User Data**.
3. Select **OK**.

Supervisor displays the **User Permissions User Data** window.



4. Using the menu bar, select **Edit > Clear all**.

The information in all fields is removed. This includes the default information that appears when this window is first displayed.

5. There are two possible methods in searching for and displaying *CMS* user information:

- **List all** - Selecting this item from the **Action** menu will display a secondary window displaying all users whose settings match those in the fields of this window. If no information is present in the fields, all users are displayed. This method is convenient when the need arises to look for one or more user IDs.
- **Find one** - Selecting this item from the **Action** menu will take the information currently in all the fields of this dialog and query the database for users with matching settings. For example, having a **6** in the **Maximum user window count (1–12)**: field with all other fields blank and selecting **Find one** will result in a search for all *CMS* users having a **6** for their **Maximum user window count**. If multiple users are found, each can be viewed by selecting the **Next** and **Previous** items under the **Actions** menu.

When using the **Find one** command, partial text strings are not supported in the search. Therefore, to view the settings for a user ID, the complete name must be entered in the **User ID**: field.

If multiple users are found using the **Find one** action, the **Next** action will not become disabled at the last user, but instead cause the first user found to be displayed again.

Modifying CMS users

This section provides the procedure for modifying the settings for an existing *CMS* user.

Before you begin

The following items should be read and understood before modifying users through the **User Data** window:

- If a user's login ACD is removed and the user tries to log into *CMS*, an acknowledgment tells the user either to contact the *CMS* administrator or to change the login ACD.
- Changing the login type for a user from **Administration** to **Normal** or vice versa does not change the permissions for that user ID. Permissions must be changed manually.
- Changes to maximum window count, minimum refresh rate, or default login ACD for a user do not take effect until the user logs out and back in again.

Permissions

Depending on the procedure to be performed, the following permissions must be observed:

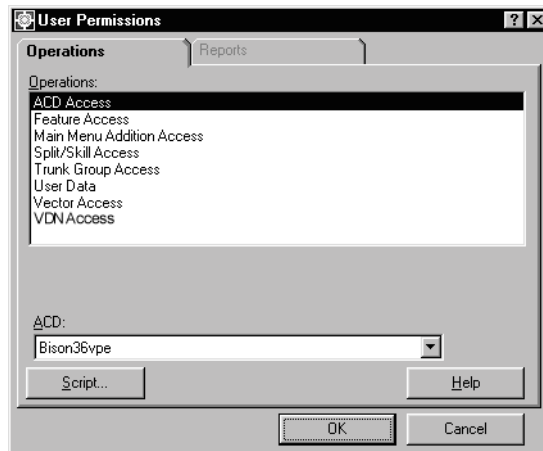
- To display the **User Data** window and view user information, the user ID used to log in to this *Supervisor* session requires *read* permission for the **User Permissions** subsystem.
- To add, delete, or modify users through the **User Data** window, the user ID used to log in to this *Supervisor* session requires *write* permission for the **User Permissions** subsystem.

Steps

To modify the settings for an existing CMS user:

1. From the Controller window, select **Tools > User Permissions**.

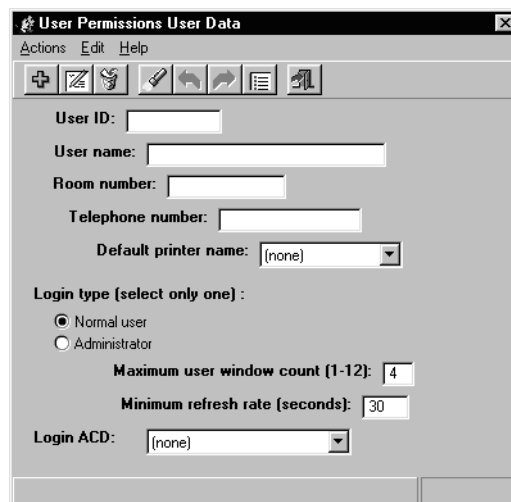
Supervisor displays the **User Permissions** window.



The **Vector Access** and **VDN Access** menu items are listed if the Call Vectoring feature has been purchased.

2. In the **Operations:** list, highlight **User Data**.
3. Select **OK**.

Supervisor displays the **User Permissions User Data** window.



4. Clear all field default values by selecting **Edit > Clear All** from the menu bar.
5. In the **Login type (select only one):** field, select the login type for the user that will be modified.

6. Enter the name of the user to modify in the **User ID:** field.

7. Select **Actions > Find one**.

The settings for the specified user ID will populate their associated fields.

If the user ID was not found, try selecting the other login type in the **Login type (select only one):** field.

8. Modify the settings for this user as needed.

9. After all necessary modifications have been made, select **Actions > Modify**.

The settings for this user are updated and the status bar will display a **Successful** message.

Deleting CMS users

This section provides the procedure for deleting an existing *CMS* user.

Before you begin

The following items should be read and understood before deleting users through the **User Data** window:

- Deleting a user ID added through the **User Data** window of CMS will remove that ID and its associated permissions from *CMS* and the Solaris system.
- Deleting a user who had custom reports, designer reports, or timetables, will result in an acknowledgment window asking if those items should be moved to your user ID. If they are moved and there is a conflict between the assigned names, a prompt window will appear allowing the moved items to be renamed. If not moved, any custom reports, designer reports, and timetables will be deleted along with the user ID.

Permissions

Depending on the procedure to be performed, the following permissions must be observed:

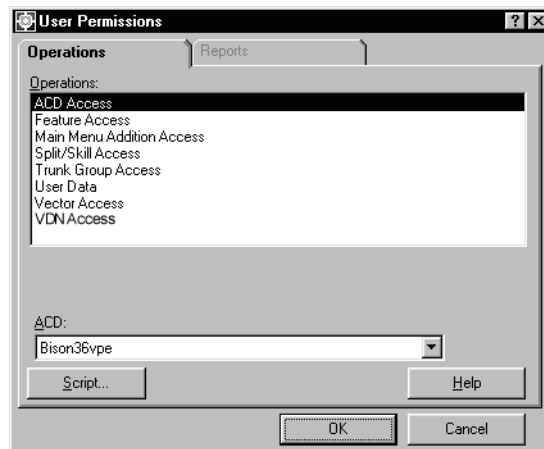
- To display the **User Data** window and view user information, the user ID used to log in to this *Supervisor* session requires *read* permission for the **User Permissions** subsystem.
- To add, delete, or modify users through the **User Data** window, the user ID used to log in to this *Supervisor* session requires *write* permission for the **User Permissions** subsystem.

Steps

To delete an existing CMS user:

1. From the Controller window, select **Tools > User Permissions**.

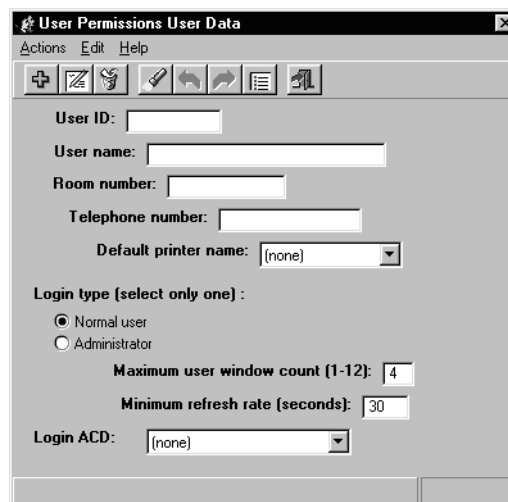
Supervisor displays the **User Permissions** window.



The **Vector Access** and **VDN Access** menu items are listed if the Call Vectoring feature has been purchased.

2. In the **Operations:** list, highlight **User Data**.
3. Select **OK**.

Supervisor displays the **User Permissions User Data** window.



4. Using the menu bar, select **Edit > Clear all**.

The information in all fields is removed. This includes the default information that appears when this window is first displayed.

Administering user permissions

5. In the **Login type (select only one):** field, select the login type of the user that will be deleted.
6. Enter the name of the user in the **User ID:** field.

If the user ID is not known, the other fields of this dialog box can be used to enter information that can return all users having matching information. For example, the **User name:** and **Room number:** fields can have information entered in them.

7. After user-identifying data has been entered in the fields, select **Actions > Find one** from the menu bar.

The status bar will return the number of matches found. Select **Actions > Next** to navigate to the next user in the list, if necessary.

8. When the dialog box displays the correct user, select **Actions > Delete** from the menu bar.

The identified user is deleted from the system and the status bar displays a **Successful** message.

ACD access

The **ACD Access** window is used to view and modify the user permissions for a selected real or pseudo ACD. This window can also be used to turn exception notification on or off for a selected ACD.

Contents

This section contains the following topics:

- [Adding ACD access](#) on page 439
- [Viewing ACD access](#) on page 441
- [Listing all ACD access](#) on page 443
- [Modifying ACD access](#) on page 445
- [Deleting ACD access](#) on page 447

Before you begin

The following items should be read and understood before working with ACD access permissions:

- By default, a newly-created user is granted *read*, *write*, and *exceptions* permissions for all real and pseudo ACDs.
- User permissions for ACD access are stored separately from the user ID created through the [Adding a CMS user](#) procedure. Because of this, user permissions for the ACD can be deleted and modified without affecting the state of the user ID.
- If the ACD permissions for a user are changed, the change does not take effect until the user logs out and logs back in again.
- If the *read* and *write* permissions are disabled for a user, then the user will not be able to access any splits/skills, trunk groups, vectors, or VDNs in that ACD. If *read* is enabled and *write* is disabled, the user will not be able to modify splits/skills, trunk groups, vectors, or VDNs in that ACD.
- If the permissions for the default login ACD of a user are removed, the user must have another login ACD assigned.
- A user must be created through the **User Data** window before any ACD permissions can be assigned.

Administering user permissions

- Users should only have the ACD permissions necessary to perform job duties. Assigning only those necessary user permissions will ensure the best system performance.
- In some instances, it may be necessary to restrict a user from viewing information on an ACD. To do so, either delete the permissions definition for the user or remove all permissions for the necessary ACDs. Deleting the ACD permissions definition for a user will save more disk space.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view user permission settings in the **ACD Access** window, the user ID used to log in to this *Supervisor* session requires *read* permission for the **User Permissions** subsystem.
- To add, delete, or modify user permission settings in the **ACD Access** window, the user ID used to log in to this *Supervisor* session requires *write* permission for the **User Permissions** subsystem.

Adding ACD access

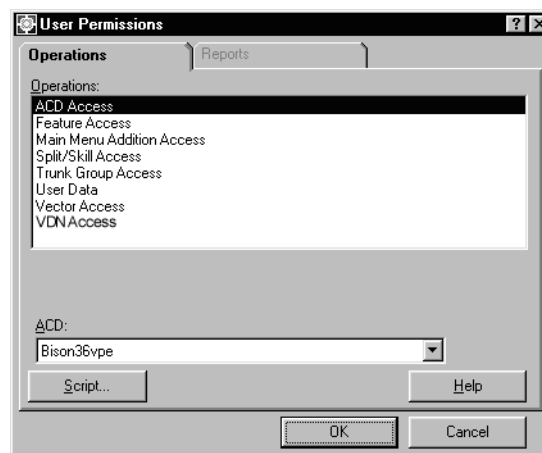
This section provides the procedure for adding ACD access permissions for a CMS user. Since a user permission definition for ACD access is created by default when the user ID is created, this procedure is only necessary if that permission definition has been deleted.

Steps

To add a user permission definition for an ACD:

1. On the Controller window, select **Tools > User Permissions**.

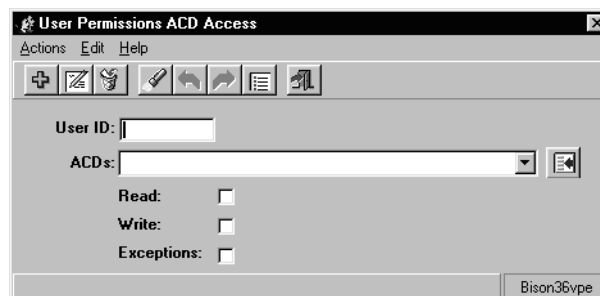
Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **ACD Access**.

3. Select **OK**.

Supervisor displays the **User Permissions ACD Access** window.



4. In the **User ID:** field, enter the ID of the user for whom to create an ACD permissions definition.

This field is required.

Administering user permissions

5. In the **ACD:** field, enter the names or numbers for one or more ACDs that this user will be able to access (real, pseudo, or group).

Multiple values in this field must be separated with a semicolon (;).

6. Place a check mark in the permissions that will be assigned to this user:

- **Read:** - User can view but not modify information for the specified ACDs.
- **Write:** - User can modify information on the specified ACDs. This permission requires that the user also have the *read* permission.
- **Exceptions:** - User will receive notification of exceptions occurring on the specified ACDs.

7. After assigning the necessary permissions, select **Actions > Add** from the menu bar.

The ACD permissions for this user are saved.

It is possible to add permission definitions for multiple users at one time. To do so, enter multiple *CMS* users in the **User ID:** field and separate them with semicolons (;). The ACDs specified in the **ACDs:** field and the selected permissions are then created for these user IDs when the **Add** action is performed.

Viewing ACD access

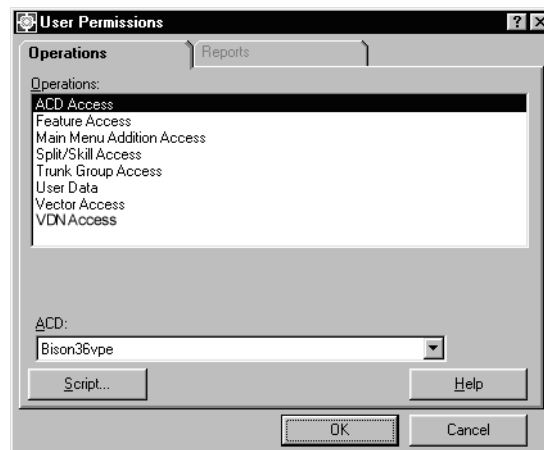
This section provides the procedure for viewing the ACD access permissions for a *CMS* user.

Steps

To view the ACD permission definition for a *CMS* user:

1. On the Controller window, select **Tools > User Permissions**.

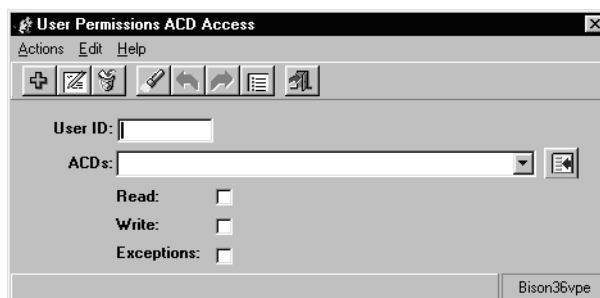
Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **ACD Access**.

3. Select **OK**.

Supervisor displays the **User Permissions ACD Access** window.



Administering user permissions

4. In the **User ID:** field, enter the ID of the *CMS* user for which the permissions for ACDs are to be viewed.

This field is required.

When searching for the user permissions definitions on specific ACDs, these ACDs can be entered in the **ACDs:** field. Multiple entries must be separated by a semicolon (;).

5. From the menu bar, select **Actions > Find one**.

The status bar displays how many matching permission definitions are available. The fields of this window display the user permissions definition for the first ACD.

If more than one ACD is returned, use the **Next** action to view the permission definitions for the other ACDs.

Listing all ACD access

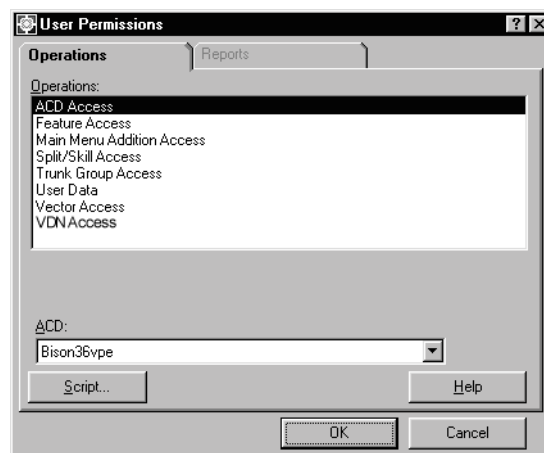
This section provides the procedure for listing the ACD permission definitions for all *CMS* users.

Steps

To list all ACD permission definitions for all *CMS* users:

1. On the Controller window, select **Tools > User Permissions**.

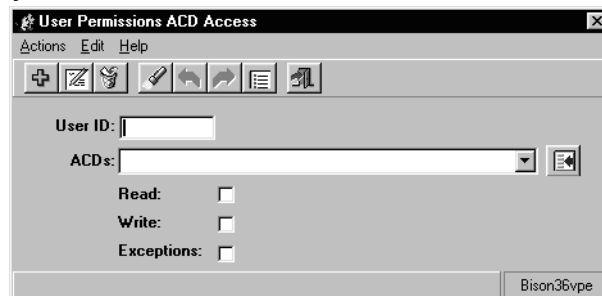
Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **ACD Access**.

3. Select **OK**.

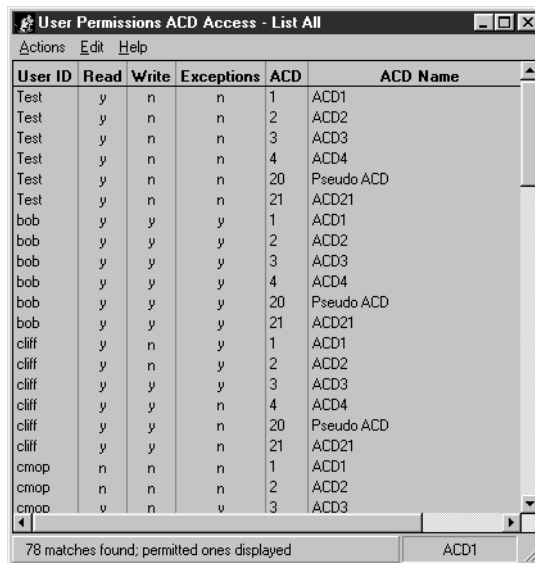
Supervisor displays the **User Permissions ACD Access** window.



Administering user permissions

4. From the menu bar, select **Actions > List all**.

All user permission definitions are displayed with their corresponding ACDs. Only those ACDs for which you have *read* permission will be shown.



The screenshot shows a window titled "User Permissions ACD Access - List All" with a menu bar containing "Actions", "Edit", and "Help". The main area is a table with the following columns: "User ID", "Read", "Write", "Exceptions", "ACD", and "ACD Name". The table lists permissions for users "Test", "bob", "cliff", and "cmop". The "Test" user has read permissions for ACDs 1, 2, 3, 4, 20, and 21. The "bob" user has read, write, and exception permissions for ACDs 1, 2, 3, 4, 20, and 21. The "cliff" user has read, write, and exception permissions for ACDs 1, 2, 3, 4, 20, and 21. The "cmop" user has no permissions for ACDs 1, 2, and 3. The status bar at the bottom indicates "78 matches found; permitted ones displayed" and "ACD1".

User ID	Read	Write	Exceptions	ACD	ACD Name
Test	y	n	n	1	ACD1
Test	y	n	n	2	ACD2
Test	y	n	n	3	ACD3
Test	y	n	n	4	ACD4
Test	y	n	n	20	Pseudo ACD
Test	y	n	n	21	ACD21
bob	y	y	y	1	ACD1
bob	y	y	y	2	ACD2
bob	y	y	y	3	ACD3
bob	y	y	y	4	ACD4
bob	y	y	y	20	Pseudo ACD
bob	y	y	y	21	ACD21
cliff	y	n	y	1	ACD1
cliff	y	n	y	2	ACD2
cliff	y	y	y	3	ACD3
cliff	y	y	n	4	ACD4
cliff	y	y	n	20	Pseudo ACD
cliff	y	y	n	21	ACD21
cmop	n	n	n	1	ACD1
cmop	n	n	n	2	ACD2
cmop	n	n	n	3	ACD3

Modifying ACD access

This section provides the procedure for modifying the ACD permission definitions for a *CMS* user.

If all ACD permissions are to be denied for a user, deleting the permissions definition for the user will save more disk space and accomplish the same goal.

 Important:

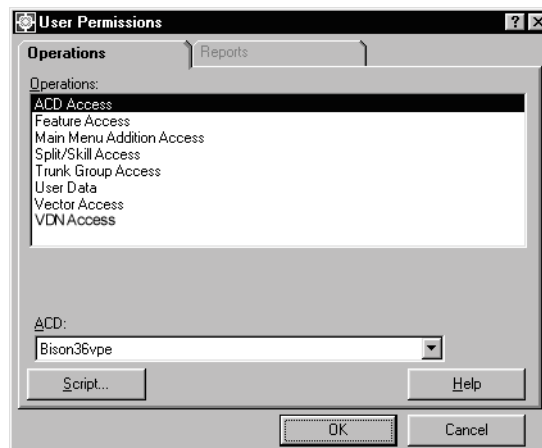
If the *read* permissions is denied for the ACD that the user logs into, that user will no longer be able to log on. A new default login ACD must be set for the user.

Steps

To modify the ACD permissions definition for a *CMS* user:

1. On the Controller window, select **Tools > User Permissions**.

Supervisor displays the **User Permissions** window.

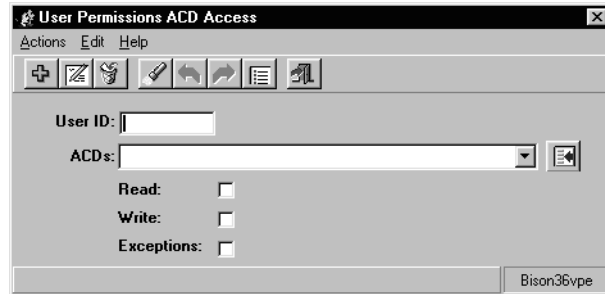


2. In the **Operations:** list, highlight **ACD Access**.

Administering user permissions

3. Select **OK**.

Supervisor displays the **User Permissions ACD Access** window.



4. In the **User ID:** field, enter the ID of the *CMS* user for which the permissions for ACDs are to be modified.

When searching for the user permissions definitions on specific ACDs, these ACDs can be entered in the **ACDs:** field. Multiple entries must be separated by a semicolon (;). These entries can include real ACDs, pseudo-ACDs, or ACD Groups.

5. From the menu bar, select **Actions > Find one**.

The status bar displays how many matching permission definitions are available. The fields of this window display the user permissions definition for the first ACD.

If more than one ACD is returned, use the **Next** action to view the permission definitions for the other ACDs.

6. Once the correct permission definition is displayed in the window, change the permissions by adding or removing check marks in the **Read:**, **Write:**, or **Exceptions:** check boxes.
7. Once the permissions have been changed to the necessary settings, select **Actions > Modify** from the menu bar.

The user permissions definition for this ACD is updated and the status bar displays a **Successful** message.

Deleting ACD access

This section provides the procedure for deleting the ACD permission definition for a *CMS* user.

 Important:

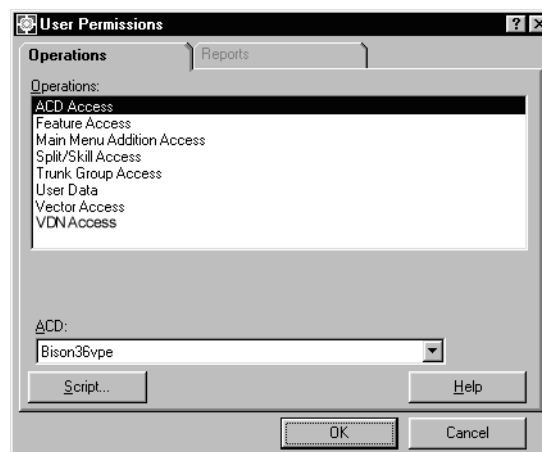
If the user permissions definition is deleted for the ACD that the user logs into, that user will no longer be able to log on. A new default login ACD must be set for the user. Deleting the permissions definition does not restrict the permissions for the user, but actually deletes the user from the specified ACD. This action does not affect the user ID created through the **User Data** feature.

Steps

To delete the ACD permissions definition for a *CMS* user:

1. On the Controller window, select **Tools > User Permissions**.

Supervisor displays the **User Permissions** window.

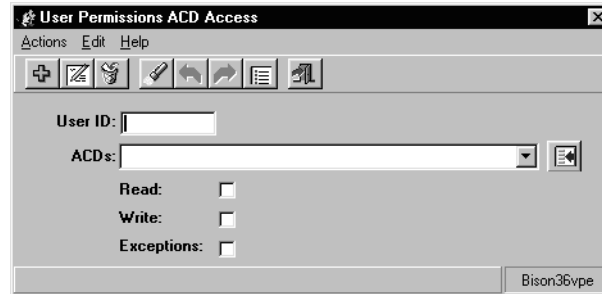


2. In the **Operations:** list, highlight **ACD Access**.

Administering user permissions

3. Select **OK**.

Supervisor displays the **User Permissions ACD Access** window.



4. In the **User ID:** field, enter the ID of the *CMS* user for which the permissions for ACDs are to be modified.

When searching for the user permissions definitions on specific ACDs, these ACDs can be entered in the **ACDs:** field. Multiple entries must be separated by a semicolon (;). These entries can include real ACDs, pseudo-ACDs, or ACD Groups.

5. From the menu bar, select **Actions > Find one**.

The status bar displays how many matching permission definitions are available. The fields of this window display the user permissions definition for the first ACD.

If more than one ACD is returned, use the **Next** action to view the permission definitions for the other ACDs.

6. Once the correct permission definition is displayed in the window, select **Actions > Delete** from the menu bar.

The ACD permissions definition for this user is deleted and the status bar displays a **Successful** message.

7. Once the permissions have been changed to the necessary settings, select **Actions > Modify** from the menu bar.

The user permissions definition for this ACD is updated and the status bar displays a **Successful** message.

Feature access

The **Feature Access** window is used to view and modify the permissions available to a CMS user ID for the following features:

- Agent Administration
- Call Center Administration
- Custom Reports
- Dictionary
- Exceptions
- Forecast
- Maintenance
- Reports
- CMS System Setup
- Timetable
- User Permissions
- UNIX® System

The permissions assigned to a user will affect the appearance of the *Supervisor* Controller window. For example, a user without permissions for the **Dictionary** feature will not have a corresponding toolbar button on the Controller window.

Contents

This section contains the following topics:

- [Viewing Feature Access user permissions](#) on page 451
- [Listing all Feature Access user permissions](#) on page 453
- [Modifying Feature Access user permissions](#) on page 455

Before you begin

The following items should be read and understood before working with **Feature Access** permissions:

- **Feature Access** permissions cannot be modified for the `cms` and `cmssvc` user IDs. This prevents a user with access to the **User Permissions** feature from disabling access to all or part of *CMS* for the administrator or services personnel.
- If the **Feature Access** permissions for a user are modified, the changes do not take effect until the user logs off and back on again.
- A user ID must be created through the **User Data** feature before that user can have **Feature Access** permissions assigned.
- Default **Feature Access** permissions are assigned when a user ID is created. The **Administrator** type of user ID has permissions for all features. The **Normal** type of user ID is given *read* permissions for all features except **User Permissions**, **System Setup**, **Call Center Administration**, and **Forecasting**. User ID types are set through the **User Data** feature. *Avaya CMS Forecast* is purchased separately.
- Assigning a user the *write* permission for the **User Permissions** feature allows that user to change permissions for all users.
- A user ID cannot have *write* permissions without also having *read* permissions.
- If a user does not have *read* permission for a feature, that feature will not be displayed as a toolbar button or menu item in the *Supervisor* Controller window.
- Assigning only the necessary access permissions ensures the best system performance.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view the **Feature Access** window, the user ID used to log in to this *Supervisor* session requires *read* permission for the **User Permissions** subsystem.
- To add, delete, or modify settings through the **Feature Access** window, the user ID used to log in to this *Supervisor* session requires *write* permission for the **User Permissions** subsystem.

Viewing Feature Access user permissions

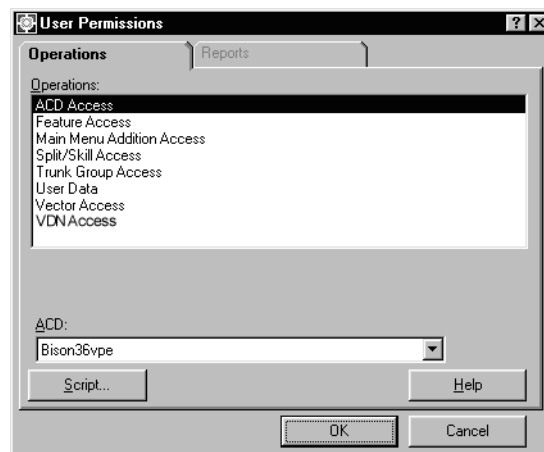
This section provides the procedure for viewing **Feature Access** permissions for a *CMS* user.

Steps

To view the **Feature Access** permissions for a *CMS* user:

1. On the Controller window, select **Tools > User Permissions**.

Supervisor displays the **User Permissions** window.

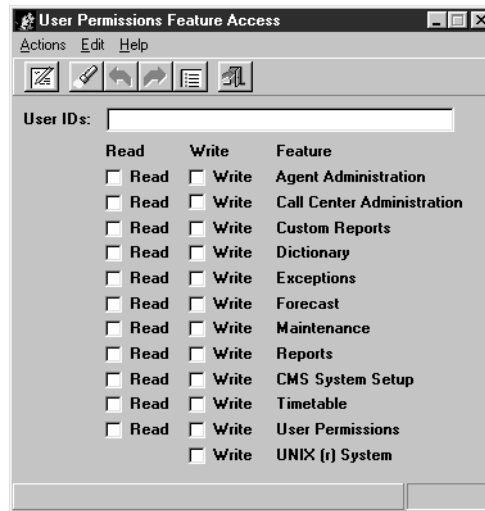


2. In the **Operations:** list, highlight **Feature Access**.
3. In the **ACD:** field, select the ACD or ACD Group on which you want to view user permissions for its feature set.

Administering user permissions

4. Select **OK**.

Supervisor displays the **User Permissions Feature Access** window.



5. In the **User IDs:** field, enter the ID of an existing *CMS* user.

This field can accept more than one user ID. Multiple IDs must be separated by a semicolon (;).

6. From the menu bar, select **Actions > Find one**.

Supervisor will display the permissions for the first user found. If multiple user IDs were entered, the status bar will display the number of matches found.

If multiple matches were found, use the **Actions > Next** command to navigate through the user IDs and their permissions.

Listing all Feature Access user permissions

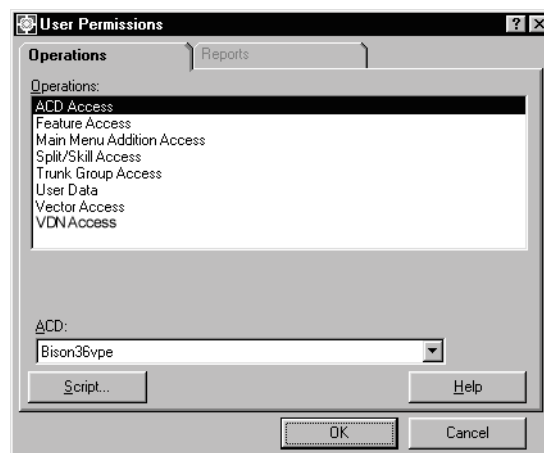
This section provides the procedure for listing the **Feature Access** permissions for all *CMS* users on an ACD or ACD Group.

Steps

To list the **Feature Access** permissions for all *CMS* users:

1. On the Controller window, select **Tools > User Permissions**.

Supervisor displays the **User Permissions** window.

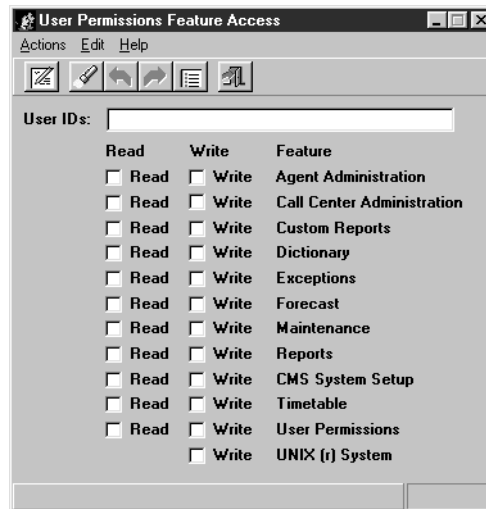


2. In the **Operations:** list, highlight **Feature Access**.
3. In the **ACD:** field, select the ACD or ACD Group to view the user permissions for its feature set.

Administering user permissions

4. Select **OK**.

Supervisor displays the **User Permissions Feature Access** window.



5. From the menu bar, select **Actions > List all**.

Supervisor displays a secondary window listing all users and their associated feature permissions.

Modifying Feature Access user permissions

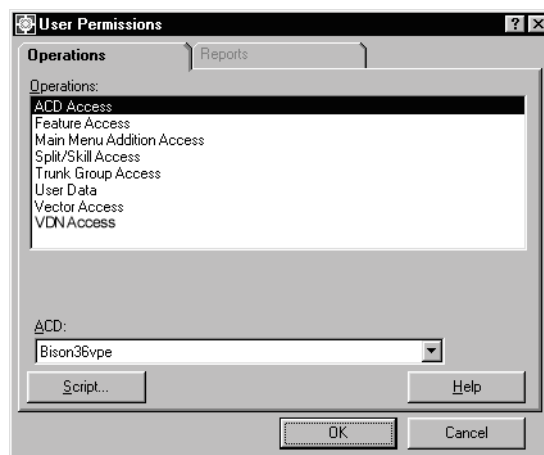
This section provides the procedure for modifying **Feature Access** permissions for a *CMS* user on an ACD or ACD Group.

Steps

To modify **Feature Access** permissions for a *CMS* user:

1. On the Controller window, select **Tools > User Permissions**.

Supervisor displays the **User Permissions** window.

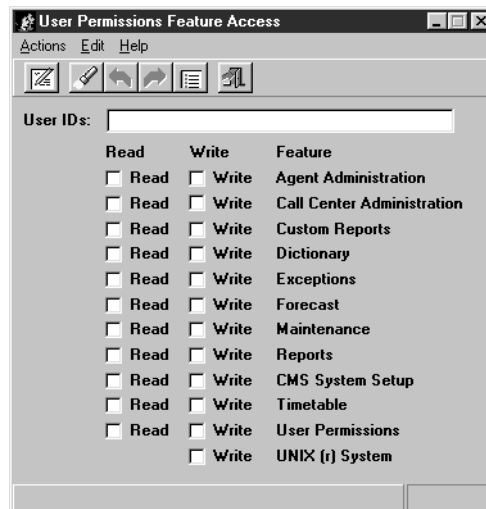


2. In the **Operations:** list, highlight **Feature Access**.
3. In the **ACD:** field, select the ACD or ACD Group on which the user permissions for its feature set will be modified.

Administering user permissions

4. Select **OK**.

Supervisor displays the **User Permissions Feature Access** window.



5. In the **User IDs:** field, enter the ID of an existing *CMS* user.

6. From the menu bar, select **Actions > Find one**.

Supervisor will display the permissions for the user.

A check mark in a check box signifies that the associated feature permission is enabled for the user.

7. Change the **Read** and **Write** permissions as necessary by placing or removing check marks in the check boxes for each feature.
8. When the necessary changes have been made to the user feature permissions, select **Actions > Modify** from the menu bar.

The feature access permissions for this user ID are updated and the status bar displays a **Successful** message.

Main Menu Addition Access

The **Main Menu Addition Access** feature is used to control which custom menu items appear on the *CMS* Main Menu for a user. Custom menu items are created through the **Main Menu Addition** feature which is located in the **System Setup** screen from the *CMS* ASCII interface.

These menu items cannot be created through *Supervisor*.

The custom menu items display on the *CMS* Main Menu which is seen through either *Terminal Emulator*, a telnet session to the *CMS* server, or the *CMS* console. The custom menu items do not display in the *Supervisor* Controller Window.

Contents

This section contains the following topics:

- [Viewing Main Menu Addition Access](#) on page 459
- [Listing all Main Menu Addition Access](#) on page 461
- [Assigning or modifying Main Menu Addition Access](#) on page 463

Before you begin

The following items should be read and understood before working with **Main Menu Addition Access**:

- If the assigned **Main Menu Addition Access** permission for a user is disabled, the custom menu item will not be displayed on the *CMS* Main Menu for that user.
- If a the **Main Menu Addition Access** permission is changed for a user, those changes will not take effect until the user logs out and back in again.
- A user ID must be created through the **User Data** feature before assignments or changes can be made to that user ID through the **Main Menu Addition Access** feature.
- Main Menu additions must be created through **System Setup** before these custom menu items can be assigned to users.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view **Main Menu Addition Access** user configurations, the user ID used to log in to *CMS* requires *read* permission for the **User Permissions** subsystem.
- To add, delete, or modify **Main Menu Addition Access** user configurations, the user ID used to log in to *CMS* requires *write* permission for the **User Permissions** subsystem.

Viewing Main Menu Addition Access

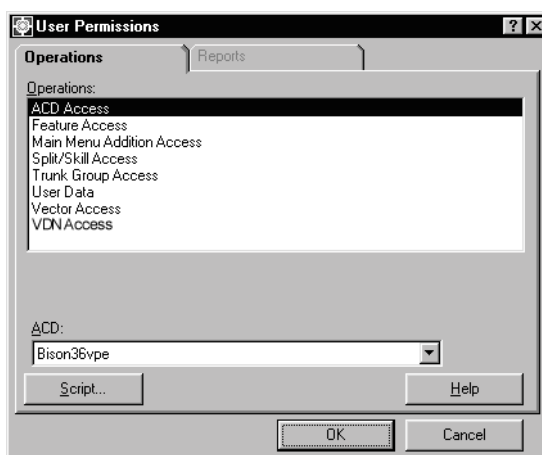
This section provides the procedure for viewing *CMS* user configurations for **Main Menu Addition Access**.

Steps

To view the **Main Menu Addition Access** configuration for a user:

1. On the Controller window, select **Tools > User Permissions**.

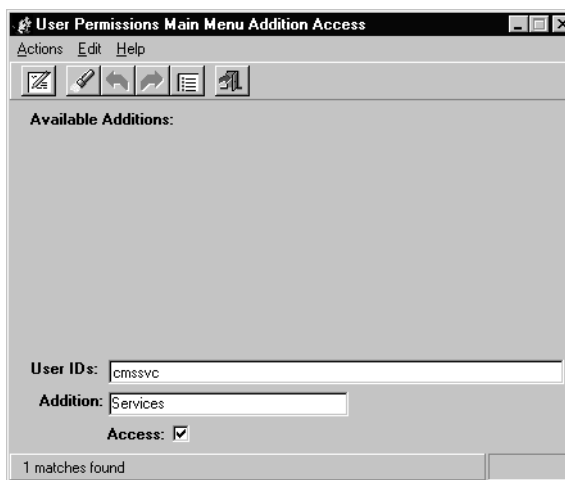
Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **Main Menu Addition Access**.

3. Select **OK**.

Supervisor displays the **User Permissions Main Menu Addition Access** window.



Administering user permissions

4. In the **User IDs:** field, enter a *CMS* user ID that has been previously defined through the **User Data** feature.

This field can accept the entry of multiple users at one time. Multiple entries must be separated by a semicolon (;).

5. From the menu bar, select **Actions > Find one**.

Supervisor retrieves the **Main Menu Addition Access** information for the specified *CMS* user ID and displays this information in the remaining fields.

If multiple users were specified in the **User IDs:** field, the other users and their configurations can be seen by using **Actions > Next** from the menu bar.

Listing all Main Menu Addition Access

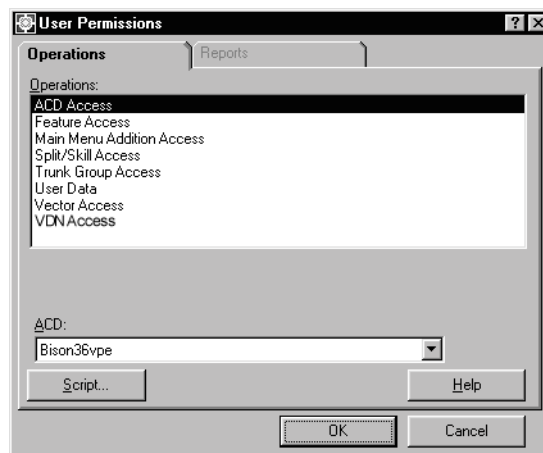
This section provides the procedure for listing all **Main Menu Addition Access** configurations that have been assigned to *CMS* users.

Steps

To list all **Main Menu Addition Access** configurations for *CMS* users:

1. On the Controller window, select **Tools > User Permissions**.

Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **Main Menu Addition Access**.

3. Select **OK**.

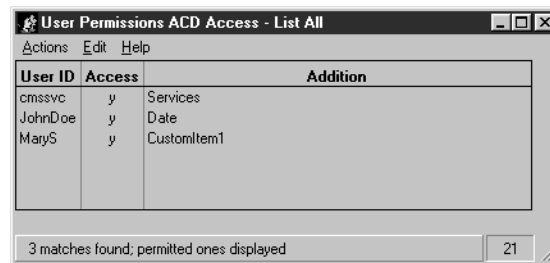
Supervisor displays the **User Permissions Main Menu Addition Access** window.



Administering user permissions

4. From the menu bar, select **Actions > List all**.

Supervisor displays a secondary window listing all *CMS* users that have custom menu items assigned and the permissions for those custom menu items.



User ID	Access	Addition
cmssvc	y	Services
JohnDoe	y	Date
MayaS	y	CustomItem1

3 matches found; permitted ones displayed 21

Assigning or modifying Main Menu Addition Access

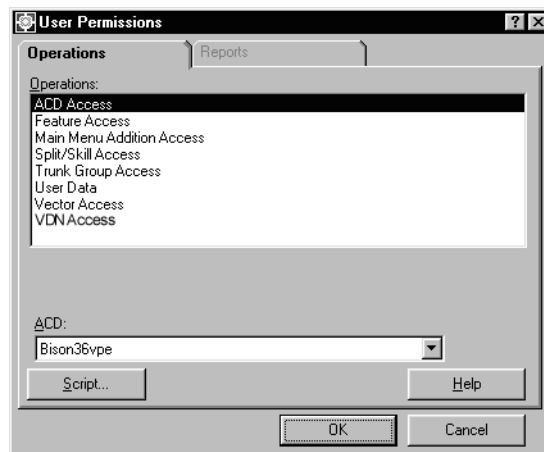
This section provides the procedure for assigning or modifying a custom Main Menu item for a *CMS* user.

Steps

To assign or modify a custom Main Menu item for a *CMS* users:

1. On the Controller window, select **Tools > User Permissions**.

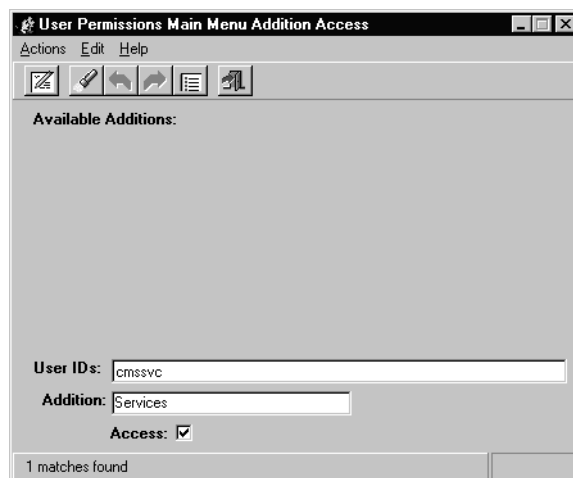
Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **Main Menu Addition Access**.

3. Select **OK**.

Supervisor displays the **User Permissions Main Menu Addition Access** window.



4. In the **User IDs:** field, enter a *CMS* user ID that has been previously defined through the **User Data** feature.

This field can accept the entry of multiple users at one time. Multiple entries must be separated by a semicolon (;).

5. From the menu bar, select **Actions > Find one**.

Supervisor retrieves the Main Menu Addition Access information for the specified *CMS* user ID and displays this information in the remaining fields.

If multiple users were specified in the **User IDs:** field, the other users and their configurations can be seen by using **Actions > Next** from the menu bar.

6. In the **Addition:** field, enter the custom menu item to be assigned or modified for the specified *CMS* user.

7. In the **Access:** check box, place a check mark to enable this custom menu item or remove the check mark to disable this menu item for the specified *CMS* user.

8. From the menu bar, select **Actions > Modify**.

The user configuration is updated and the status bar displays a **Successful** message.

Only the current *CMS* displayed in the **User IDs:** field is modified. If other user IDs are available through using the **Next** command, each one will require the **Modify** action for assignments to be applied.

Split/Skill access

This section provides the procedures for working with user permissions regarding splits/skills.

For users providing administration for splits/skills or running split/skill reports, it is necessary for them to have the proper split/skill permissions to perform their job functions.

Split/skill exceptions notification is also configured through this interface. Users who are given the *Exceptions* permission will be notified of split/skill exceptions when they occur.

Contents

This section contains the following topics:

- [Adding split/skill user permissions](#) on page 467
- [Viewing split/skill user permissions](#) on page 469
- [Listing all split/skill user permissions](#) on page 471
- [Modifying split/skill user permissions](#) on page 473
- [Deleting split/skill user permissions](#) on page 476

Before you begin

The following items should be read and understood before working with split/skill permissions:

- A *CMS* user ID must be created through the **User Data** feature before split/skill permissions can be assigned.
- When a new user ID is created through the **User Data** feature, split/skill permission definitions for that user are not created. This is done to conserve disk space. When a split/skill permissions definition does not exist for a user ID, *CMS* will deny *read* and *write* access to splits/skills.
- A user ID must first have permissions for the ACD on which the split/skill resides before split/skill permissions can be assigned. If a user ID is assigned split/skill permissions and does not have the appropriate ACD permissions, *Supervisor* displays an error message.

Administering user permissions

- A user ID cannot be assigned the *write* permission without first having the *read* permission.
- Assigning only those permissions that are necessary for each user ID ensures the best system performance.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view split/skill user permissions, the user ID used to log in to this *Supervisor* session requires *read* permission for the **User Permissions** subsystem.
- To add, delete, or modify split/skill user permissions, the user ID used to log in to this *Supervisor* session requires *write* permission for the **User Permissions** subsystem.

Adding split/skill user permissions

This section provides the procedure for adding a split/skill permissions definition for a *CMS* user.

Before you begin

The following items should be read and understood before adding a split/skill permissions definition for a *CMS* user:

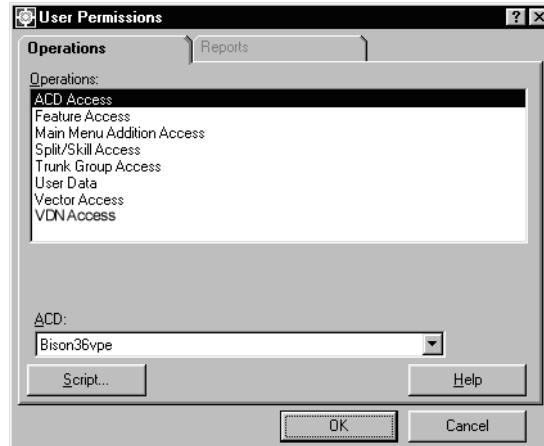
- If a user does not have corresponding ACD permissions for the permissions set for them on the split/skill, *Supervisor* displays an error message.
- When the permissions definition for a user is created, the split/skill permissions do not take effect until the user logs off and back on again.

Steps

To add a split/skill permissions definition for a *CMS* user:

1. On the Controller window, select **Tools > User Permissions**.

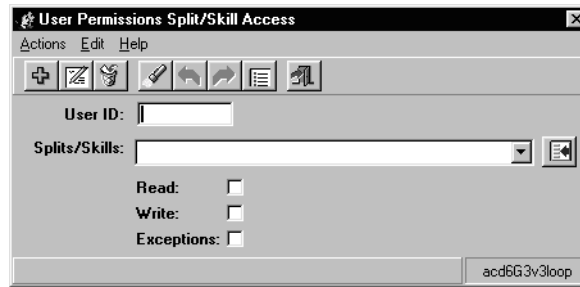
Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **Split/Skill Access**.
3. In the **ACD:** field, select the ACD or ACD Group containing the split/skill for which the user will be given permissions.

4. Select **OK**.

Supervisor displays the **User Permissions Split/Skill Access** window.



5. In the **User ID:** field, enter the name of the user who will be assigned split/skill permissions.

6. In the **Splits/Skills:** field, enter the name or number of the split/skill for which the user will have permissions assigned.

This field can accept multiple splits/skills. Multiple entries must be separated by a semicolon (;).

Multiple splits/skills can be entered by using a range, for example, **1–256**.

7. Place a check mark in the permissions that will be assigned to this user:

- **Read:** - User can view but not modify information for the specified splits/skills including reports.
- **Write:** - User can modify information on the specified splits/skills. This permission requires that the user also have the *read* permission.
- **Exceptions:** - User will receive notification of exceptions occurring on the specified splits/skills.

Only the split/skill exceptions made active through the **Exceptions** feature will provide notification to the user. See [Chapter 8: Administering exceptions](#) for more information.

8. After assigning the necessary permissions, select **Actions > Add** from the menu bar.

The split/skill permissions for this user are saved.

It is possible to add permission definitions for multiple splits/skills at one time. To do so, enter multiple splits/skills in the **Splits/Skills:** field and separate them with semicolons (;).

Viewing split/skill user permissions

This section provides the procedure for viewing the split/skill permissions definition for a *CMS* user.

Before you begin

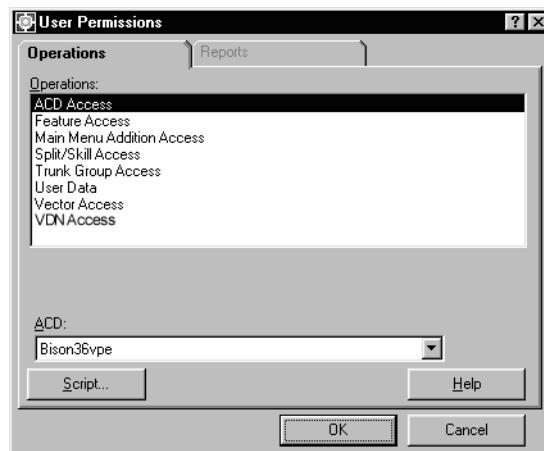
The following items should be read and understood before viewing split/skill permission definitions for *CMS* users:

- The wildcard characters * and ? cannot be used in the **User Permissions Split/Skill Access** window.

Steps

To view the split/skill permissions definition for a *CMS* user:

1. On the Controller window, select **Tools > User Permissions**.
Supervisor displays the **User Permissions** window.

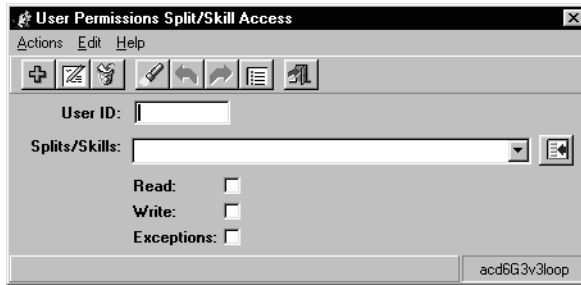


2. In the **Operations:** list, highlight **Split/Skill Access**.
3. In the **ACD:** field, select the ACD or ACD Group containing the split/skill for which the user has a permissions definition.

Administering user permissions

4. Select **OK**.

Supervisor displays the **User Permissions Split/Skill Access** window.



5. In the **User ID:** field, enter the name of the user for which the split/skill permissions definition is to be viewed.

6. If the specific split/skill to view for this user is known, enter the name or number of the split/skill in the **Splits/Skills:** field. To have all splits/skills returned for this user ID, leave this field blank.

This field can accept multiple splits/skills. Multiple entries must be separated by a semicolon (;).

7. From the menu bar, select **Actions > Find one**.

Supervisor queries the database and displays the number of matches found for this user ID in the status bar.

Listing all split/skill user permissions

This section provides the procedure for listing all of the user permission definitions for a split/skill.

Before you begin

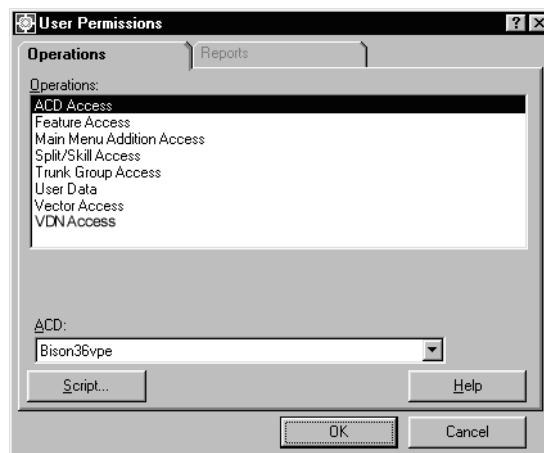
The following items should be read and understood before listing all split/skill permission definitions for *CMS* users:

- The wildcard characters * and ? cannot be used in the **User Permissions Split/Skill Access** window.

Steps

To list all user permission definitions for a split/skill:

1. On the Controller window, select **Tools > User Permissions**.
Supervisor displays the **User Permissions** window.

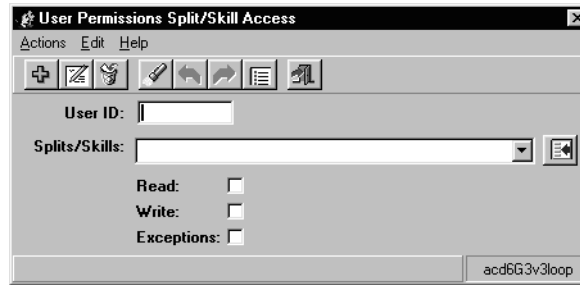


2. In the **Operations:** list, highlight **Split/Skill Access**.
3. In the **ACD:** field, select the ACD or ACD Group containing the split/skill for which all permission definitions will be shown.

Administering user permissions

4. Select **OK**.

Supervisor displays the **User Permissions Split/Skill Access** window.



5. From the menu bar, select **Actions > List all**.

Supervisor displays a secondary window listing all user permissions for splits/skills on the specified ACD.

A filter can be created when listing all user split/skill permission definitions. This filter is based on any information contained in the **User ID:** and **Splits/Skills:** fields on this dialog box when the **List all** action is performed.

For example, to view all of the user permission definitions for skill 26, enter **26** in the **Splits/Skills:** field before performing the **List all** action. This will cause only the user permission definitions for skill 26 to display. If more information is entered into the other fields of this dialog box, the results will be more restricted. If information for the user ID, splits/skills, and permissions are entered, the **List all** command will only return those permission definitions which match all of the information.

Modifying split/skill user permissions

This section provides the procedure for modifying the split/skill permissions definition for a *CMS* user.

Before you begin

The following items should be read and understood before modifying split/skill permissions:

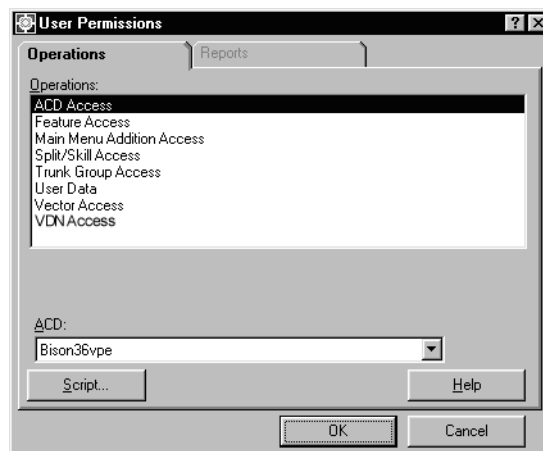
- When the permissions definition for a user is modified, the change does not take effect until the user logs off and back on again.
- If a user does not have corresponding ACD permissions for the permissions set for them on the split/skill, *Supervisor* displays an error message.
- The wildcard characters * and ? cannot be used in the **User Permissions Split/Skill Access** window.

Steps

To modify the split/skill permissions definition for a *CMS* user:

1. On the Controller window, select **Tools > User Permissions**.

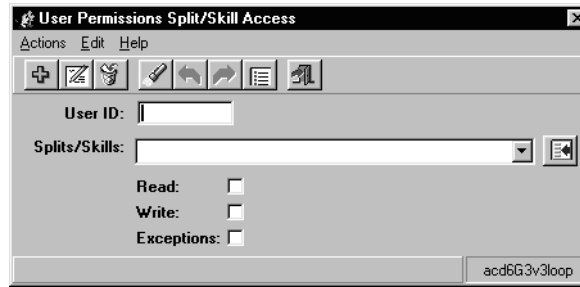
Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **Split/Skill Access**.
3. In the **ACD:** field, select the ACD or ACD Group containing the split/skill for which the user has a permissions definition.

4. Select **OK**.

Supervisor displays the **User Permissions Split/Skill Access** window.



5. In the **User ID:** field, enter the name of the user for which the split/skill permissions definition is to be modified.

6. If the specific split/skill to view for this user is known, enter the name or number of the split/skill in the **Splits/Skills:** field. For all splits/skills to be returned for this user ID, leave this field blank.

This field can accept multiple splits/skills. Multiple entries must be separated by a semicolon (;).

7. From the menu bar, select **Actions > Find one**.

Supervisor queries the database and displays the number of matches found for this user ID in the status bar.

If multiple matches are found, use the **Next** and **Previous** items found under the **Action** menu to navigate to the correct split/skill.

8. Change the permissions for the user on this split/skill as needed:

- **Read:** - User can view but not modify information for the specified splits/skills including reports.
- **Write:** - User can modify information on the specified splits/skills. This permission requires that the user also have the *read* permission.
- **Exceptions:** - User will receive notification of exceptions occurring on the specified splits/skills.

 Important:

If all permissions are to be removed for this user ID, it saves more server disk space to delete this permission definition rather than disabling all permissions. See [Deleting split/skill user permissions](#) on page 476 for more information.

Only the split/skill exceptions made active through the **Exceptions** feature will provide notification to the user. See [Chapter 8: Administering exceptions](#) for more information.

9. After the necessary permission changes have been completed, select **Actions** > **Modify** from the menu bar.

The permissions definition for this user ID and split/skill is updated. The status bar displays a **Successful** message.

Deleting split/skill user permissions

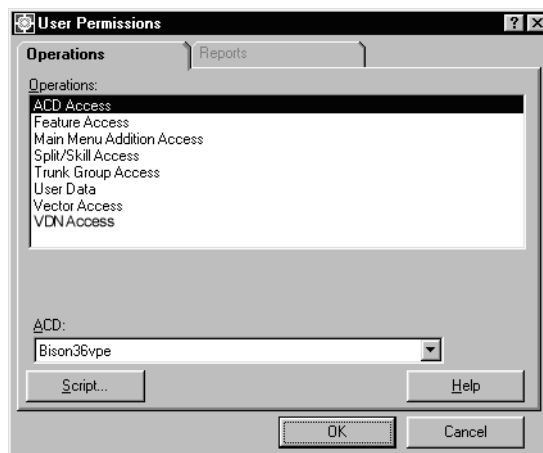
This section provides the procedure for deleting the split/skill permissions definition for a CMS user.

Steps

To delete the split/skill permissions definition for a CMS user:

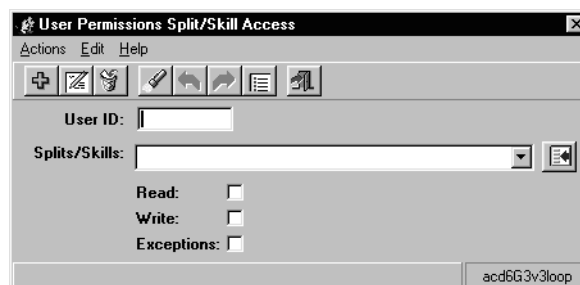
1. On the Controller window, select **Tools > User Permissions**.

Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **Split/Skill Access**.
3. In the **ACD:** field, select the ACD or ACD Group containing the split/skill for which the user has a permissions definition.
4. Select **OK**.

Supervisor displays the **User Permissions Split/Skill Access** window.



5. In the **User ID:** field, enter the name of the user for which the split/skill permissions definition is to be deleted.
6. If the specific split/skill to view for this user is known, enter the name or number of the split/skill in the **Splits/Skills:** field. To return all split/skills for this user ID, leave this field blank.

7. From the menu bar, select **Actions > Find one.**

Supervisor queries the database and displays the number of matches found for this user ID in the status bar.

If multiple matches are found, use the **Next** and **Previous** items found under the **Action** menu to navigate to the correct split/skill.

8. From the menu bar, select **Actions > Delete.**

Supervisor deletes the permissions definition for this user ID and the associated split/skill. The status bar displays a **Successful** message upon completion of the action.

This action does not delete the permission definitions for all splits/skills for this user, only the one displayed in the **Splits/Skills:** field.

Trunk group access

Trunk group permissions allow users to view data for trunk group reports, view trunk group configuration information, and change trunk group configurations. The **User Permissions Trunk Group Access** window is also used to configure which users receive exception notifications.

Contents

This section contains the following topics:

- [Adding trunk group user permissions](#) on page 481
- [Viewing trunk group user permissions](#) on page 483
- [Listing all trunk group user permissions](#) on page 485
- [Modifying trunk group user permissions](#) on page 487
- [Deleting trunk group user permissions](#) on page 490

Before you begin

The following items should be read and understood before working with trunk group permissions:

- A *CMS* user ID must be created through the **User Data** feature before it can be assigned trunk group permissions.
- When a new user ID is created through the **User Data** feature, trunk group permission definitions for that user are not created. This is done to conserve disk space. When a trunk group permissions definition does not exist for a user ID, *CMS* will deny *read* and *write* access to trunk groups.
- A user ID must first have permissions for the ACD on which the trunk group resides before trunk group permissions can be assigned. If a user ID is assigned trunk group permissions and does not have the appropriate ACD permissions, *Supervisor* displays an error message.
- A user ID cannot be assigned the *write* permission without first having the *read* permission.
- Assigning only those permissions that are necessary for each user ID ensures the best system performance.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view trunk group user permissions, the user ID used to log in to this *Supervisor* session requires *read* permission for the **User Permissions** subsystem.
- To add, delete, or modify trunk group user permissions, the user ID used to log in to this *Supervisor* session requires *write* permission for the **User Permissions** subsystem.

Adding trunk group user permissions

This section provides the procedure for adding a trunk group permissions definition for a *CMS* user.

Before you begin

The following items should be read and understood before adding a trunk group permissions definition for a *CMS* user:

- If a user does not have corresponding ACD permissions for the permissions set for them on the trunk group, *Supervisor* displays an error message.
- When the permissions definition for a user is created, the trunk group permissions do not take effect until the user logs off and back on again.

Steps

To add a trunk group permissions definition for a *CMS* user:

1. On the Controller window, select **Tools > User Permissions**.

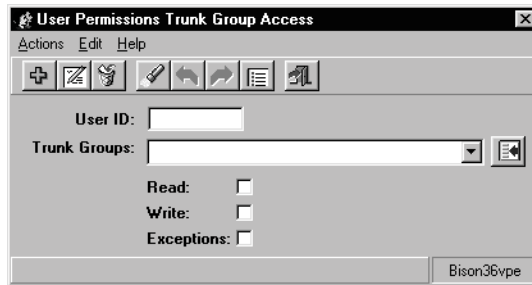
Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **Trunk Group Access**.
3. In the **ACD:** field, select the ACD containing the trunk group for which the user will be given permissions.

4. Select **OK**.

Supervisor displays the **User Permissions Trunk Group Access** window.



5. In the **User ID:** field, enter the name of the user who will be assigned trunk group permissions.

6. In the **Trunk Groups:** field, enter the name or number of the trunk group for which the user will have permissions assigned.

This field can accept multiple trunk groups. Multiple entries must be separated by a semicolon (;).

7. Place a check mark in the permissions that will be assigned to this user:

- **Read:** - User can view but not modify information for the specified trunk groups including reports.
- **Write:** - User can modify information on the specified trunk groups. This permission requires that the user also have the *read* permission.
- **Exceptions:** - User will receive notification of exceptions occurring on the specified trunk groups.

Only the trunk group exceptions made active through the **Exceptions** feature will provide notification to the user. See [Chapter 8: Administering exceptions](#) for more information.

8. After assigning the necessary permissions, select **Actions > Add** from the menu bar.

The trunk group permissions for this user are saved.

It is possible to add permission definitions for multiple trunk groups at one time. To do so, enter multiple trunk groups in the **Trunk Groups:** field and separate them with semicolons (;).

Viewing trunk group user permissions

This section provides the procedure for viewing the trunk group permissions definition for a *CMS* user.

Before you begin

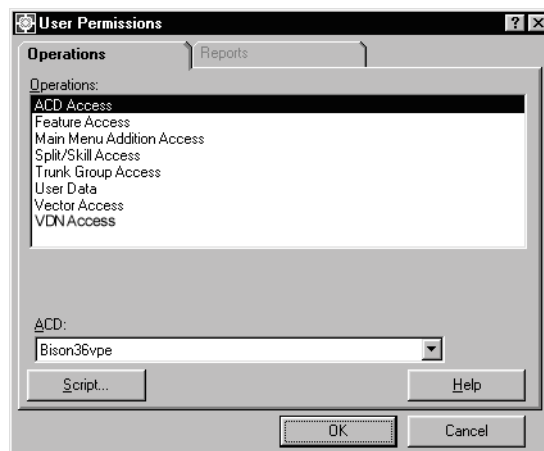
The following items should be read and understood before viewing trunk group permission definitions for *CMS* users:

- The wildcard characters * and ? cannot be used in the **User Permissions Trunk Group Access** window.

Steps

To view the trunk group permissions definition for a *CMS* user:

1. On the Controller window, select **Tools > User Permissions**.
Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **Trunk Group Access**.
3. In the **ACD:** field, select the ACD containing the trunk group for which the user has a permissions definition.

Administering user permissions

4. Select **OK**.

Supervisor displays the **User Permissions Trunk Group Access** window.



5. In the **User ID:** field, enter the name of the user for which the trunk group permissions definition is to be viewed.
6. If the specific trunk group to view for this user is known, enter the name or number of the trunk group in the **Trunk Groups:** field. To have all trunk groups returned for this user ID, leave this field blank.

This field can accept multiple trunk groups. Multiple entries must be separated by a semicolon (;).
7. From the menu bar, select **Actions > Find one**.

The database is queried and the number of matches found for this user ID displays in the status bar.

Listing all trunk group user permissions

This section provides the procedure for listing all of the user permission definitions for a trunk group.

Before you begin

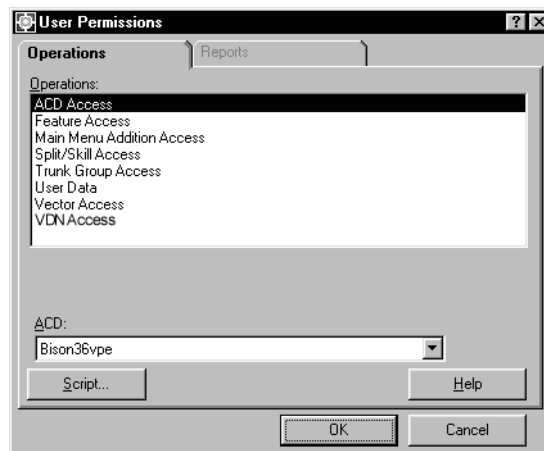
The following items should be read and understood before listing all trunk group permission definitions for *CMS* users:

- The wildcard characters * and ? cannot be used in the **User Permissions Trunk Group Access** window.

Steps

To list all user permission definitions for a trunk group:

1. On the Controller window, select **Tools > User Permissions**.
Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **Trunk Group Access**.
3. In the **ACD:** field, select the ACD containing the trunk group for which all permission definitions will be shown.

4. Select **OK**.

Supervisor displays the **User Permissions Trunk Group Access** window.



5. From the menu bar, select **Actions > List all**.

Supervisor displays a secondary window listing all user permissions for trunk groups on the specified ACD.

A filter can be created when listing all user trunk group permission definitions. This filter is based on any information contained in the **User ID:** and **Trunk Groups:** fields on this dialog box when the **List all** action is performed.

For example, to view all of the user permission definitions for trunk group 4, enter **4** in the **Trunk Groups:** field before performing the List all action. This will cause only the user permission definitions for trunk group 4 to display. If more information is entered into the other fields of this dialog box, the results will be more restricted. If information for the user ID, trunk groups, and permissions are entered, the **List all** command will only return those permission definitions which match all of the information.

Modifying trunk group user permissions

This section provides the procedure for modifying the trunk group permissions definition for a *CMS* user.

Before you begin

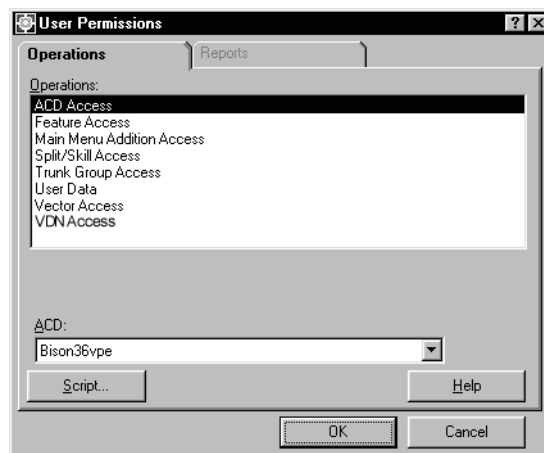
The following items should be read and understood before modifying trunk group permissions:

- When the permissions definition for a user is modified, the change does not take effect until the user logs off and back on again.
- If a user does not have corresponding ACD permissions for the permissions set for them on the trunk group, *Supervisor* displays an error message.
- The wildcard characters * and ? cannot be used in the **User Permissions Trunk Group Access** window.

Steps

To modify the trunk group permissions definition for a *CMS* user:

1. On the Controller window, select **Tools > User Permissions**.
Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **Trunk Group Access**.
3. In the **ACD:** field, select the ACD containing the trunk group for which the user has a permissions definition.

4. Select **OK**.

Supervisor displays the **User Permissions Trunk Group Access** window.



5. In the **User ID:** field, enter the name of the user for which the trunk group permissions definition is to be modified.

6. If the specific trunk group to view for this user is known, enter the name or number of the trunk group in the **Trunk Groups:** field. To have all trunk groups returned for this user ID, leave this field blank.

This field can accept multiple trunk groups. Multiple entries must be separated by a semicolon (;).

7. From the menu bar, select **Actions > Find one**.

The database is queried and the number of matches found for this user ID displays in the status bar. The first match found populates the fields of this dialog box.

If multiple matches are found, use the **Next** and **Previous** items found under the **Action** menu to navigate to the correct trunk group.

8. Change the permissions for the user on this trunk group as needed:

- **Read:** - User can view but not modify information for the specified trunk groups including reports.
- **Write:** - User can modify information on the specified trunk groups. This permission requires that the user also have the *read* permission.
- **Exceptions:** - User will receive notification of exceptions occurring on the specified trunk groups.

 Important:

If all permissions are to be removed for this user ID, it saves more server disk space to delete this permission definition rather than disabling all permissions.

Only the trunk group exceptions made active through the **Exceptions** feature will provide notification to the user. See [Chapter 8: Administering exceptions](#) for more information.

9. After the necessary permission changes have been completed, select **Actions** > **Modify** from the menu bar.

The permissions definition for this user ID and trunk group is updated. The status bar displays a **Successful** message upon completion.

Deleting trunk group user permissions

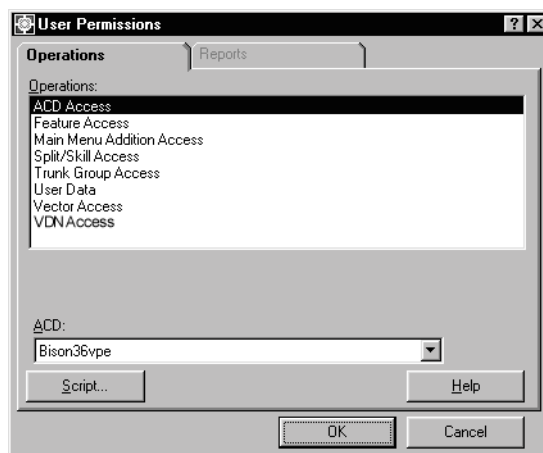
This section provides the procedure for deleting the trunk group permissions definition for a CMS user.

Steps

To delete the trunk group permissions definition for a CMS user:

1. On the Controller window, select **Tools > User Permissions**.

Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **Trunk Group Access**.
3. In the **ACD:** field, select the ACD containing the trunk group for which the user has a permissions definition.
4. Select **OK**.

Supervisor displays the **User Permissions Trunk Group Access** window.



5. In the **User ID:** field, enter the name of the user for which the trunk group permissions definition is to be deleted.

6. If the specific trunk group to view for this user is known, enter the name or number of the trunk group in the **Trunk Groups:** field. To return all trunk groups for this user ID, leave this field blank.

7. From the menu bar, select **Actions > Find one**.

The database is queried and the number of matches found for this user ID displays in the status bar. The first match found populates the fields of this dialog box.

If multiple matches are found, use the **Next** and **Previous** items found under the **Action** menu to navigate to the correct trunk group.

8. From the menu bar, select **Actions > Delete**.

The permissions definition for this user ID and the associated trunk group is deleted. The status bar displays a **Successful** message upon completion of the action.

This action does not delete the permission definitions for all trunk groups for this user, only the one displayed in the **Trunk Groups:** field.

Vector access

Vector permissions allow users to view data for vector reports, view vector configuration information, and change vector configurations. The **User Permissions Vector Access** window is also used to configure which users receive exception notifications.

This feature is not available if the *Vectoring* product has not been purchased and installed.

Contents

This section contains the following topics:

- [Adding vector user permissions](#) on page 495
- [Viewing vector user permissions](#) on page 497
- [Listing all vector user permissions](#) on page 499
- [Modifying vector user permissions](#) on page 501
- [Deleting vector user permissions](#) on page 504

Before you begin

The following items should be read and understood before working with vector permissions:

- A *CMS* user ID must be created through the **User Data** feature before it can be assigned vector permissions.
- When a new user ID is created through the **User Data** feature, vector permission definitions for that user are not created. This is done to conserve disk space. When a vector permissions definition does not exist for a user ID, *CMS* will deny *read* and *write* access to vectors.
- A user ID must first have permissions for the ACD on which the vector resides before vector permissions can be assigned. If a user ID is assigned vector permissions and does not have the appropriate ACD permissions, *Supervisor* displays an error message.
- A user ID cannot be assigned the *write* permission without first having the *read* permission.

Administering user permissions

- Assigning only those permissions that are necessary for each user ID ensures the best system performance.
- A user must be given the *exceptions* permission in order to be notified of vector exceptions that occur.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view vector user permissions, the user ID used to log in to this *Supervisor* session requires *read* permission for the **User Permissions** subsystem.
- To add, delete, or modify vector user permissions, the user ID used to log in to this *Supervisor* session requires *write* permission for the **User Permissions** subsystem.

Adding vector user permissions

This section provides the procedure for adding a vector permissions definition for a *CMS* user.

Before you begin

The following items should be read and understood before adding a vector permissions definition for a *CMS* user:

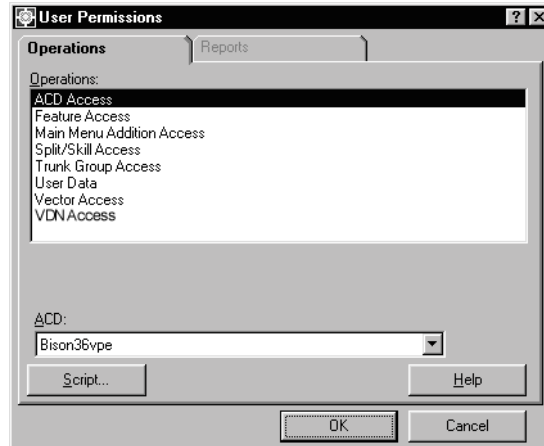
- If a user does not have corresponding ACD permissions for the permissions set for them on the vector, *Supervisor* displays an error message.
- When the permissions definition for a user is created, the vector permissions do not take effect until the user logs off and back on again.

Steps

To add a vector permissions definition for a *CMS* user:

1. On the Controller window, select **Tools > User Permissions**.

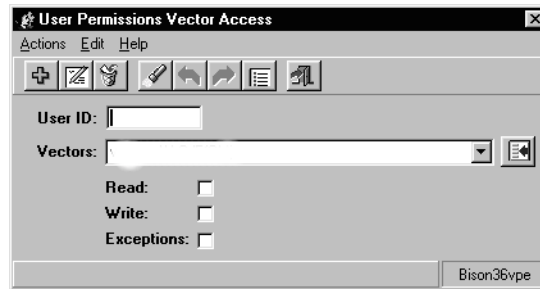
Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **Vector Access**.
3. In the **ACD:** field, select the ACD containing the vector for which the user will be given permissions.

4. Select **OK**.

Supervisor displays the **User Permissions Vector Access** window.



5. In the **User ID:** field, enter the name of the user who will be assigned vector permissions.

6. In the **Vectors:** field, enter the name or number of the vector for which the user will have permissions assigned.

This field can accept multiple vectors. Multiple entries must be separated by a semicolon (;).

7. Place a check mark in the permissions that will be assigned to this user:

- **Read:** - User can view but not modify information for the specified vectors including reports.
- **Write:** - User can modify information on the specified vectors. This permission requires that the user also have the *read* permission.
- **Exceptions:** - User will receive notification of exceptions occurring on the specified vectors.

Only the vector exceptions made active through the **Exceptions** feature will provide notification to the user. See [Chapter 8: Administering exceptions](#) for more information.

8. After assigning the necessary permissions, select **Actions > Add** from the menu bar.

The vector permissions for this user are saved.

It is possible to add permission definitions for multiple vectors at one time. To do so, enter multiple vectors in the **Vectors:** field and separate them with semicolons (;).

Viewing vector user permissions

This section provides the procedure for viewing the vector permissions definition for a *CMS* user.

Before you begin

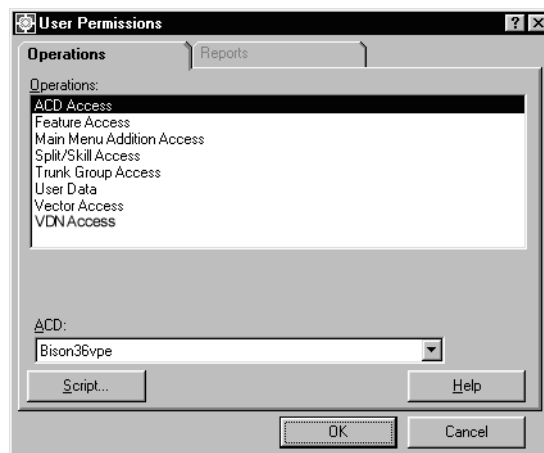
The following items should be read and understood before viewing vector permission definitions for *CMS* users:

- The wildcard characters * and ? cannot be used in the **User Permissions Vector Access** window.

Steps

To view the vector permissions definition for a *CMS* user:

1. On the Controller window, select **Tools > User Permissions**.
Supervisor displays the **User Permissions** window.

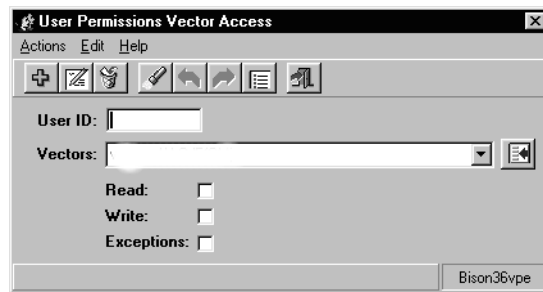


2. In the **Operations:** list, highlight **Trunk Group Access**.
3. In the **ACD:** field, select the ACD containing the vector for which the user has a permissions definition.

Administering user permissions

4. Select **OK**.

Supervisor displays the **User Permissions Vector Access** window.



5. In the **User ID:** field, enter the name of the user for which the vector permissions definition is to be viewed.
6. If the specific vector to view for this user is known, enter the name or number of the vector in the **Vectors:** field. To have all vectors returned for this user ID, leave this field blank.

This field can accept multiple vectors. Multiple entries must be separated by a semicolon (;).

7. From the menu bar, select **Actions > Find one**.

The database is queried and the number of matches found for this user ID displays in the status bar.

Listing all vector user permissions

This section provides the procedure for listing all of the user permission definitions for a vector.

Before you begin

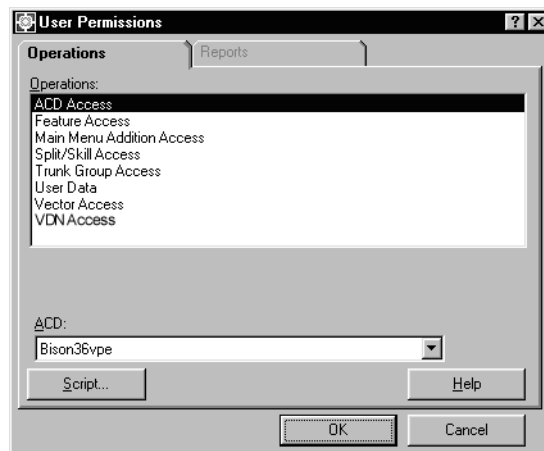
The following items should be read and understood before listing all vector permission definitions for *CMS* users:

- The wildcard characters * and ? cannot be used in the **User Permissions Vector Access** window.

Steps

To list all user permission definitions for a vector:

1. On the Controller window, select **Tools > User Permissions**.
Supervisor displays the **User Permissions** window.

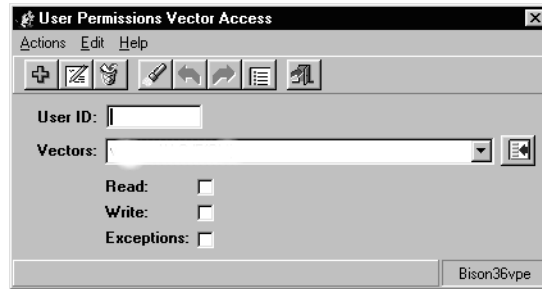


2. In the **Operations:** list, highlight **Vector Access**.
3. In the **ACD:** field, select the ACD containing the vector for which all permission definitions will be shown.

Administering user permissions

4. Select **OK**.

Supervisor displays the **User Permissions Vector Access** window.



5. From the menu bar, select **Actions > List all**.

Supervisor displays a secondary window listing all user permissions for vectors on the specified ACD.

A filter can be created when listing all user vector permission definitions. This filter is based on any information contained in the fields on this dialog box when the **List all** action is performed.

For example, to view all of the user permission definitions for vector 1, enter **1** in the **Vectors:** field before performing the **List all** action. This will cause only the user permission definitions for vector 1 to display. If more information is entered into the other fields of this dialog box, the results will be more restricted. If information for the user ID, vectors, and permissions are entered, the **List all** command will only return those permission definitions which match all of the information.

Modifying vector user permissions

This section provides the procedure for modifying the vector permissions definition for a *CMS* user.

Before you begin

The following items should be read and understood before modifying vector permissions:

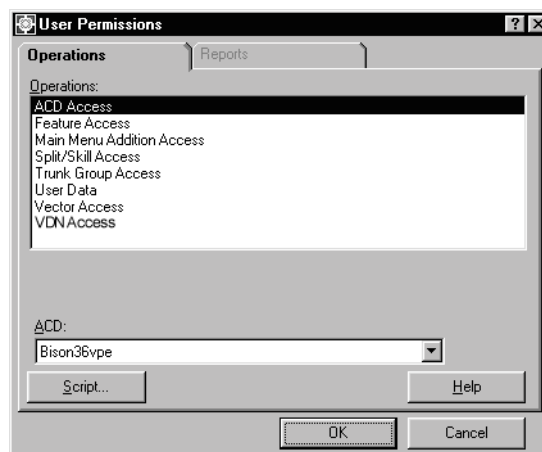
- When the permissions definition for a user is modified, the change does not take effect until the user logs off and back on again.
- If a user does not have corresponding ACD permissions for the permissions set for them on the vector, *Supervisor* displays an error message.
- The wildcard characters * and ? cannot be used in the **User Permissions Vector Access** window.

Steps

To modify the vector permissions definition for a *CMS* user:

1. On the Controller window, select **Tools > User Permissions**.

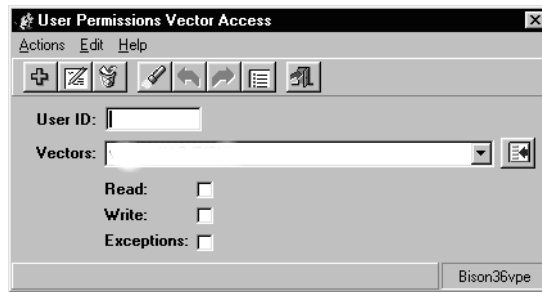
Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **Vector Access**.
3. In the **ACD:** field, select the ACD containing the vector for which the user has a permissions definition.

4. Select **OK**.

Supervisor displays the **User Permissions Vector Access** window.



5. In the **User ID:** field, enter the name of the user for which the vector permissions definition is to be modified.
6. If the specific vector to view for this user is known, enter the name or number of the vector in the **Vectors:** field. To have all vectors returned for this user ID, leave this field blank.

This field can accept multiple vectors. Multiple entries must be separated by a semicolon (;).

7. From the menu bar, select **Actions > Find one**.

The database is queried and the number of matches found for this user ID displays in the status bar. The first match found populates the fields of this dialog box.

If multiple matches are found, use the **Next** and **Previous** items found under the **Action** menu to navigate to the correct vector.

8. Change the permissions for the user on this vector as needed:

- **Read:** - User can view but not modify information for the specified vectors including reports.
- **Write:** - User can modify information on the specified vectors. This permission requires that the user also have the *read* permission.
- **Exceptions:** - User will receive notification of exceptions occurring on the specified vectors.

 Important:

If all permissions are to be removed for this user ID, it saves more server disk space to delete this permission definition rather than disabling all permissions.

Only the vector exceptions made active through the **Exceptions** feature will provide notification to the user. See [Chapter 8: Administering exceptions](#) for more information.

9. After the necessary permission changes have been completed, select **Actions** > **Modify** from the menu bar.

The permissions definition for this user ID and vector is updated. The status bar displays a **Successful** message upon completion.

Deleting vector user permissions

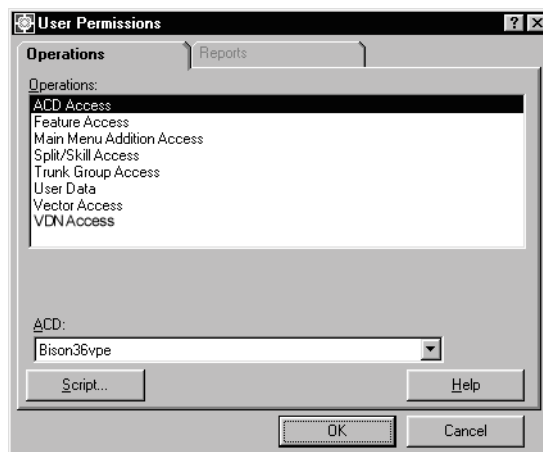
This section provides the procedure for deleting the vector permissions definition for a CMS user.

Steps

To delete the vector permissions definition for a CMS user:

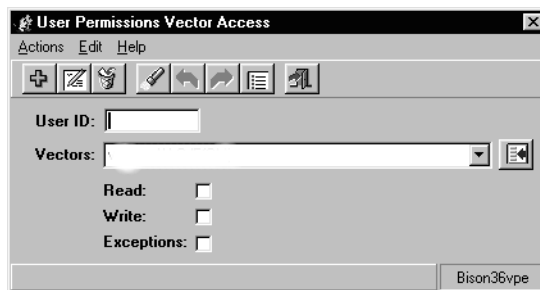
1. On the Controller window, select **Tools > User Permissions**.

Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **Vector Access**.
3. In the **ACD:** field, select the ACD containing the vector for which the user has a permissions definition.
4. Select **OK**.

Supervisor displays the **User Permissions Vector Access** window.



5. In the **User ID:** field, enter the name of the user for which the vector permissions definition is to be deleted.

6. If the specific vector to view for this user is known, enter the name or number of the vector in the **Vectors:** field. To return all vectors for this user ID, leave this field blank.
7. From the menu bar, select **Actions > Find one**.

The database is queried and the number of matches found for this user ID displays in the status bar. The first match found populates the fields of this dialog box.

If multiple matches are found, use the **Next** and **Previous** items found under the **Action** menu to navigate to the correct vector.

8. From the menu bar, select **Actions > Delete**.

The permissions definition for this user ID and the associated vector is deleted. The status bar displays a successful message upon completion of the action.

This action does not delete the permission definitions for all vectors for this user, only the one displayed in the **Vectors:** field.

VDN access

Vector Directory Number (VDN) permissions allow users to view data for VDN reports, view VDN configuration information, and change VDN configurations. The **User Permissions VDN Access** window is also used to configure which users receive exception notifications.

This feature is not available if the Vectoring product has not been purchased, installed, and enabled on the corresponding ACD.

Contents

This section contains the following topics:

- [Adding VDN user permissions](#) on page 509
- [Viewing VDN user permissions](#) on page 511
- [Listing all vector user permissions](#) on page 499
- [Modifying vector user permissions](#) on page 501
- [Deleting VDN user permissions](#) on page 518

Before you begin

The following items should be read and understood before working with VDN permissions:

- A *CMS* user ID must be created through the **User Data** feature before it can be assigned VDN permissions.
- When a new user ID is created through the **User Data** feature, VDN permission definitions for that user are not created. This is done to conserve disk space. When a VDN permissions definition does not exist for a user ID, *CMS* denies *read* and *write* access to VDNs.
- A user ID must first have permissions for the ACD on which the VDN resides before VDN permissions can be assigned. If a user ID is assigned VDN permissions and does not have the appropriate ACD permissions, *Supervisor* an error message.
- A user ID cannot be assigned the *write* permission without first having the *read* permission.

Administering user permissions

- Assigning only those permissions that are necessary for each user ID ensures the best system performance.
- A user must be given the *exceptions* permission in order to be notified of VDN exceptions that occur.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view VDN user permissions, the user ID used to log in to this *Supervisor* session requires *read* permission for the **User Permissions** subsystem.
- To add, delete, or modify VDN user permissions, the user ID used to log in to this *Supervisor* session requires *write* permission for the **User Permissions** subsystem.

Adding VDN user permissions

This section provides the procedure for adding a VDN permissions definition for a *CMS* user.

Before you begin

The following items should be read and understood before adding a VDN permissions definition for a *CMS* user:

- If a user does not have corresponding ACD permissions for the permissions set for them on the VDN, *Supervisor* displays an error message.
- When the permissions definition for a user is created, the VDN permissions do not take effect until the user logs off and back on again.

Steps

To add a VDN permissions definition for a *CMS* user:

1. On the Controller window, select **Tools > User Permissions**.

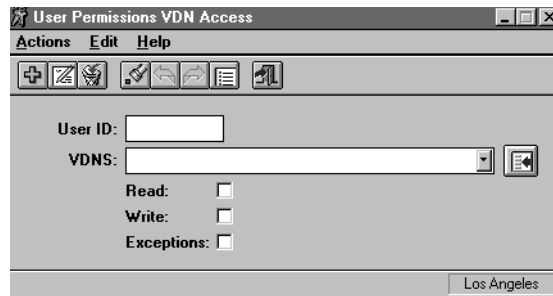
Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **VDN Access**.
3. In the **ACD:** field, select the ACD containing the VDN for which the user will be given permissions.

4. Select **OK**.

Supervisor displays the **User Permissions VDN Access** window.



5. In the **User ID:** field, enter the name of the user who will be assigned VDN permissions.
6. In the **VDNs:** field, enter the name or number of the VDN for which the user will have permissions assigned.

This field can accept multiple VDNs. Multiple entries must be separated by a semicolon (;).

7. Place a check mark in the permissions that will be assigned to this user:
 - **Read:** - User can view but not modify information for the specified VDNs including reports.
 - **Write:** - User can modify information on the specified VDNs. This permission requires that the user also have the *read* permission.
 - **Exceptions:** - User will receive notification of exceptions occurring on the specified VDNs.

Only the VDN exceptions made active through the **Exceptions** feature will provide notification to the user. See [Chapter 8: Administering exceptions](#) for more information.

8. After assigning the necessary permissions, select **Actions > Add** from the menu bar.
The VDN permissions for this user are saved.

It is possible to add permission definitions for multiple VDNs at one time. To do so, enter multiple VDNs in the **VDNs:** field and separate them with semicolons (;).

Viewing VDN user permissions

This section provides the procedure for viewing the VDN permissions definition for a *CMS* user.

Before you begin

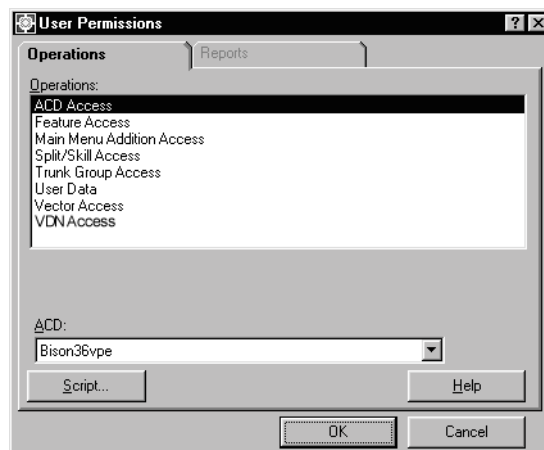
The following items should be read and understood before viewing VDN permission definitions for *CMS* users:

- The wildcard characters * and ? cannot be used in the **User Permissions VDN Access** window.

Steps

To view the VDN permissions definition for a *CMS* user:

1. On the Controller window, select **Tools > User Permissions**.
Supervisor displays the **User Permissions** window.

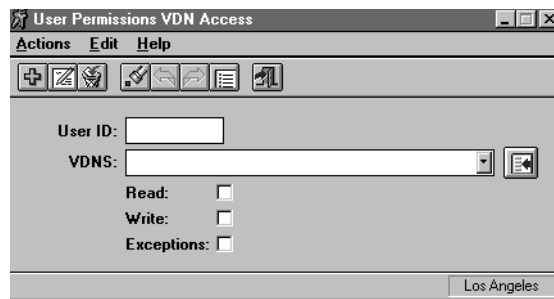


2. In the **Operations:** list, highlight **Trunk Group Access**.
3. In the **ACD:** field, select the ACD containing the VDN for which the user has a permissions definition.

Administering user permissions

4. Select **OK**.

Supervisor displays the **User Permissions VDN Access** window.



5. In the **User ID:** field, enter the name of the user for which the VDN permissions definition is to be viewed.
6. If the specific VDN to view for this user is known, enter the name or number of the VDN in the **VDNs:** field. To have all VDNs returned for this user ID, leave this field blank.

This field can accept multiple VDNs. Multiple entries must be separated by a semicolon (;).
7. From the menu bar, select **Actions > Find one**.

The database is queried and the number of matches found for this user ID is displayed in the status bar.

Listing all VDN user permissions

This section provides the procedure for listing all of the user permission definitions for a VDN.

Before you begin

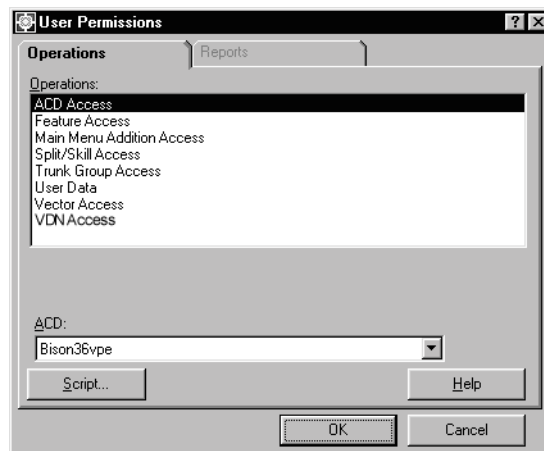
The following items should be read and understood before listing all VDN permission definitions for *CMS* users:

- The wildcard characters * and ? cannot be used in the **User Permissions VDN Access** window.

Steps

To list all user permission definitions for a VDN:

1. On the Controller window, select **Tools > User Permissions**.
Supervisor displays the **User Permissions** window.

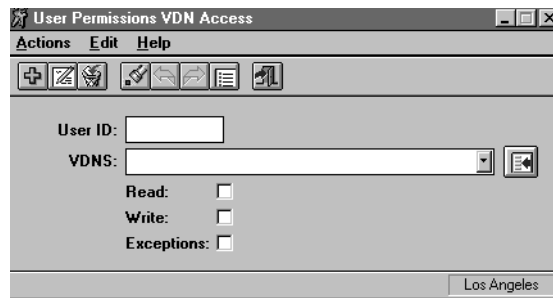


2. In the **Operations:** list, highlight **VDN Access**.
3. In the **ACD:** field, select the ACD containing the VDN for which all permission definitions will be shown.

Administering user permissions

4. Select **OK**.

Supervisor displays the **User Permissions VDN Access** window.



5. From the menu bar, select **Actions > List all**.

Supervisor displays a secondary window listing all user permissions for VDNs on the specified ACD.

A filter can be created when listing all user VDN permission definitions. This filter is based on any information contained in the **User ID:** and **VDNs:** fields on this dialog box when the **List all** action is performed.

For example, to view all of the user permission definitions for VDN 10, enter **10** in the **VDNs:** field before performing the **List all** action. This will cause only the user permission definitions for VDN 10 to display. If more information is entered into the other fields of this dialog box, the results will be more restricted. If information for the user ID, VDNs, and permissions are entered, the **List all** command will only return those permission definitions which match all of the information.

Modifying VDN user permissions

This section provides the procedure for modifying the VDN permissions definition for a *CMS* user.

This feature is available if the following items are true:

- The Vectoring feature has been purchased and installed.
- VDN permission checking is enabled.

Before you begin

The following items should be read and understood before modifying VDN permissions:

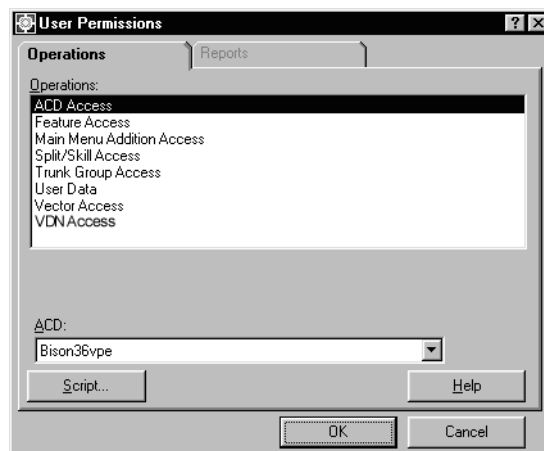
- When the permissions definition for a user is modified, the change does not take effect until the user logs off and back on again.
- If a user does not have corresponding ACD permissions for the permissions set for them on the VDN, *Supervisor* displays an error message.
- The wildcard characters * and ? cannot be used in the **User Permissions VDN Access** window.

Steps

To modify the VDN permissions definition for a *CMS* user:

1. On the Controller window, select **Tools > User Permissions**.

Supervisor displays the **User Permissions** window.

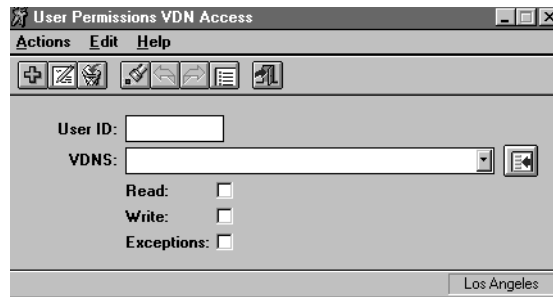


2. In the **Operations:** list, highlight **VDN Access**.

Administering user permissions

3. In the **ACD:** field, select the ACD containing the VDN for which the user has a permissions definition.
4. Select **OK**.

Supervisor displays the **User Permissions VDN Access** window.



5. In the **User ID:** field, enter the name of the user for which the VDN permissions definition is to be modified.
6. If the specific VDN to view for this user is known, enter the name or number of the VDN in the **VDNs:** field. To have all VDNs returned for this user ID, leave this field blank.
This field can accept multiple VDNs. Multiple entries must be separated by a semicolon (;).

7. From the menu bar, select **Actions > Find one**.

The database is queried and the number of matches found for this user ID displays in the status bar. The first match found populates the fields of this dialog box.

If multiple matches are found, use the **Next** and **Previous** items found under the **Action** menu to navigate to the correct VDN.

8. Change the permissions for the user on this VDN as needed:

- **Read:** - User can view but not modify information for the specified VDNs including reports.
- **Write:** - User can modify information on the specified VDNs. This permission requires that the user also have the *read* permission.
- **Exceptions:** - User will receive notification of exceptions occurring on the specified VDNs.

Important:

If all permissions are to be removed for this user ID, it saves more server disk space to delete this permission definition rather than disabling all permissions.

Only the VDN exceptions made active through the **Exceptions** feature will provide notification to the user. See [Chapter 8: Administering exceptions](#) for more information.

9. After the necessary permission changes have been completed, select **Actions** > **Modify** from the menu bar.

The permissions definition for this user ID and VDN is updated. The status bar displays a **Successful** message upon completion.

Deleting VDN user permissions

This section provides the procedure for deleting the VDN permissions definition for a *CMS* user.

Steps

To delete the VDN permissions definition for a *CMS* user:

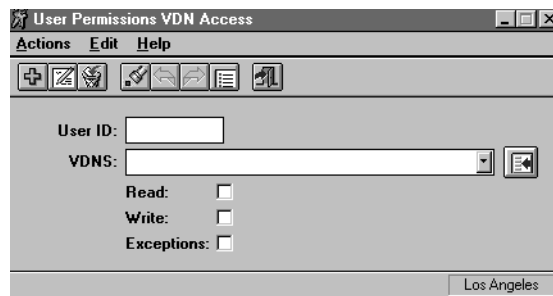
1. On the Controller window, select **Tools > User Permissions**.

Supervisor displays the **User Permissions** window.



2. In the **Operations:** list, highlight **VDN Access**.
3. In the **ACD:** field, select the ACD containing the VDN for which the user has a permissions definition.
4. Select **OK**.

Supervisor displays the **User Permissions VDN Access** window.



5. In the **User ID:** field, enter the name of the user for which the VDN permissions definition is to be deleted.

6. If the specific VDN to view for this user is known, enter the name or number of the VDN in the **VDNs:** field. To return all VDNs for this user ID, leave this field blank.
7. From the menu bar, select **Actions > Find one**.

The database is queried and the number of matches found for this user ID displays in the status bar. The first match found populates the fields of this dialog box.

If multiple matches are found, use the **Next** and **Previous** items found under the **Action** menu to navigate to the correct VDN.

8. From the menu bar, select **Actions > Delete**.

The permissions definition for this user ID and the associated VDN is deleted. The status bar displays a **Successful** message upon completion of the action.

This action does not delete the permission definitions for all VDN for this user, only the one displayed in the **VDNs:** field.

Chapter 10: Configuring CMS system settings

This section provides procedures on viewing and changing the setup of the *CMS* system configured during the initial installation. These configuration values are used in adjusting the state of the system and the collection, storage, and retrieval of data. Making changes to these configuration settings can affect system performance, disk space usage, and data collection.

Contents

This section contains the following topics:

- [CMS state](#) on page 523
- [Data collection](#) on page 529
- [Data Storage Allocation](#) on page 533
- [Data summarizing](#) on page 543
- [External Application Status](#) on page 547
- [Free Space Allocation](#) on page 555
- [Migrating CMS data](#) on page 563
- [Pseudo-ACDs](#) on page 569
- [Storage intervals](#) on page 579
- [Switch setup](#) on page 589

Before you begin

If an ACD Group is selected as the current ACD in the **System Setup** window, only those operations that are valid for the ACD Group will appear in the **Operations:** list.

CMS state

CMS can run in two operational states:

- Multi-user mode - Any defined user can log on to *CMS*.
- Single-user mode - Only one user can be logged on to the *CMS* server at a time.

The single-user mode is necessary when changes must be made to the following systems and procedures:

- Change Master ACD
- Data storage allocation
- Storage intervals
- Restore specific types of data
- Migrate specific types of data

The **CMS State** window can be used to select which ACD serves as the master for time synchronization. The time displayed on the Controller window originates from the master ACD.

Contents

This section contains the following topics:

- [Changing the CMS state](#) on page 525
- [Changing the master ACD](#) on page 527

Before you begin

The following items should be read and understood before changing the *CMS* state:

- *Viewing* data in the **Data Storage Allocation**, **Storage Intervals**, and **Restore Data** windows can be done through both the multi-user and single-user modes.
- To add to or modify configuration settings for the **Data Storage Allocation**, **Storage Intervals**, or **Restore Data** windows requires that the *CMS* state is set to single-user mode.
- If a log out is performed while *CMS* is still in the single-user state, at least ten seconds must pass before a logon can be performed.
- When in single-user mode, *CMS* continues to collect data for all ACDs with the data collection feature enabled.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view the *CMS* state or the master ACD, the user ID used to log on to this *Supervisor* session requires *read* permission for the **CMS System Setup** feature.
- To modify the *CMS* state or the master ACD, the user ID used to log on to this *Supervisor* session requires *write* permission for the **CMS System Setup** feature.

Changing the CMS state

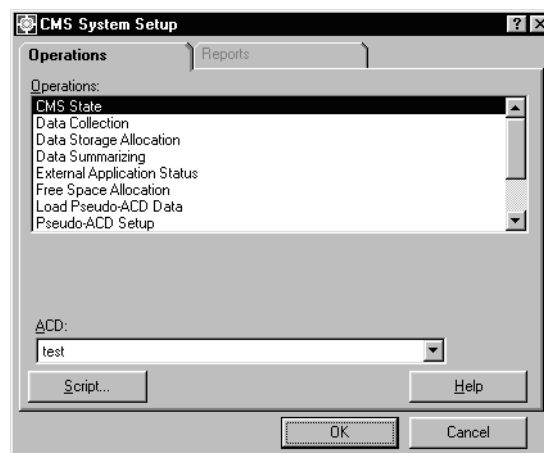
This section provides the procedure for changing the state of the *CMS* system to single-user or multi-user mode.

Steps

To change the current *CMS* state:

1. From the Controller window, select **Tools > System Setup....**

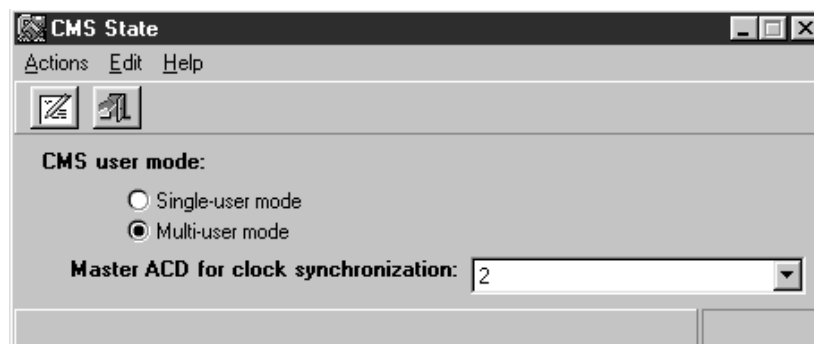
Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **CMS State**.

3. Select **OK**.

Supervisor displays the **CMS State** window.



Configuring CMS system settings

4. Under **CMS user mode:**, select one of the following options:

- **Single-user mode** - Specifies that the CMS state is being set to single-user mode. When *CMS* is set to single-user mode, a message box displays to all users indicating that *CMS* will be brought down in one minute. Users are automatically logged off after one minute.
- **Multi-user mode** - Specifies that the CMS state is being set to allow multiple users to log on to *CMS*

5. After selecting the *CMS* user mode, select **Actions > Modify** from the menu bar.

If the *CMS* user mode is set to single-user, all *CMS* users are notified to log off. If the *CMS* user mode is set to multi-user, *CMS* users can again log on to the system.

Changing the master ACD

This section provides the procedure for selecting the master ACD which will be used for time synchronization.

Steps

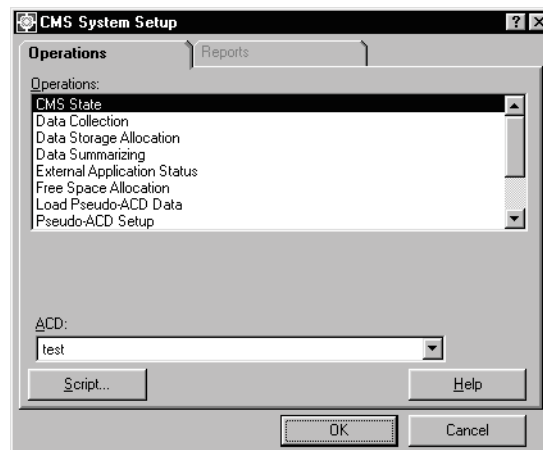
Important:

Changing the master ACD requires that you turn data collection off.

To select the ACD which will serve as the master for time synchronization:

1. From the Controller window, select **Tools > System Setup....**

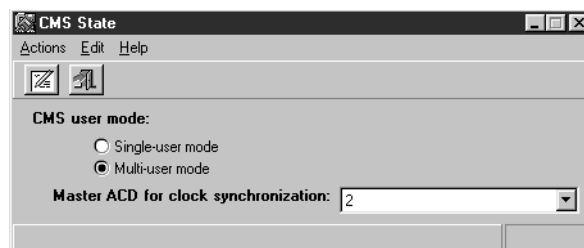
Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **CMS State**.

3. Select **OK**.

Supervisor displays the **CMS State** window.



Configuring CMS system settings

4. In the **Master ACD for clock synchronization:** field, select the ACD that will serve as the master for the synchronization of time for *CMS*.
5. After selecting the master ACD, select **Actions > Modify** from the menu bar.
The selected ACD is set as the master for time synchronization and the status bar displays a **Successful** message.

Data collection

The **Data Collection** window is used to enable and disable the storing of data for real ACDs. When data collection is disabled, no contact center data is recorded during the current interval. Also, reports run to include this time period will not accurately reflect the activities in the contact center.

Contents

This section contains the following topic:

- [Changing the data collection state](#) on page 531

Before you begin

The following items should be read and understood before working with the data collection feature:

- When data collection is enabled, the connection status of the link should be monitored to ensure data is being transferred. Use the **Connection Status** feature in the **Maintenance** subsystem to view this information.
- The data collection feature does not apply for pseudo-ACDs as they do not collect data.
- When changing the data collection status, each ACD must be administered separately.
- Data collection must be disabled when making changes to the following features:
 - Data Storage Allocation
 - Storage Intervals
 - Change Master ACD
 - Restore specific types of data
 - Migrate specific types of data

Viewing data through the features listed above can be done with data collection enabled.

- Data collection must be enabled for the current ACD in order to activate an agent trace or do any switch administration from *CMS*.
- When data collection is disabled, no new data is collected. If calls are in the system, the data they generate is not recorded in *CMS*. If data collection is to be disabled, it is best to wait for the current interval to be archived so that data loss is minimized.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view **Data Collection** settings, the user ID used to log on to this *Supervisor* session requires *read* permission for the **CMS System Setup** feature.
- To modify the **Data Collection** settings, the user ID used to log on to this *Supervisor* session requires *write* permission for the **CMS System Setup** feature.

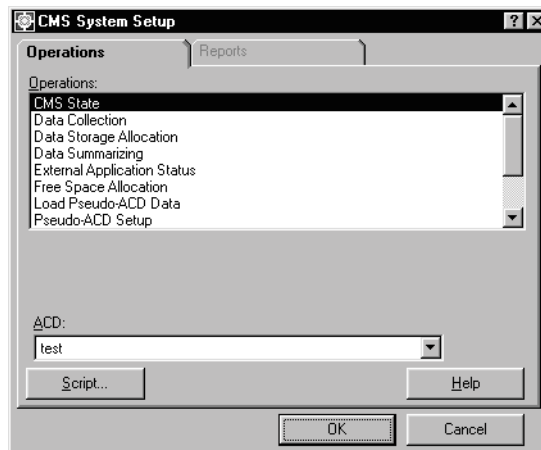
Changing the data collection state

This section provides the procedure for enabling or disabling data collection for an ACD.

Steps

1. On the Controller window, select **Tools > System Setup....**

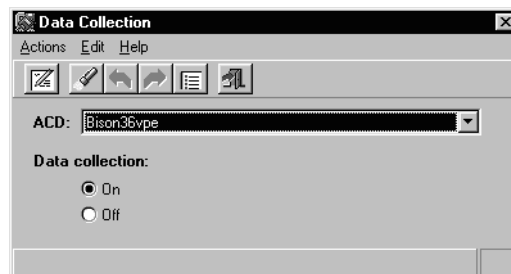
Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **Data Collection**.

3. Select **OK**.

Supervisor displays the **Data Collection** window.



4. In the **ACD:** field, select the ACD which will have data collection turned on or off.

5. Under **Data collection:**, select one of the following options:

- **On:** - Enables data collection for the selected ACD.
- **Off:** - Disables data collection for the selected ACD.

Data Storage Allocation

The **Data Storage Allocation** window is used to specify the amount of historical data saved by *CMS* and the duration for which it is saved. The amount of data saved and the duration for which it is saved affects disk space on the server and is limited by the configuration of the system. Data storage parameters are initially set during installation.

Contents

This section contains the following topics:

- [Viewing Data Storage Allocation](#) on page 535
- [Modifying Data Storage Allocation](#) on page 537

Before you begin

The following items should be read and understood before working with **Data Storage Allocation**:

- A full maintenance backup should be performed before changing the **Data Storage Allocation** configuration.
- If changes to the MultiVantage system are made through the **swsetup** command on the *CMS* console, the settings for **Data Storage Allocation** should be checked to ensure that storage is set for any new or modified entities. For example, enable the Call Vectoring feature requires data storage space for VDNs and vectors. Changing the release of the MultiVantage system may change the number of measured entities allowed and affect the storage allocation for each entity.
- Disable data collection for all real ACDs before making modifications through **Data Storage Allocation**.
- Set the *CMS* state to single-user mode before making modifications through **Data Storage Allocation**.
- When determining the amount of storage space needed, remember that future growth of items, such as trunk groups or splits/skills, need to be taken into account.
- For reference, print out the **Data Storage Allocation** window before modifications are made.

- If a **Data Storage Allocation** window is modifying data, do not open a second **Data Storage Allocation** window. Wait for the first window to finish the modifications as performing simultaneous modifications through two **Data Storage Allocation** windows can result in damage to data tables.
- Activating a feature such as vectoring requires not only changing switch parameters but also requires the allocation of space for VDNs and vectors which did not have space previously allocated.
- The amount of free space available on the server limits the maximum amount of storage space usable through **Data Storage Allocation**. Use the **Free Space Allocation** window to view the utilization of disk space before making changes to **Data Storage Allocation**. If changes are made to the **Data Storage Allocation** settings, you must run **Free Space Allocation** so that the disk space is properly adjusted.
- The length of the intrahour interval affects the amount of disk space required to store intrahour data. For example, an intrahour interval of 30 minutes requires twice the amount of disk space than an intrahour interval of 60 minutes.
- If the Call Vectoring feature has not been purchased and installed, the fields corresponding to call work codes, vectors, and VDNs are not displayed.
- The data storage values determine how much data is available for running historical reports. For example, if weekly and monthly data is not saved, weekly or monthly reports display no data.
- Disk space affects the amount of historical data that can be stored. The following list provides the maximum durations possible when storing historical data:
 - Intrahour - 62 days
 - Daily - 1825 days (5 years)
 - Weekly - 520 weeks (10 years)
 - Monthly - 120 months (10 years)

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view **Data Storage Allocation** settings, the user ID used to log on to this *Supervisor* session requires *read* permission for the **CMS System Setup** feature.
- To modify **Data Storage Allocation** settings, the user ID used to log on to this *Supervisor* session requires *write* permission for the **CMS System Setup** feature.

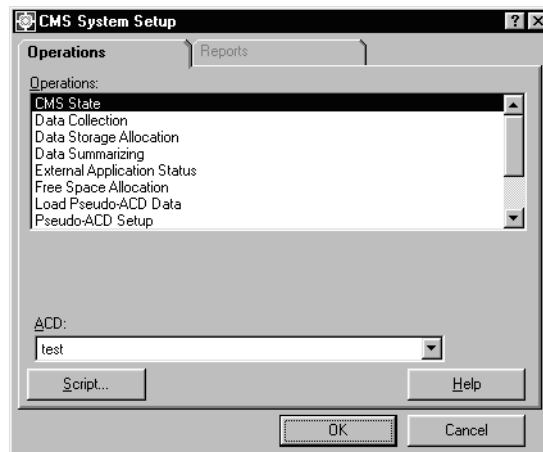
Viewing Data Storage Allocation

This section provides the procedure for viewing the **Data Storage Allocation** parameters.

Steps

1. From the Controller window, select **Tools > System Setup....**

Supervisor displays the **CMS System Setup** window.

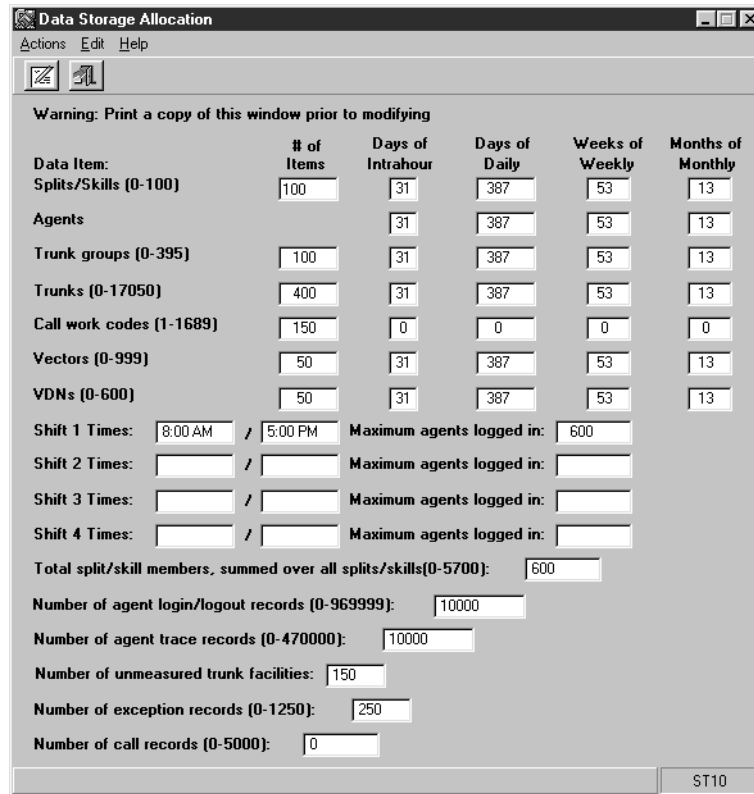


2. In the **Operations:** list, highlight **Data Storage Allocation**.
3. In the **ACD:** field, select the ACD for which the data storage settings will be viewed.

Configuring CMS system settings

4. Select **OK**.

Supervisor displays the **Data Storage Allocation** window.



The **Data Storage Allocation** window is a configuration tool for setting data storage parameters. It features a menu bar with **Actions**, **Edit**, and **Help**. Below the menu is a toolbar with icons for printing and saving. A warning message states: "Warning: Print a copy of this window prior to modifying".

Data Item:	# of Items	Days of Intrahour	Days of Daily	Weeks of Weekly	Months of Monthly
Splits/Skills (0-100)	100	31	387	53	13
Agents		31	387	53	13
Trunk groups (0-395)	100	31	387	53	13
Trunks (0-17050)	400	31	387	53	13
Call work codes (1-1689)	150	0	0	0	0
Vectors (0-999)	50	31	387	53	13
VDNs (0-600)	50	31	387	53	13

Shift 1 Times: 8:00 AM / 5:00 PM Maximum agents logged in: 600
Shift 2 Times: / Maximum agents logged in:
Shift 3 Times: / Maximum agents logged in:
Shift 4 Times: / Maximum agents logged in:

Total split/skill members, summed over all splits/skills(0-5700): 600

Number of agent login/logout records (0-969999): 10000
Number of agent trace records (0-470000): 10000
Number of unmeasured trunk facilities: 150
Number of exception records (0-1250): 250
Number of call records (0-5000): 0

ST10

Modifying Data Storage Allocation

This section provides the definitions of the fields displayed in the **Data Storage Allocation** window and suggestions for determining the necessary values. The data storage configuration is performed on a per-ACD basis. In a multi-ACD environment, data storage allocation should not be set too high as it can exceed disk capacity for storing information for the other ACDs.

Before you begin

Before modifying the configuration of the **Data Storage Allocation** window, the following must occur:

- Data collection for all real ACDs must be disabled.
- The CMS state must be set to single-user mode.
- A full maintenance backup should be performed before changing the **Data Storage Allocation** configuration.

Data storage allocation needs vary among installations. Base your *CMS* data storage needs on these criteria:

- The available disk space on your *CMS* system
- The number of real and pseudo-ACDs on the *CMS* system
- The size of the real ACDs and all pseudo-ACDs, such as number of agents, trunks, and so forth.
- The length of time for data to be stored. For example, 30 days versus 100 days versus two years.

Fields

The following table lists the fields found on the **Data Storage Allocation** window.

Data Storage Allocation

Actions Edit Help

Warning: Print a copy of this window prior to modifying

Data Item:	# of Items	Days of Intrahour	Days of Daily	Weeks of Weekly	Months of Monthly
Splits/Skills (0-100)	100	31	387	53	13
Agents		31	387	53	13
Trunk groups (0-395)	100	31	387	53	13
Trunks (0-17050)	400	31	387	53	13
Call work codes (1-1689)	150	0	0	0	0
Vectors (0-999)	50	31	387	53	13
VDNs (0-600)	50	31	387	53	13
Shift 1 Times:	8:00 AM / 5:00 PM	Maximum agents logged in:		600	
Shift 2 Times:	/	Maximum agents logged in:			
Shift 3 Times:	/	Maximum agents logged in:			
Shift 4 Times:	/	Maximum agents logged in:			
Total split/skill members, summed over all splits/skills(0-5700):					600
Number of agent login/logout records (0-969999):					10000
Number of agent trace records (0-470000):					10000
Number of unmeasured trunk facilities:					150
Number of exception records (0-1250):					250
Number of call records (0-5000):					0

ST10

Field	Description
Data Item	Lists the maximum number of splits/skills, trunk groups, trunks, call work codes, vectors, and VDNs allowed for the system.
# of Items	The number of splits/skills, trunk groups, trunks, call work codes, vectors, and VDNs for which data storage space should be allocated. When this window is initially displayed, these fields display the number of currently administered data items. These numbers should include expected growth. For example, a 30 in this field for Splits/Skills indicates that storage space is allocated for 30 splits/skills. The system may have only 25 splits/skills in existence, but this number allows for future growth.

Field	Description
Days of Intrahour	The number of days where the system stores intrahour data for splits/skills, agents, trunk groups, trunks, call work codes, vectors, and VDNs. Each entity can have a different number of days associated with it. A 0 (zero) in this field causes the system to discard intrahour data which also means that no daily, weekly, or monthly data can be collected. When data collection reaches the end of the length of time specified, the data is combined, archived, and appended into daily information.
Days of Daily	The number of days for which the system stores daily data for splits/skills, agents, trunk groups, trunks, call work codes, vectors, and VDNs. Each entity can have a different number of days associated with it. A 0 (zero) in this field causes the system to discard daily data which also means that no daily or weekly data can be collected. When data collection reaches the end of the length of time specified, the data is combined, archived, and appended into weekly information.
Weeks of Weekly	The number of weeks for which the system stores weekly data for splits/skills, agents, trunk groups, trunks, call work codes, vectors, and VDNs. Each entity can have a different number of weeks associated with it. A 0 (zero) in this field causes the system to discard weekly data. When data collection reaches the end of the length of time specified, the data is combined, archived, and appended into monthly information.
Months of Monthly	The number of months for which the system stores monthly data for splits/skills, agents, trunk groups, trunks, call work codes, vectors, and VDNs. Each entity can have a different number of months associated with it. A 0 (zero) in this field causes the system to discard monthly data. When data collection reaches the end of the length of time specified, the data is deleted.

Field	Description
Shift <i>n</i> times (1, 2, 3, or 4)	The shift start and stop times for each shift of agents (up to four shifts) for the specified ACD. This information is used to calculate the amount of space to be reserved for this historical agent table. Shifts may overlap. If you specify a shift that starts before the data collection start time or ends after the data collection stop time, you receive an error message. The data collection start and stop times are found in the Storage Intervals window in System Setup... CMS rounds shift times to the nearest interval. For example, if you use 30-minute intervals and specify a shift from 8:15 to 5:15, CMS assumes that this shift is from 8:00 to 5:30. Shift must be at least one minute in length. Specify 24-hour shifts according to the following example: 8:00AM to 7:59AM This information is used throughout CMS.
Maximum agents logged in	The maximum number of agents logged in during the shift
Total split/skill members, summed over all splits/skills	The maximum number of agents or extensions across all splits/skills that are measured or logged in at any one time. This number should include those agents or extensions that are members of multiple splits/skills. For this field, each split/skill the agent belongs to counts as a split/skill member. Using this method of determining members results in a higher number than the number of agents. For MultiVantage systems without Expert Agent Selection (EAS), this value represents the maximum number of administered split members. For MultiVantage systems with EAS, this value represents the maximum agent/skill pairs (skill members) that are logged in.

Field	Description
Number of agent login/logout records	The number of agent login/logout records stored by the system. Each time an agent logs in, the system creates a login/logout record. The subsequent logout of the agent also uses this same record. If, at a later time, the agent logs in again, another login/logout record is created. The following equation demonstrates how this number is calculated: $(\text{Number of agents}) \times (\text{Number of times each agent logs in each day}) = \text{Number of agent login/logout records}$ If there are 200 agents and each agent logs in three times per day, using the equation above would result in 600 agent login/logout records for this field. When skills for an agent are changed, a new login/logout record is generated if the agent is currently logged in to the system.
Number of agent trace records	The number of agent trace records for the currently specified ACD. This number is not representative of all ACDs.
Number of unmeasured trunk facilities	The number of trunks not measured by the <i>CMS</i> system. An unmeasured trunk facilities are used for: ● Internal calls (intraswitch) to a measured split or agent ● Internal calls to VDNs ● Calls made by agents to internal destinations or using a trunk group that is not measured ● Transfers and conferences until the transfer/conference is complete This number should be set high enough to handle the traffic expected over these unmeasured trunks, but cannot exceed the maximum number of trunks minus the number of measured trunks. The default value for this field is 300.
Number of exception records	The total number of exceptions stored for <i>CMS</i>. This total is for each type of exception, such as agents, splits/skills, VDNs, and so forth.
Number of call records	The number of call records the system stores for a selected ACD. Using the <i>CMS</i> server for storage and analysis allows a maximum of 5000 records. If the <i>Avaya CMS External Call History</i> product has been purchased and installed, another computer can be used for storage and analysis of the call records. This field then represents the amount of buffer space set aside on the <i>CMS</i> server that is used to collect the call records prior to transmission to the other system. The maximum value for this field using this configuration is 999999 across all ACDs.

Data summarizing

Data is automatically archived based on the entries in the **Storage Intervals** window. The **Data Summarizing** window is used to manually archive data in the daily, weekly, and monthly tables of the historical database.

Contents

This section contains the following topic:

- [Archiving data](#) on page 545

Before you begin

The following items should be read and understood before working with the **Data Summarizing** window:



Important:

Since data is automatically archived based on the entries in the **Storage Intervals** window, this tool *must not* be used unless an archive failed or did not occur.

- Using the **Data Summarizing** window causes the archiving to happen immediately.
- Multiple data summarizing requests are queued and are run in the order requested.
- Automatic daily, weekly, and monthly data summaries are queued along with manual requests so that just one type of data summarizing occurs at a time.
- Adequate storage space must be made available through the **Data Storage Allocation** window before archiving can occur.
- A manual archive cannot be performed unless data exists in the daily, weekly, or monthly tables. If a day of data is missing within the period you are attempting to manually archive, the archive will fail.
- Results of daily, weekly, and monthly archives can be viewed through the Error Log Report or the **Archiving Status** window.
- If *CMS* is not operational when an automatic archive should occur, an error message is logged which indicates that a manual archive should be performed using the **Data Summarizing** window.

Configuring CMS system settings

- If an incomplete week or month is specified as a date, data summarizing will not occur. Partial weekly or monthly data cannot be summarized.
- For example, if a week is configured in the **Storage Intervals** window as being Monday through Friday, entering a date which falls on Saturday in the **Data Summarizing** window results in the week previous to the date specified being archived.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view the **Data Summarizing** window, the user ID used to log in to this *Supervisor* session requires *read* permission for the **CMS System Setup** feature.
- To use the **Data Summarizing** window to perform an archive of the system, the user ID used to log in to this *Supervisor* session requires *write* permission for the **CMS System Setup** feature.

Archiving data

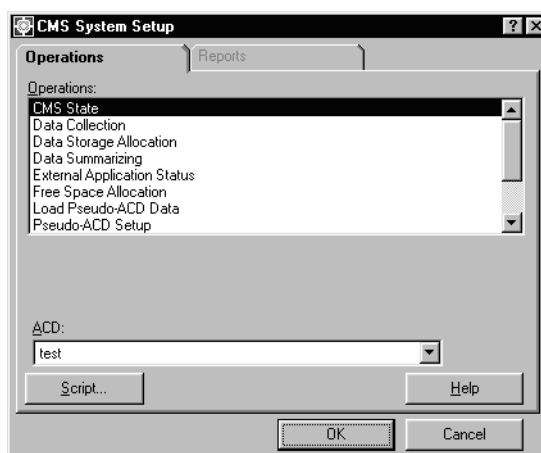
This section provides the procedure for manually archiving data using the **Data Summarizing** window.

Steps

To archive data with the **Data Summarizing** window:

1. From the Controller window, select **Tools > System Setup....**

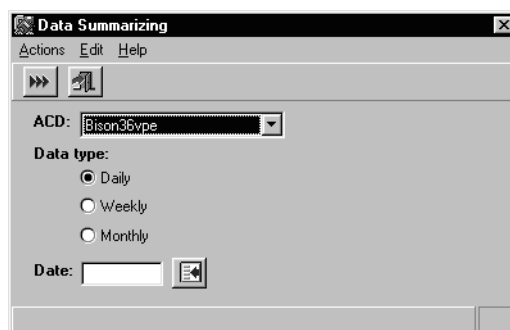
Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **Data Summarizing**.

3. Select **OK**.

Supervisor displays the **Data Summarizing** window.



4. In the **ACD:** field, select the ACD for which data will be archived.

5. In the **Data type:** field, select the appropriate option:

- **Daily** - Archives data for one day. A daily summary archives a partial day. Daily summaries must be complete for each day of the week or month before *CMS* archives the data for that week or month
- **Weekly** - Archives data for one week. A weekly summary must be requested by entering a date that falls within a completed predefined week. See the weekly configuration in the **Storage Intervals** window.
- **Monthly** - Archives data for one month. Set any day during the month in a completed month for which monthly data should be summarized.

6. From the menu bar, select **Actions > Run**.

Supervisor displays a warning message stating that data archiving is a lengthy process and cannot be cancelled. Through this window, it is possible to cancel the data archive, otherwise the process continues when the message box is dismissed.

Archiver started displays on the status line for the first request and **Archiver request submitted** displays if a data summary is currently in progress.

External Application Status

The **External Application Status** feature, a separately purchased option for *CMS*, sends real-time data to an external device or to an external program.

The types of external devices or programs used with the **External Application Status** feature can consist of the following:

- A wallboard - This is a large display placed in a contact center where all agents can view data. This data can consist of the number of calls in the queue, calls being handled by different splits/skills, and other information.
- An employee scheduler program - This third-party software is used to compare the start and end times for agents with schedules created by management.
- A contact center data consolidation program - This third-party software is used to collect data from all contact centers for reporting purposes.

Contents

This section contains the following topics:

- [Enabling or disabling the External Application Status feature](#) on page 549
- [Viewing the states of external applications](#) on page 551
- [Starting or stopping external applications](#) on page 553

Before you begin

The following items should be read and understood before working with the **External Application Status** feature:

- In the United States, external applications are designed and administered by the Avaya Professional Services Organization. For more information about external applications, call Avaya Contact Center CRM Solutions at 1-877-927-6662. For assistance outside the United States, contact your local Avaya distributor or representative.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view **External Application Status** data, the user ID used to log in to this *Supervisor* session requires *read* permission for the **CMS System Setup** feature.
- To enable or disable the **External Application Status** feature, and start or stop external applications, the user ID used to log in to this *Supervisor* session requires *write* permission for the **CMS System Setup** feature.

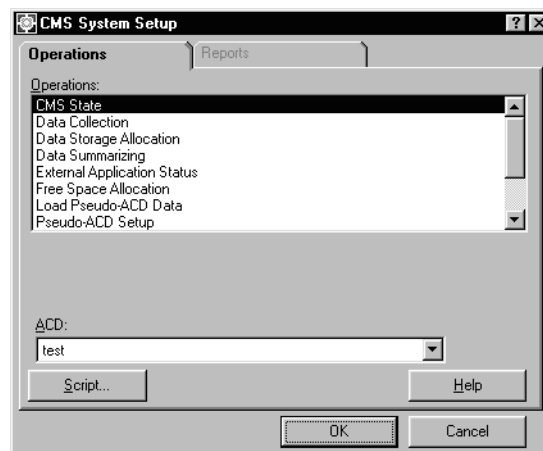
Enabling or disabling the External Application Status feature

This section provides the procedure for enabling or disabling the **External Application Status** feature. This feature must be enabled before external applications can be started. Disabling this feature will cause *CMS* to stop sending data and the external applications cannot be viewed.

Steps

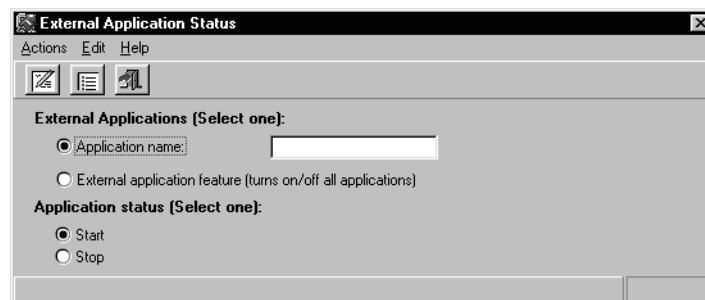
1. From the Controller window, select **Tools > System Setup....**

Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **External Application Status**.
3. Select **OK**.

Supervisor displays the **External Application Status** window.



4. In the **External Application (Select one):** group, select the **External application feature (turns on/off all applications)** option.

Configuring CMS system settings

5. Select the appropriate option from the **Application status (Select one):** group:

- **Start** - This option will enable the **External Application Status** feature.
- **Stop** - This option will disable the **External Application Status** feature.

6. From the menu bar, select **Actions > Modify**.

The status bar displays a message indicating if the action succeeded or failed.

Viewing the states of external applications

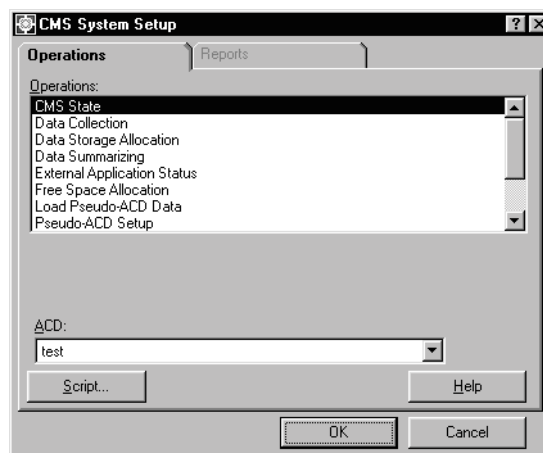
This section provides the procedure for viewing the state of one or more external applications through the **External Application Status** window.

Steps

To view the states of any external applications:

1. From the Controller window, select **Tools > System Setup....**

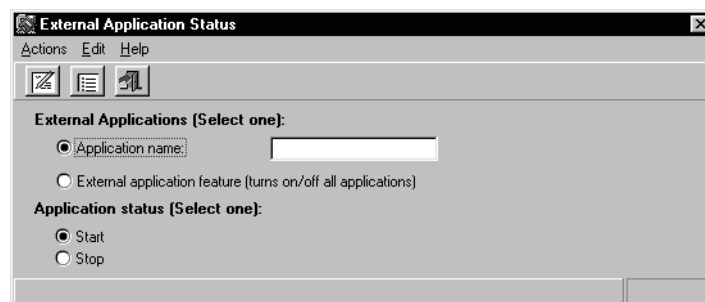
Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **External Application Status**.

3. Select **OK**.

Supervisor displays the **External Application Status** window.



4. In the **External Applications (Select one):** group, select **External application feature (turns on/off all applications)**.
5. From the menu bar, select **Actions > List all**.

Supervisor displays a secondary window displaying one or more applications, their names, and the associated states depending on which option was selected in the step above.

The status of an external application can be one of the following:

- **Starting** - A request to start the external application has been made.
- **Running** - The external application has started and is still running after ten seconds.
- **Stopping** - A request to stop the external application has been made.
- **Stopped** - All processes associated with the external application have stopped.
- **Failed** - The external application has failed repeatedly and is no longer being restarted.

Starting or stopping external applications

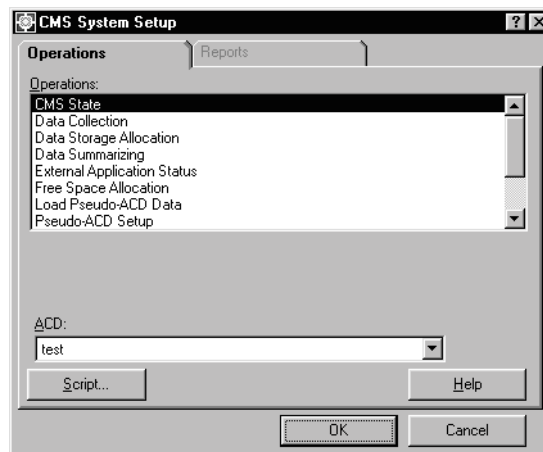
This section provides the procedure for starting and stopping external applications through the **External Application Status** window.

Steps

To start or stop an external application:

1. From the Controller window, select **Tools > System Setup....**

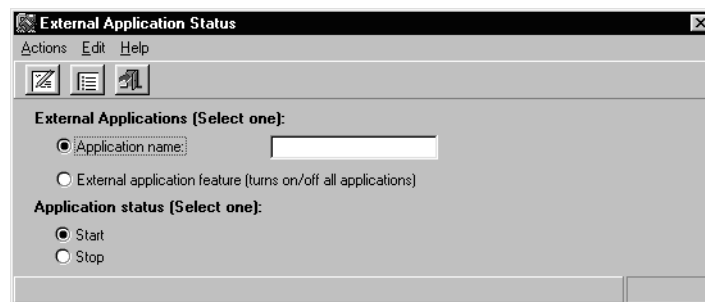
Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **External Application Status**.

3. Select **OK**.

Supervisor displays the **External Application Status** window.



4. Select the **Application name:** option and enter the name of the application to start or stop in the adjacent field.

5. In the **Application status (Select one):** group, select the appropriate option:

- **Start** - *Supervisor* will attempt to start the specified external application.
- **Stop** - *Supervisor* will attempt to stop the specified external application.

6. From the menu bar, select **Actions > Modify**.

Supervisor attempts to carry out the specified action. The status bar displays the results of the action.

The information that displays in the status bar after this step can consist of the following.

- **Starting** - A request to start the external application has been made.
- **Running** - The external application has started and is still running after ten seconds.
- **Stopping** - A request to stop the external application has been made.
- **Stopped** - All processes associated with the external application have stopped.
- **Failed** - The external application has failed repeatedly and is no longer being restarted.

Free Space Allocation

The **Free Space Allocation** window is used to view the current storage statistics and disk usage for the contact center data collected through *CMS*. This window also allows administrators to modify the ACD dbspaces (database spaces) so that more *chunks* can be added or dropped to accommodate the amount of data being stored.

Storage on the *CMS* server is managed by Informix Dynamic Server (IDS). This feature allows information to be stored in *chunks* where each one is equivalent to 256 megabytes. Each contact center entity, such as splits/skills, trunk groups, VDNs and so forth, is given an amount of data storage space on the *CMS* server through the **Data Storage Allocation** window.

If, at any time, you modify the **Data Storage Allocation** configuration, the **Free Space Allocation** window *must* be used to ensure that the appropriate number of *chunks* are allocated for use within the affected ACD dbspace. Failure to do so can result in serious data storage problems.

Contents

This section contains the following topics:

- [Viewing Free Space Allocation](#) on page 557
- [Viewing Free Space Allocation contents](#) on page 559
- [Modifying Free Space Allocation](#) on page 561

Before you begin

The following items should be read and understood before working with the **Free Space Allocation** feature:

- When any of the *CMS* data storage parameters are altered, the change is reflected (for information purposes only) in the **Free Space Allocation** window. For example, if the number of splits/skills on your system is increased in the **Data Storage Allocation** window, the **Free Space Allocation** window will then display the new number as well as the approximate amount of disk space required to handle the data storage for splits/skills.
- The IDS dbspaces used in the **Free Space Allocation** window are created during installation.

- It is not necessary to disable the **Data Collection** feature in order to modify the **Free Space Allocation** window.
- If more data storage space is allocated on a file system than is available, the **Allocated Space** field in the **Free Space Allocation** window will display its value in parentheses.
- Be sure to check the **Available Space** field of an ACD dbspace before increasing any data storage parameters through the **Data Storage Allocation** feature. Doing this can ensure that there will be enough disk space available.
- Be aware that creating custom tables causes *CMS* to use more disk space. If dbspace that is used to store custom tables nears capacity, you are presented with a warning message during login.
- Values entered in the **CMS System Setup** features of **Data Storage Allocation**, **Storage Intervals**, and **Call Work Codes** directly affect usage of disk space. Check **Free Space Allocation** when any of these features are modified.
- Values entered in the **Data Storage Allocation** window of **Forecast Administration** also affect storage space and cause the need for **Free Space Allocation** to be run.
- If a new ACD is added, a new ACD dbspace will be created. Information on adding a new ACD to the *CMS* server can be found in the chapter, Maintaining the CMS software, in the *Avaya Call Management System Software Installation, Maintenance, and Troubleshooting* document.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view the **Free Space Allocation** window, the user ID used to log in to this *Supervisor* session requires *read* permission for the **CMS System Setup** feature.
- To modify ACD dbspaces through the **Free Space Allocation** window, the user ID used to log in to this *Supervisor* session requires *write* permission for the **CMS System Setup** feature.

Viewing Free Space Allocation

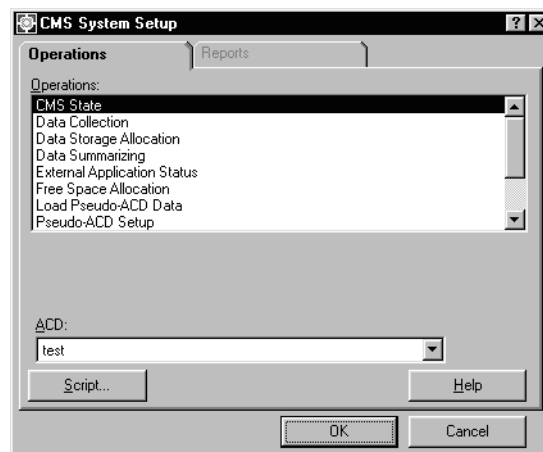
This section provides the procedure for viewing the Informix Dynamic Server (IDS) storage information and allocations through the **Free Space Allocation** window.

Steps

To view the usage of data storage for ACD dbspaces:

1. From the Controller window, select **Tools > System Setup....**

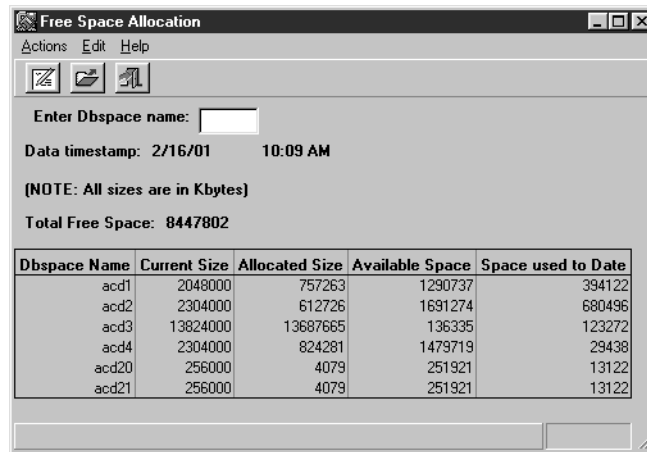
Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **Free Space Allocation**.

3. Select **OK**.

Supervisor displays the **Free Space Allocation** input window.



The **Free Space Allocation** window is a graphical user interface for managing database space. It features a menu bar with **Actions**, **Edit**, and **Help**. Below the menu is a toolbar with three icons: a document, a floppy disk, and a refresh symbol. The main area contains a text input field labeled **Enter Dbspace name:**, a **Data timestamp:** showing **2/16/01 10:09 AM**, and a note: **[NOTE: All sizes are in Kbytes]**. Below this, it states **Total Free Space: 8447802**. At the bottom is a table with five columns: **Dbspace Name**, **Current Size**, **Allocated Size**, **Available Space**, and **Space used to Date**. The table lists six database spaces: **acd1**, **acd2**, **acd3**, **acd4**, **acd20**, and **acd21**, each with its corresponding size values in Kbytes.

Dbspace Name	Current Size	Allocated Size	Available Space	Space used to Date
acd1	2048000	757263	1290737	394122
acd2	2304000	612726	1691274	680496
acd3	13824000	13687665	136335	123272
acd4	2304000	824281	1479719	29438
acd20	256000	4079	251921	13122
acd21	256000	4079	251921	13122

This window displays the following information for each ACD dbspace:

- **Dbspace Name** - The name assigned to this ACD dbspace
- **Current Size** - The total amount of disk space used for this dbspace. Since IDS uses 256 MB *chunks*, this number will always be in increments of 256,000 kilobytes.
- **Allocated Size** - The amount of space needed to store data based on the settings in the **Data Storage Allocation** window
- **Available Space** - The space that will be available after all data has been collected for the time periods specified in the **Data Storage Allocation** window. This number is calculated by subtracting **Allocated Size** from **Current Size**.
- **Space used to Date** - The amount of data actually stored at this time

The window may take a few minutes to open as *CMS* is calculating the current free space and other values on the system before the window can be displayed.

Viewing Free Space Allocation contents

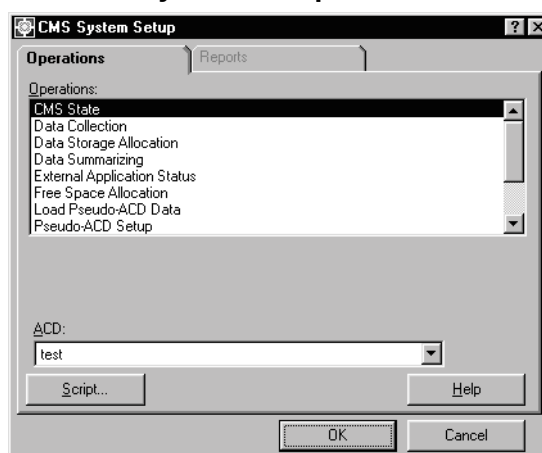
This section provides the procedure for viewing the allocations for each contact center entity within an ACD dbspace.

Steps

To view the amount of storage used by contact center entities within an ACD dbspace:

1. From the Controller window, select **Tools > System Setup....**

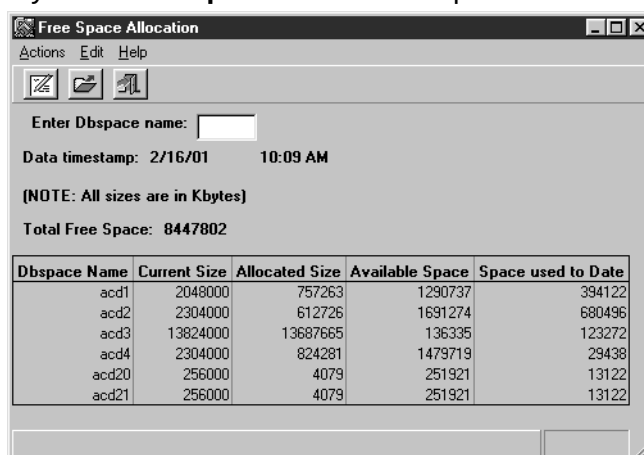
Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **Free Space Allocation**.

3. Select **OK**.

Supervisor displays the **Free Space Allocation** input window.



Configuring CMS system settings

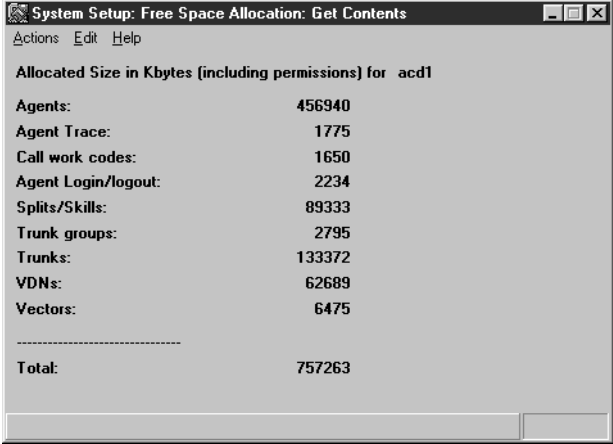
Note:

The window may take a few minutes to open as CMS is calculating the current free space before the window can be displayed.

4. In the **Enter Dbpace name:**, enter the name of the ACD dbpace to view.

5. From the menu bar, select **Actions > Get contents**.

Supervisor displays a secondary window showing the amount of data currently in use by each contact center entity.



Allocated Size in Kbytes (including permissions) for acd1	
Agents:	456940
Agent Trace:	1775
Call work codes:	1650
Agent Login/logout:	2234
Splits/Skills:	89333
Trunk groups:	2795
Trunks:	133372
VDNs:	62689
Vectors:	6475
Total:	757263

Modifying Free Space Allocation

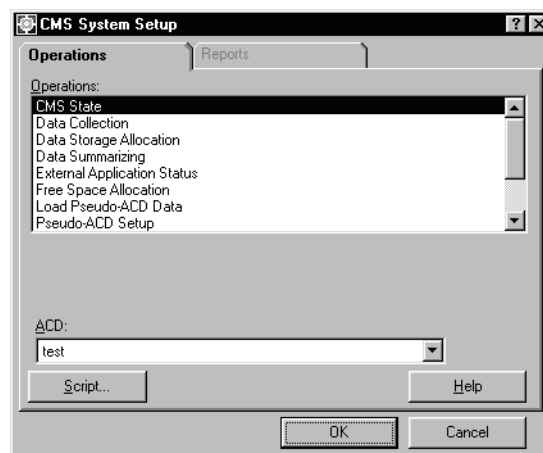
This section provides the procedure for modifying the number of chunks utilized for data storage by Informix Dynamic Server (IDS).

Steps

To modify the number of IDS *chunks* assigned to ACD dbspaces:

1. From the Controller window, select **Tools > System Setup....**

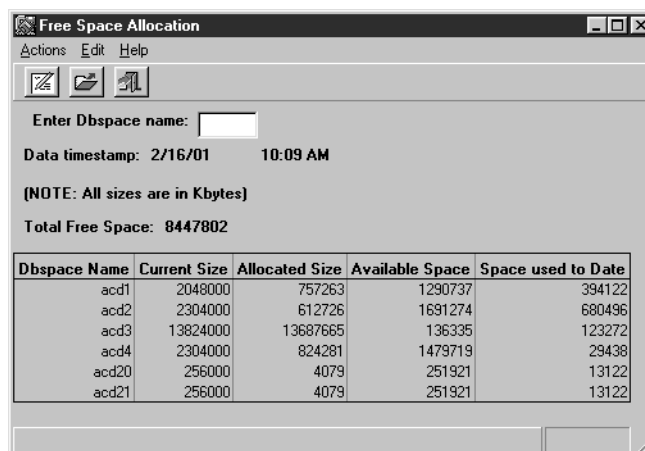
Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **Free Space Allocation**.

3. Select **OK**.

Supervisor displays the **Free Space Allocation** input window.



Note:

The window may take a few minutes to open as *CMS* is calculating the current free space before the window can be displayed.

4. In the **Enter Dbspace name:**, enter the name of the ACD dbspace to adjust.

5. From the menu bar, select **Actions > Modify**.

CMS calculates if more, fewer, or the same number of chunks is required for the specified ACD dbspace and displays a dialog box asking if the process should continue.

If less than 256000 KB of disk space is available when the **Modify** command is executed, an error message will appear that states that no more ACD dbspace chunks can be created.



Important:

It is important that you ensure that the **Current Size** is greater than the **Allocated Size**. It is possible for you to create the undesired situation where the **Allocated Size** is larger than the **Current Size** by setting large values in the **Data Storage Allocation** window and then not using the **Free Space Allocation** window to modify the ACD dbspace appropriately. While the **Free Space Allocation** window may display a positive value in the **Total Free Space** field, it is important to remember that the **Allocated Size** field is a projection of how much space will be used in the future when all the data has been collected for the time periods you have specified. If the number in the **Available Space** field is in parentheses, this indicates that there will not be enough room to store all the data.

6. If *CMS* requires a change in the number of chunks used by the ACD dbspace, select **Yes** from the dialog box.

The number of chunks for the specified ACD dbspace is modified and the status bar displays a **Successful** message.

Migrating CMS data

This section provides the procedures and information involved in migrating data from a backup tape that was created using a previous version of *CMS* and into the database of the new *CMS*.

Contents

This section contains the following topic:

- [Migrating R3 data](#) on page 564

Before you begin

The following items should be read and understood before working with the **R3 Migrate Data** window:

- Attempting to migrate **Agent** and **Call Center Administration** data more once may cause serious errors from which recovery is difficult. A re-migration of ACD administration data requires a second setup of the *CMS* software must be performed.
- To migrate **Agent** and **Call Center Administration** data, *CMS* must be in single-user mode.
- Migrations of system administration data cannot be done in phases. Migrating some user IDs at one time and others at a later time results in two separate sets of data. Only one set of data can be used and cannot be migrated into another set.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To run the **R3 Migrate Data** process, the user ID used to log in to this *Supervisor* session requires *write* permission for **CMS System Setup**.

Migrating R3 data

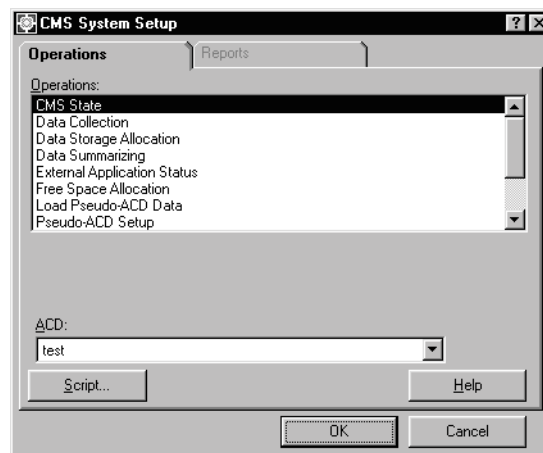
This section provides the procedure for using the **R3 Migrate Data** to merge data created using a previous version of *CMS* to the database of the current version.

Steps

To migrate R3 data into the current database:

1. From the Controller window, select **Tools > System Setup....**

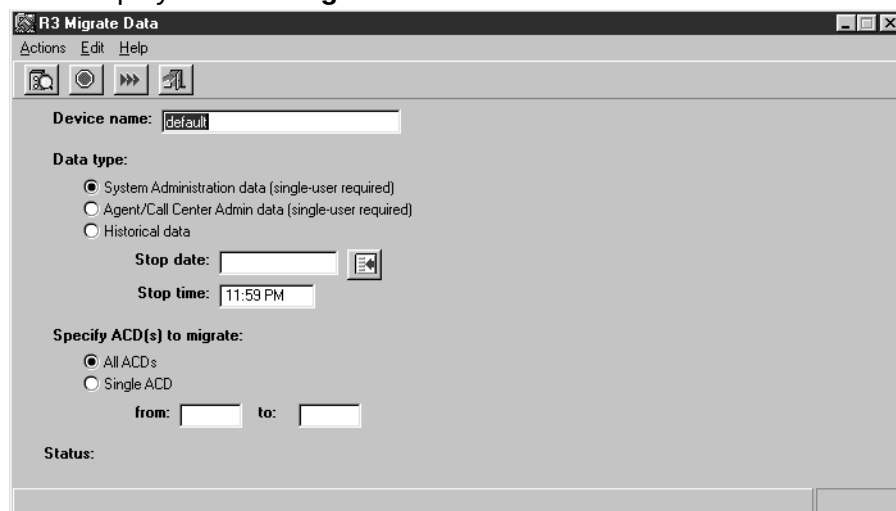
Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **R3 Migrate Data**.

3. Select **OK**.

Supervisor displays the **R3 Migrate Data** window.



4. In the **Device name:** field, enter the device that will read the backup tape containing the data.

To list all devices on the system, select **Actions > List devices**.



CAUTION:

If you choose the **System Administration data** option in this step, note that this migration can only be performed once. Performing the migration of this data a second time can result in corruption of the password tables.

5. In the **Data type:** group, select one of the following three options:

Data type	Migrated data
System Administration data (single user required)	Report GEM files (historical) Report GEM files (real-time) Shortcut settings for <i>CMS</i> <i>CMS</i> users Timetable settings Database items Hypothetical data for the Forecast product Feature access settings, timetables, schedules, and associated tasks from the User Permissions subsystem Historical and real-time custom reports Menu and interface settings for the <i>CMS</i> terminal interface Printer parameters for the <i>CMS</i> printer

Data type	Migrated data
Agent/Call Center Admin data (single user required)	ACD profiles — VDN profiles Agent trace — agents being traced, trace data Agents — shifts, groups Dictionary — synonyms Exceptions — agent admin, link data, malicious call trace, split admin, splits, split profile, trunk group admin, VDN admin, vector admin User permissions — ACD access, split/skill access, trunk groups access, VDN access, vector access Forecast — current day report, current day configuration, call handling profiles, costs profiles, data storage allocation, special day admin, manager status, trunk group profiles
Historical data	Exceptions — agent data, split access, trunk groups, trunk group access, VDN data, vector data Historical reports — agent activity, agent login/logout, daily agent data, daily call work codes data, daily splits data, daily trunk groups data, daily trunk groups data, daily trunks data, daily VDN data, daily vector data, intrahour agent data, intrahour agent login-logout data, intrahour call work code data, intrahour split data, intrahour trunk group data, intrahour trunk data, intrahour VDN data, intrahour vector data, monthly agent data, monthly call work code data, monthly split data, monthly trunk group data, monthly trunk data, monthly VDN data, monthly vector data, weekly agent data, weekly call work code data, weekly split data, weekly trunk group data, weekly trunk data, weekly VDN data, weekly vector data Forecast — daily split data, daily trunk group data, special day split data, interval split data, interval trunk group data

6. In the **Stop date:** field, enter the date through which you wish to record data for migration to the new *CMS*. The migration process does not migrate data collected after the date specified.

Leaving this field blank will cause the program to migrate data up to the data written on the tape by the *CMS* Maintenance Backup procedure.

7. In the **Stop time:** field, enter the time through which you wish to record data for migration to the new *CMS*. The migration process does not migrate data collected after the stop date and time specified.

If this field is left blank, the stop time defaults to **23 : 59**.

8. In the **Specify ACD(s) to migrate:** group, select one of the following options:

- **All ACDs** — Data is migrated from the backup tape to the hard disk on an ACD-by-ACD basis. Data for ACD1 on the tape backup will be used for ACD1 on the new CMS.
- **Single ACD** — Historical data is migrated from the backup tape to the hard disk for the ACDs specified in the **from:** and **to:** fields.

For example, to migrate data from ACD1 on the backup tape to ACD4 on the new CMS, place **1** in the **from:** field and **4** in the **to:** field.

9. From the menu bar, select **Actions > Run**. The **Run** menu item appears only if the settings for **Data Collection** and **CMS State** are appropriate for the type of migration selected.

CMS begins the migration process. The **Status:** field will report the progress of the migration.

Pseudo-ACDs

A pseudo-ACD is an area created on the CMS server to store previously backed-up ACD data. A pseudo-ACD is not a real ACD and does not communicate with any MultiVantage system.

Pseudo-ACDs are used to store data which can then be viewed in reports. This could be useful in the following scenarios:

- Storing data from an off-site contact center for the purposes of reporting in conjunction with an on-site *CMS*.
- Storing data for archival purposes. This data can no longer be deleted by the **Data Storage Allocation** feature and can be used to generate reports on older data for comparison with more recent ACD data.

Contents

This section contains the following topics:

- [Creating a pseudo-ACD](#) on page 572
- [Viewing pseudo-ACDs](#) on page 573
- [Deleting a pseudo-ACD](#) on page 574
- [Loading pseudo-ACD data](#) on page 575

Before you begin

The following items should be read and understood before working with pseudo-ACDs:

- Each pseudo-ACD is given a number from 9 through 26. Numbers 1 through 8 are reserved for eight real ACDs connected to the *CMS* server.
- In order to load the pseudo-ACD data, the *CMS* server must have enough free space available. Use the **Free Space Allocation** window to see how much space is required for the existing ACDs and how much is available for the pseudo-ACD data.
- Use the **Data Storage Allocation** window to define how much historical data will be stored for the pseudo-ACD. Enter storage values equal to or greater than those used from the ACD which originally held the data.

Configuring CMS system settings

- Use the **Storage Intervals** window to set storage intervals for the pseudo-ACD data to match the interval size and data collection times of the ACD from which the data was taken.
- The Data Collection feature can be running when modifications are made in the **Data Storage Allocation** or **Storage Intervals** windows for a pseudo-ACD, but *CMS* must be in single-user mode.
- If the pseudo-ACD has the separately purchased Forecast feature on it, **Forecast Data Storage Allocation** parameters may require changes in order to match those of the pseudo-ACD. This is not the same as the **Data Storage Allocation** window normally used in *CMS*.
- In order for users to access the pseudo-ACD, permissions must be given through the **ACD Access** window in the **User Permissions** subsystem.
- A pseudo-ACD can have a name assigned to it in the Dictionary even before the pseudo-ACD is created.
- Creation of a pseudo-ACD using *Supervisor* while users are logged in requires that the users log out and back in before they can see the new pseudo-ACD.
- Before deleting a pseudo-ACD, turn off permissions to it so that users will not be working in the pseudo-ACD when it is deleted.
- *CMS* does not automatically summarize pseudo-ACD data.
- The following menu items are available when a pseudo-ACD is selected and the appropriate user permissions are assigned:

Reports	CMS System Setup	Maintenance
Historical	CMS State	ACD Status
Dictionary	Data Collection	Archiving Status
all submenu items	Data Storage Allocations	Backup Data
Forecast	Data Summarizing	Backup/Restore Devices
all submenu items	Free Space Allocation	Connection Status
Custom Reports	Load Pseudo-ACD	Printer Administration
all submenu items	Pseudo-ACD Setup	Restore Data
User Permissions	R3 Migrate Data	
all submenu items	Storage Intervals	
	Switch Setup	

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view the **Pseudo-ACD Setup** window, the user ID used to log in to this *Supervisor* session requires *read* permission for the **CMS System Setup** feature.
- To add or delete pseudo-ACDs, the user ID used to log in to this *Supervisor* session requires *write* permission for the **CMS System Setup** feature.

Creating a pseudo-ACD

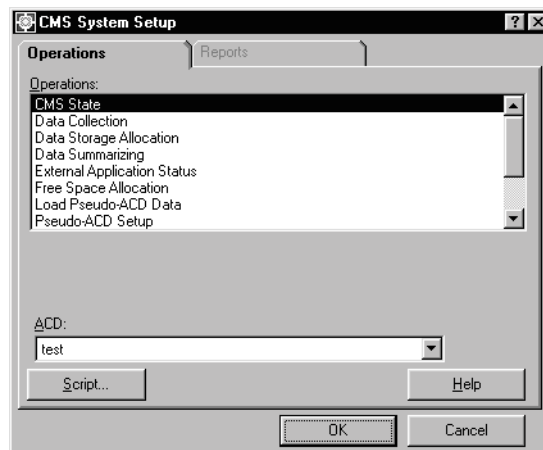
This section provides the procedure for creating a pseudo-ACD on a *CMS* server.

Steps

To create a pseudo-ACD on a *CMS* server:

1. From the Controller window, select **Tools > System Setup....**

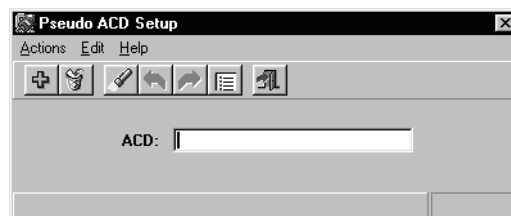
Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **Pseudo-ACD Setup**.

3. Select **OK**.

Supervisor displays the **Pseudo ACD Setup** window.



4. In the **ACD:** field, enter the number or the name of the pseudo-ACD. The number can range from 9 to 26. This field requires a number to be entered if a name for this pseudo-ACD has not been defined in the Dictionary.

5. From the menu bar, select **Actions > Add**.

CMS creates the pseudo-ACD.

Viewing pseudo-ACDs

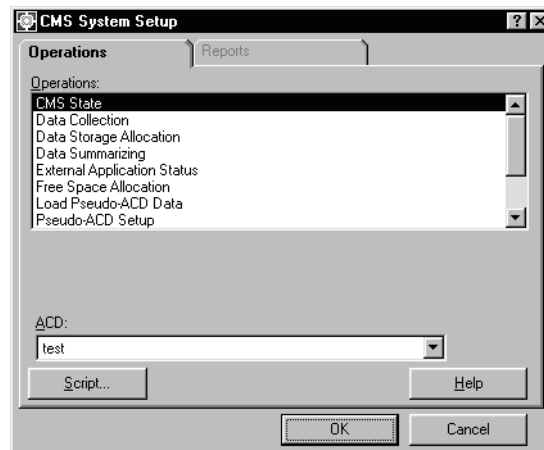
This section provides the procedure for listing the pseudo-ACDs on a *CMS* server.

Steps

To list pseudo-ACDs on a *CMS* server:

1. From the Controller window, select **Tools > System Setup....**

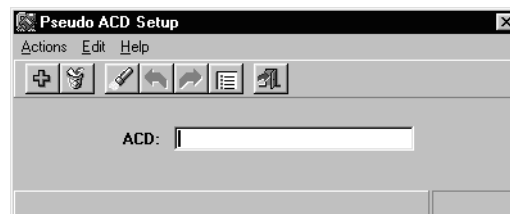
Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **Pseudo-ACD Setup**.

3. Select **OK**.

Supervisor displays the **Pseudo ACD Setup** window.



4. From the menu bar, select **Actions > List all**.

Supervisor displays a secondary window listing all ACDs. The status bar displays the total number of pseudo-ACDs on the *CMS* server. Only those ACDs for which this user ID has *read* permission are displayed.

Deleting a pseudo-ACD

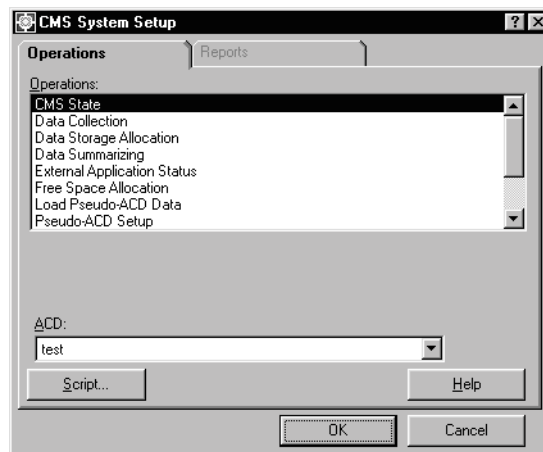
This section provides the procedure for deleting a pseudo-ACD on a CMS server.

Steps

To delete a pseudo-ACD on a CMS server:

1. From the Controller window, select **Tools > System Setup....**

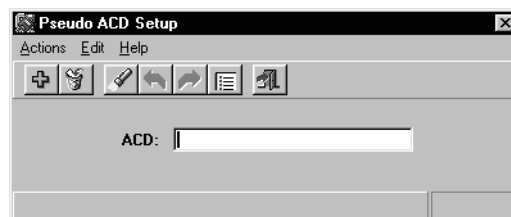
Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **Pseudo-ACD Setup**.

3. Select **OK**.

Supervisor displays the **Pseudo ACD Setup** window.



4. In the **ACD:** field, enter the name or number of a pseudo-ACD to delete.

5. From the menu bar, select **Actions > Find one**.

The status bar displays whether a match was found for the specified pseudo-ACD.

6. From the menu bar, select **Actions > Delete**.

CMS deletes the pseudo-ACD, the associated data, and any associated disk space. When the operation completes, *Supervisor* displays a **Successful** message in the status bar.

Loading pseudo-ACD data

This section provides the procedure for loading historical data archived from an existing ACD into a pseudo-ACD. After the pseudo-ACD receives the data, historical reports can be run with this information.

Before you begin

The following items should be read and understood before loading data into a pseudo-ACD:

- A pseudo-ACD must have been created in order for data to be loaded into it.
- Loading data into a pseudo-ACD requires data archived from an existing ACD on a *CMS* server.
- Set the pseudo-ACD as the current ACD before attempting to load data into it.
- Since the pseudo-ACD accepts any data on a backup volume, the data from a full backup may be more than needed. Loading a pseudo-ACD with a full backup creates the possibility of disk space problems. To eliminate this problem, perform a **Specific Tables** backup when creating the ACD data to load on a pseudo-ACD.
- Loading a pseudo-ACD with data automatically overwrites any existing data currently used by the pseudo-ACD.
- The number of splits/skills, agents, and other contact center entities are set to 0 (zero) for the pseudo-ACD when it is created. Set these entities to match the ACD supplying the data. Change these settings through the **Call Center Administration** feature.
- When created, a new pseudo-ACD has historical data storage parameters set to 0 (zero). To load data into the pseudo-ACD, the historical data storage parameters must be set to those of the ACD from which the data was archived, if not greater. Change these settings through the **Data Storage Allocation** window.
- The **Storage Intervals** and **Data Collection** settings for the pseudo-ACD require configuration in order to match those of the ACD supplying the data. If these settings are incorrect, loading the data into the pseudo-ACD fails.

Permissions

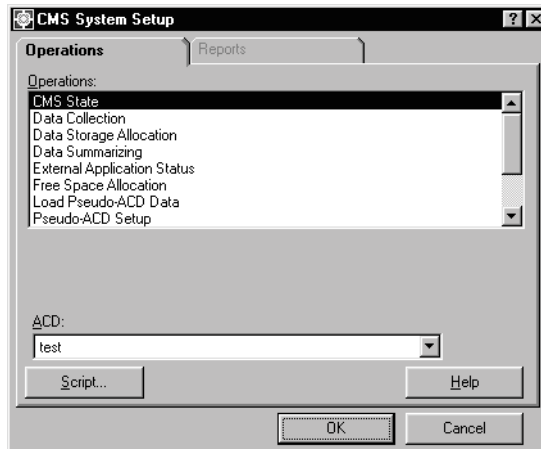
To load data into a pseudo-ACD, the user ID used to log in to this *Supervisor* session requires *write* permission for the **CMS System Setup** feature.

Steps

To load a data backup into a pseudo-ACD:

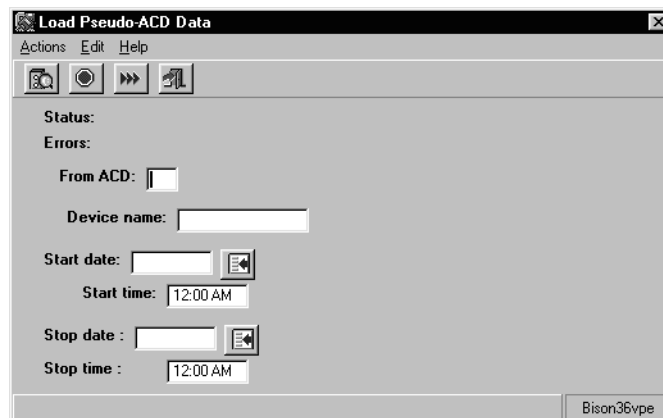
1. From the Controller window, select **Tools > System Setup....**

*Supervisor displays the **CMS System Setup** window.*



2. In the **ACD:** field, select the pseudo-ACD that will receive the data.
3. In the **Operations:** list, highlight **Load Pseudo-ACD Data**.
4. Select **OK**.

*Supervisor displays the **Load Pseudo-ACD Data** window.*



5. In the **From ACD:** field, enter the number of the ACD used to make the data backup.
6. In the **Device name:** field, enter the name of the device that has the backup volume loaded.

To list all the devices on the CMS server, select **Actions > List devices** from the menu bar.

7. In the **Start date:** field, enter the date representing the first day of historical data to load on the pseudo-ACD. *CMS* searches the data backup for this date which serves as the starting point for loading data.
8. In the **Start time:** field, enter the time of the **Start date:** for which *CMS* will start loading data. The default is **12 : 00AM**.
9. In the **Stop date:** field, enter the last date of historical data that *CMS* will load on the pseudo-ACD.
10. In the **Stop time:** field, enter the time of the **Stop date:** for which *CMS* will stop loading data from the data backup. The default is **12 : 00AM**.
11. From the menu bar, select **Actions > Run**.

CMS begins loading data from the backup into the pseudo-ACD. The **Status:** field at the top of the window displays events in the loading process. The **Errors:** field displays any problems encountered during the loading process.

Cancelling the load process before it is finished will cause the pseudo-ACD to have partial data.

Storage intervals

The **Storage Intervals** window allows changes to be made to *CMS* which affect how and when data for the contact center is stored.

It is recommended that these settings are configured during installation and not changed because subsequent changes will affect data storage and report data coverage.

Contents

This section contains the following topics:

- [Viewing storage interval settings](#) on page 581
- [Changing the intrahour interval](#) on page 582
- [Changing switch time zone](#) on page 584
- [Modifying data summarizing settings](#) on page 586

Before you begin

The following items should be read and understood before working with the **Storage Intervals** window:

- *CMS* must be in single-user mode and the data collection must be off before modifications to these settings can be made.
- Do not open another **Storage Intervals** window if one is already being used to alter these settings. The loss of data tables can result if multiple **Storage Intervals** windows are used.
- Free space allocation, data storage allocation, and storage intervals closely tied. A change in storage intervals may require adjustment of data storage or storage times in the **Data Storage Allocation** and **Free Space Allocation** windows. The more frequently *CMS* archives data, the more storage space is required.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view settings in the **Storage Intervals** window, the user ID used to log in to this *Supervisor* session requires *read* permission for the **CMS System Setup** feature.
- To modify settings in the **Storage Intervals** window, the user ID used to log in to this *Supervisor* session requires *write* permission for the **CMS System Setup** feature.

Viewing storage interval settings

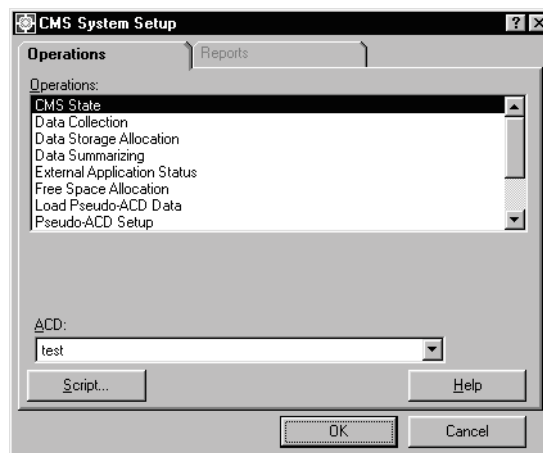
This section provides the procedure for viewing the **Storage Interval** settings for contact center data.

Steps

To view settings in the **Storage Intervals** window:

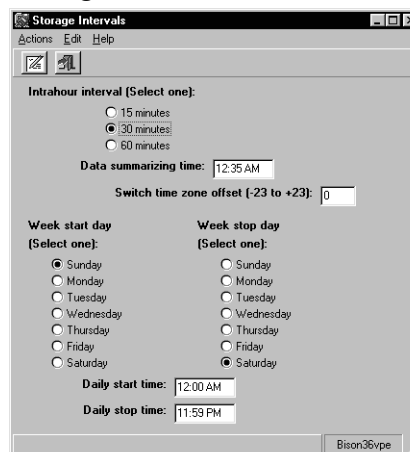
1. From the Controller window, select **Tools > System Setup....**

Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **Storage Intervals**.
3. In the **ACD:** field, select the ACD for which settings will be viewed.
4. Select **OK**.

Supervisor displays the **Storage Intervals** window.



Changing the intrahour interval

This section provides the procedure for changing the rate at which *CMS* archives data within a one-hour time period.

Before you begin

The following items should be read and understood before changing the intrahour interval setting:

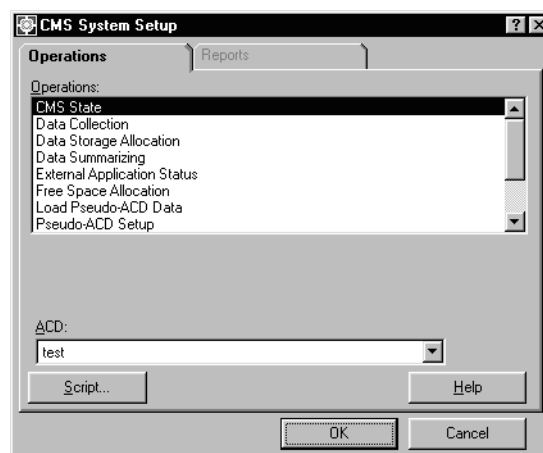
- Changing the intrahour interval can result in a lengthy process as *CMS* must make modifications to all previously collected data.
- Increasing the frequency of the intrahour interval results in the contact center data taking more storage space. This can require changes to the length of time for which *CMS* stores contact center data. To change the length of time which data is stored, use the **Data Storage Allocation** window.
- Perform a full backup of historical data before making changes to the intrahour interval or data collection times or dates. After the changes are made, perform another full backup of historical data.
- Real-time reports use the intrahour interval when displaying data. Cumulative data is reset to zero at the beginning of each intrahour interval.

Steps

To change the setting for the intrahour interval:

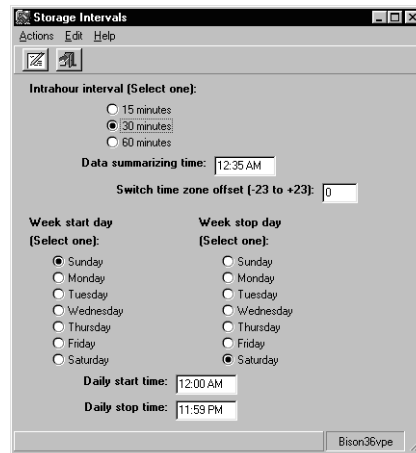
1. From the Controller window, select **Tools > System Setup....**

Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **Storage Intervals**.
3. In the **ACD:** field, select the ACD for which the intrahour interval will be changed.
4. Select **OK**.

Supervisor displays the **Storage Intervals** window.



5. In the **Intrahour interval (Select one):** group, select the option for the rate at which **CMS** archives contact center data.

CAUTION:

Do not open another **Storage Intervals** window and attempt to change other settings during the following step. Doing so can result in the loss of database tables.

6. From the menu bar, select **Actions > Modify**.
CMS records the setting change and alters all previously recorded data to match this setting. This update process is lengthy and must not be interrupted. The status bar will display a **Successful** message when the operation completes.
7. Restart data collection. See [Changing the data collection state](#) on page 531 for information on this procedure.
8. Return *CMS* to multi-user mode. See the [Changing the CMS state](#) on page 525 for information on this procedure.

Changing switch time zone

This section provides the procedure on changing the time zone settings for an ACD so that it matches the time zone of the CMS server. This procedure is only necessary for those configurations where an ACD resides in a different time zone than that of the CMS server.

Before you begin

The following items should be read and understood before changing the time zone for an ACD:

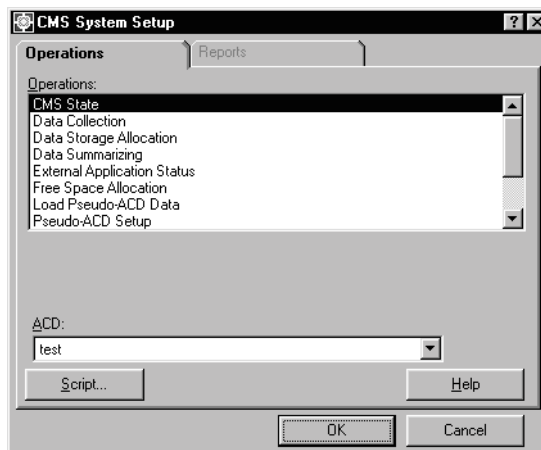
- CMS must be in single-user mode and the data collection must be off before modifications to these settings can be made.
- If an ACD is connected to a CMS server in the same time zone, the **Switch time zone offset:** field should be set to **0**.

Steps

To change the time zone offset for an ACD:

1. From the Controller window, select **Tools > System Setup....**

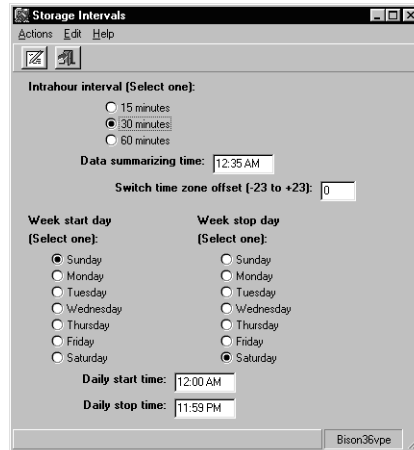
Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **Storage Intervals**.
3. In the **ACD:** field, select the ACD which will have its time zone offset changed.

4. Select **OK**.

Supervisor displays the **Storage Intervals** window.



5. In the **Switch time zone offset (-23 to +23):** field, enter the number of hours that will convert the time zone of the ACD so that it matches the time zone of the *CMS* server. This entry must be preceded by a – or + for proper time zone calculation.

For example, if an ACD is located in New York City and its *CMS* server resides in Los Angeles, **–3** should be entered in this field. Reports will now present consist data regarding times in *CMS*.

6. From the menu bar, select **Actions > Modify**.

CMS adjust the time setting of the ACD by the value specified. The status bar will display a **Successful** message when the operation is complete.

7. Restart data collection. See [Changing the data collection state](#) on page 531 for information on this procedure.
8. Return *CMS* to multi-user mode. See [Changing the CMS state](#) on page 525 for information on this procedure.

Modifying data summarizing settings

This section provides the procedure for modifying the times and days for which contact center data is recorded and summarized.

Before you begin

The following items should be read and understood before modifying data summarizing settings:

- CMS must be in single-user mode and the data collection must be off before modifications to these settings can be made.
- Perform a full backup of historical data before making changes to the data collection times or dates. After the changes are made, perform another full backup of historical data.
- When a weekly report is requested, the date entered must correspond to the day of the week specified in the **Week start day** field.



CAUTION:

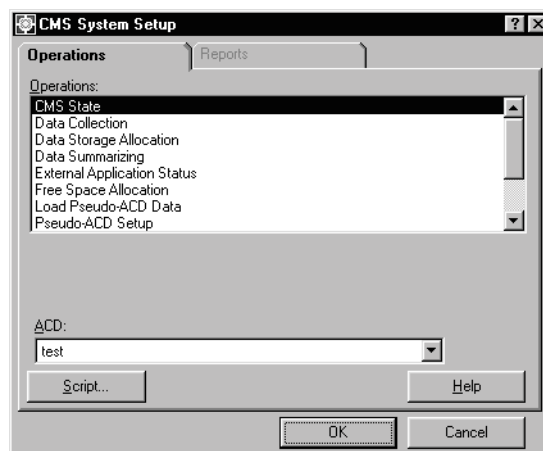
Do not open another **Storage Intervals** window and attempt to change other settings while modifying these settings. Doing so can result in the loss of database tables.

Steps

To modify the CMS date and time settings for data summarizing:

1. From the Controller window, select **Tools > System Setup....**

Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **Storage Intervals**.
3. In the **ACD:** field, select the ACD which will have its data summarizing settings changed.
4. Select **OK**.

Supervisor displays the **Storage Intervals** window.

5. In the **Data summarizing time:** field, enter the time when CMS should summarize data for the previous day, week, and month. The time must be entered in one of the following formats:

- HH:MM PM — For example, **12:35 AM**
- 24-hour format — For example, **00:35**

If you do not wish to change this field, skip this step and proceed to the next.

The time entered in this field must be equal to or greater to intrahour interval in order to allow CMS to finish archiving data. The default time for this field is **12:35 AM**.

Weekly summaries are started on the day following the day specified in the **Week stop day** field. Monthly summaries are started on the first day of the next month. For example, the monthly summary for January is done on the first day of February.

To run data summarizing on the day for which data was collected, the **Data summarizing time:** field must be set for 15 minutes after the **Daily stop time** and prior to midnight. For example, the **Data summarizing time:** field can be set to **11:59 PM** or **23:59**. This would require that the **Daily stop time:** field be set to **11:44 PM** or **23:44**.

6. In the **Week start day (Select one):** group, select the day that represents the start of the work week for the contact center.

If you do not wish to change this field, skip this step and proceed to the next.

The default value for this field is **Sunday**.

7. In the **Week stop day (Select one):** group, select the day that represents the end of the work week for the contact center.

If you do not wish to change this field, skip this step and proceed to the next.

The default value for this field is **Saturday**. Data through the end of the stop day is collected and included in the weekly summary.

When the start or stop day is changed for the week, the data from the old start day through the new stop day for the week is archived.

If possible, make any changes to the **Week start day** and **Week stop day** after *CMS* performs the weekly archive. This change is not possible for a seven-day week. When the start and stop day for the week are changed, the current week will contain the data item, **INCOMPLETE**, to indicate that the data for this week is peculiar since the definition of that week was changed.

If the **Week start day** and **Week stop day** are identical, data for only one day will be collected for that week.

8. In the **Daily start time:** field, enter the time at which data collection should start. Enter the time in one of the following formats:

- HH:MM PM — For example, **12:00 AM**
- 24-hour format — For example, **00:00**

If you do not wish to change this field, skip this step and proceed to the next.

The default value for this field is **12:00 AM** (midnight).

9. In the **Daily stop time:** field, enter the time at which data collection should stop. Enter the time in one of the formats specified in the previous step.

If you do not wish to change this field, skip this step and proceed to the next.

The default value for this field is **11:59 PM**. Data is collected through the end of the minute specified.

Do not enter the same time in this field as in the **Daily start time:** field. Doing so will result in data being collected for only one minute per day.

10. From the menu bar, select **Actions > Modify**.

CMS updates the data summarizing parameters as specified. A **Successful** message appears in the status bar when *CMS* completes the operation.

11. Restart data collection. See [Changing the data collection state](#) on page 531 for information on this procedure.
12. Return *CMS* to multi-user mode. See [Changing the CMS state](#) on page 525 for information on this procedure.

Switch setup

Use the **Switch Setup** window to view the following information:

- MultiVantage setup information — ACD name, release, and activated features, such as Call Vectoring, Call Prompting, and Expert Agent Selection (EAS)
- CMS software information — release, version, and load
- Phantom abandon call timer values

Contents

This section contains the following topics:

- [Viewing switch setup data](#) on page 591
- [Listing all switch setup data](#) on page 593

Before you begin

The following items should be read and understood before working with the **Switch Setup** window:

- The **Switch Setup** window can only display real ACDs. Pseudo-ACDs are not supported.
- This window can only be used to view information. No modifications to the ACD can be made through *Supervisor*.
- The phantom abandon call timer is used to determine which calls to count as abandoned calls rather than ACD call. If the call lasts less than the number of seconds specified, the MultiVantage system considers it an abandoned call. The feature is useful in areas where the central office does not provide disconnect supervision on trunks.
- To display an ACD name in the **Switch Setup** window, it must first have the name assigned in the Dictionary. See [Adding an ACD name](#) on page 54 for more information on this procedure.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view ACDs in the **Switch Setup** window, the user ID used to log in to this *Supervisor* session requires *read* permission for the **CMS System Setup** feature.

Viewing switch setup data

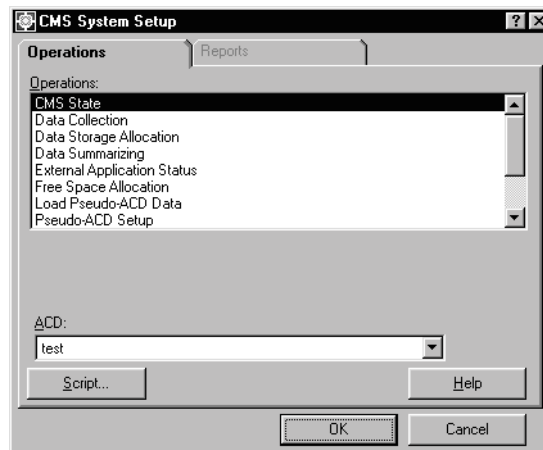
This section provides the procedure for viewing setup information for an ACD.

Steps

To view the setup settings for an ACD:

1. From the Controller window, select **Tools > System Setup....**

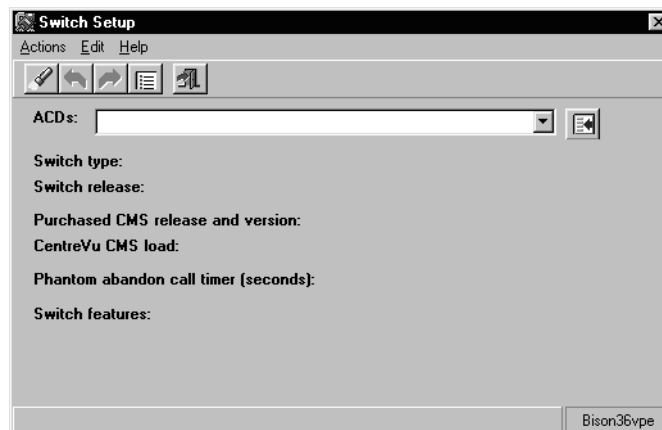
Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **Switch Setup**.

3. Select **OK**.

Supervisor displays the **Switch Setup** window.



Configuring CMS system settings

4. In the **ACD:** field, enter the name or number of the ACD to display.

To have all ACDs returned from the query so that you can cycle through them in this dialog, leave this field blank and proceed to the next step.

5. From the menu bar, select **Actions > Find one**.

Supervisor displays the setup information for the specified ACD. If more than one match was found, use the **Next** and **Previous** items under **Actions** menu to cycle through them.

Listing all switch setup data

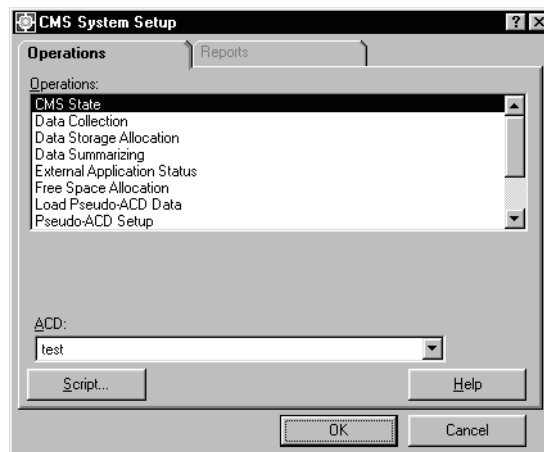
This section provides the procedure for viewing setup information for all ACDs.

Steps

To view the setup settings for all ACDs:

1. From the Controller window, select **Tools > System Setup....**

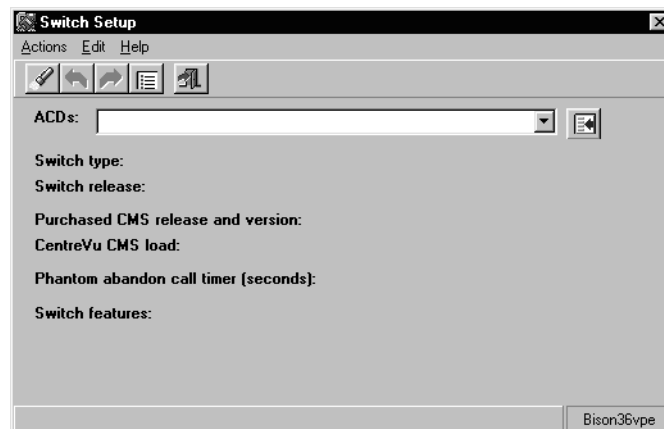
Supervisor displays the **CMS System Setup** window.



2. In the **Operations:** list, highlight **Switch Setup**.

3. Select **OK**.

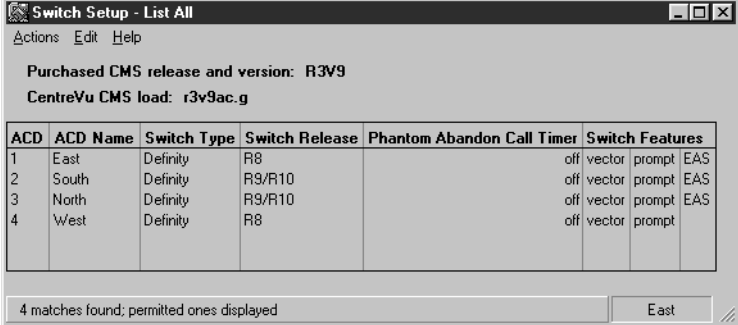
Supervisor displays the **Switch Setup** window.



Configuring CMS system settings

4. From the menu bar, select **Actions > List all**.

Supervisor displays a secondary window listing all ACDs and their associated settings.



The screenshot shows a window titled "Switch Setup - List All" with a menu bar containing "Actions", "Edit", and "Help". Below the menu bar, it displays "Purchased CMS release and version: R3V9" and "CentreVu CMS load: r3v9ac.g". The main content is a table with the following data:

ACD	ACD Name	Switch Type	Switch Release	Phantom Abandon Call Timer	Switch Features
1	East	Definity	R8	off	vector prompt EAS
2	South	Definity	R9/R10	off	vector prompt EAS
3	North	Definity	R9/R10	off	vector prompt EAS
4	West	Definity	R8	off	vector prompt

At the bottom of the window, there is a status bar that says "4 matches found; permitted ones displayed" and a button labeled "East".

Chapter 11: Maintaining CMS

Maintaining a *CMS* server consists of routine tasks such as backing up data, checking the status of the *CMS* connection to the switch, and viewing the maintenance error log.

The **Maintenance** menu allows you to perform the following tasks:

- Initiate *CMS* backups and restores
- Assign a name and description to the full path name for a device used for data backups
- Assign printer names and options
- Monitor the data link between the *CMS* server and the switch
- View the measurement status of a particular ACD
- View the Maintenance Error Log
- View the archiving status

Contents

This section contains the following topics:

- [ACD status](#) on page 597
- [Archiving status](#) on page 605
- [Backup/restore devices](#) on page 611
- [Data Backup](#) on page 623
- [Restoring data](#) on page 641
- [Connection status](#) on page 649
- [Administering a printer](#) on page 657
- [Maintenance Error Log](#) on page 667
- [ACD Administration Log](#) on page 699

Before you begin

If an ACD Group is selected as the current ACD in the **Maintenance** window, only those operations that are valid for the ACD Group will appear in the **Operations:** list.

ACD status

The **ACD Status** window displays information about the current selected ACD, including the number of splits or skills, agents logged in, trunk groups, trunks, VDNs, vectors (if your company has purchased Call Vectoring), and measured splits. You can also use the ACD status window to request a complete set of translations from a specific ACD. The ACD status window will look different if your switch has Expert Agent Selection (EAS).

Contents

This section contains the following topics:

- [Viewing ACD status](#) on page 598
- [Listing ACD status](#) on page 601
- [Description of the ACD Status window – with EAS](#) on page 602
- [Description of the ACD Status window – without EAS](#) on page 603
- [Requesting ACD translations](#) on page 604

Before you begin

The following items should be read and understood before viewing the status of an ACD through the Maintenance subsystem:

- The link must be up between the MultiVantage system and the *CMS*, if you want to view the status or request translations from a specific ACD.
- Data collection must be on for the specific ACD for the translations you request.
- The data will be lost during a translations pump-up. An acknowledgement window will ask if you want to proceed.

Permissions

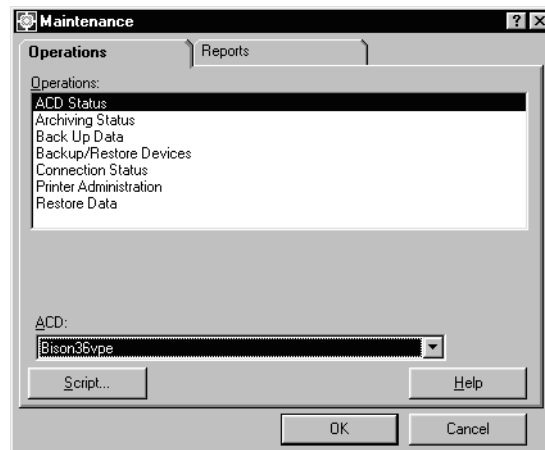
Depending on the procedure you wish to perform, you will need the following permissions:

- To view the **ACD Status** window, you need to have *read* permission for the **Maintenance** subsystem.
- To request translations, you need to have *write* permission for the **Maintenance** subsystem.

Viewing ACD status

1. From the Controller window, select **Tools > Maintenance**.

Supervisor displays the **Maintenance** window.

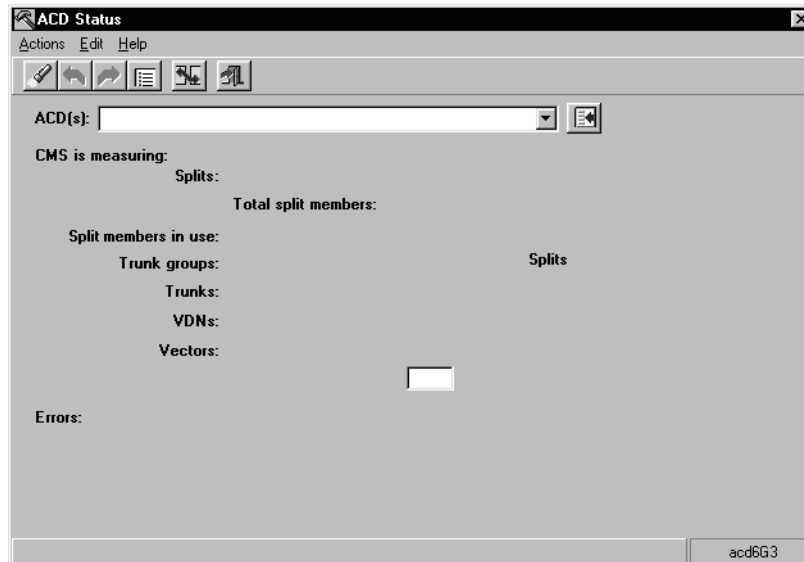


2. Select the **Operations** tab.
3. Highlight **ACD Status** in the **Operations:** list.

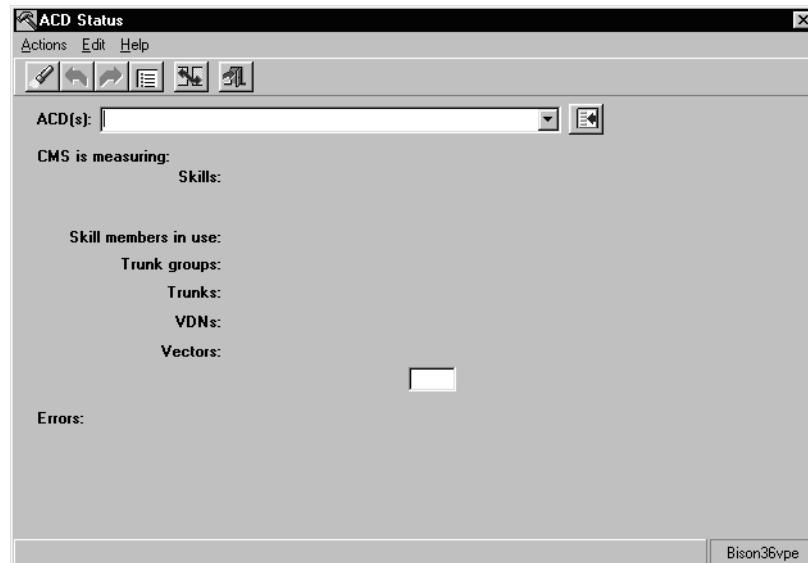
4. Select **OK**.

Supervisor displays the **ACD Status** window.

If your MultiVantage system does not have EAS, *Supervisor* displays the following window:



If your MultiVantage has EAS, *Supervisor* displays the following window:



For additional information on the fields in the **ACD Status** window, see [Description of the ACD Status window – with EAS](#) on page 602 and [Description of the ACD Status window – without EAS](#) on page 603.

5. Perform one of the following steps to enter information in the **ACD(s):** field:

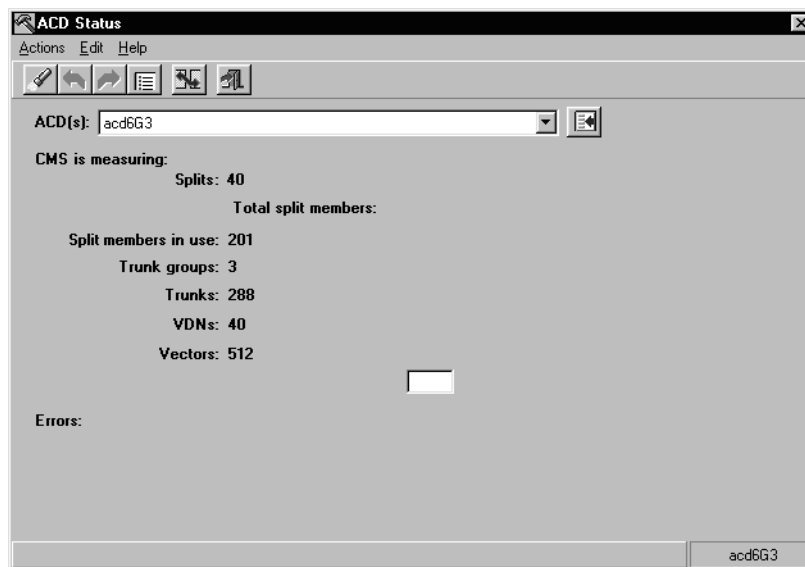
- Enter the name or number of the ACD directly into the field.
- Use the history list to select an ACD.
- Use the Browse button to select an ACD.

Note:

You can also select an ACD Group which will return all the members of that group.

6. From the **Actions** menu, select **Find one**.

Supervisor displays the **ACD Status** window for the selected ACD.

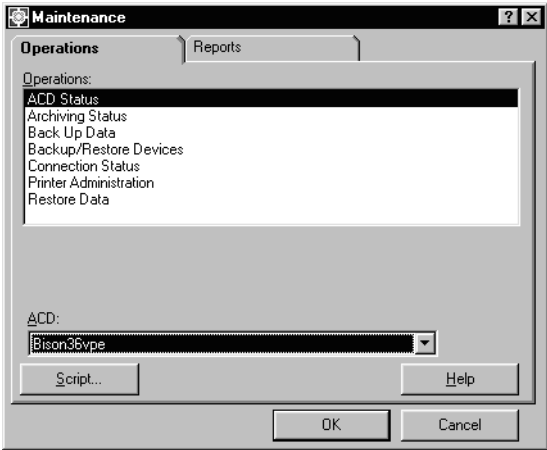


If you selected an ACD Group, the first member of the group is displayed. View any other member ACDs by using the **Next** and **Previous** buttons.

Listing ACD status

To list the status of all ACDs:

- 1. From the Controller window, select **Tools > Maintenance**.
*Supervisor displays the **Maintenance** window.*



- 2. Select the **Operations** tab.
- 3. Highlight **ACD Status** in the **Operations:** list.
- 4. Select **OK**.

*Supervisor displays the **ACD Status** window.*

- 5. From the **Edit** menu, select **Clear all**.
- 6. From the **Actions** menu select **List all**.

*Supervisor displays the **ACD Status - List All** window.*

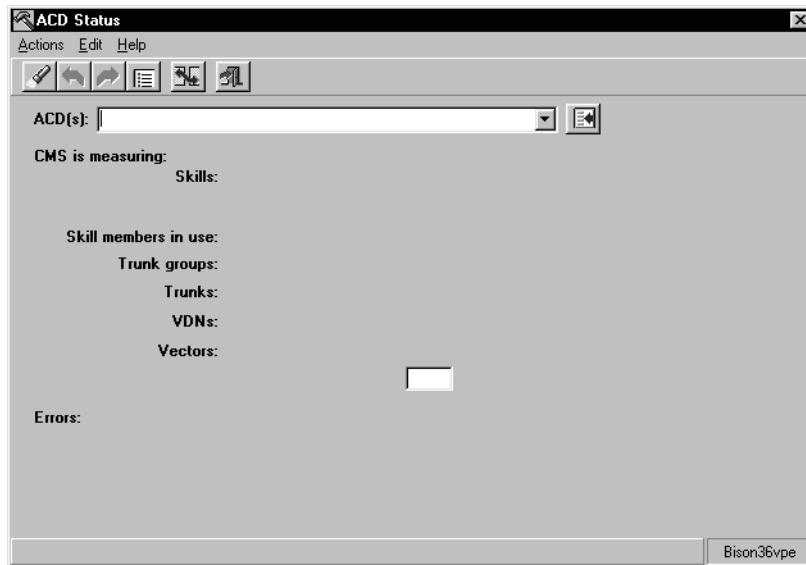
The screenshot shows a window titled 'ACD Status - List All' with a menu bar (Actions, Edit, Help) and a table of data. The table has columns: ACD, Splits/ Skills, Members, Members In Use, Trunk Grps, Trunks, VDNs, and Vectors. Three rows of data are visible, corresponding to the ACDs listed in the screenshot below the table.

ACD	Splits/ Skills	Members	Members In Use	Trunk Grps	Trunks	VDNs	Vectors
ccqadadi22	40		201	3	288	40	512
ccqadadi21	20		480	3	288	16	512
Bull_R@vpe	213		190	8	212	16396	999

3 matches found; permitted ones displayed

Description of the ACD Status window – with EAS

Field descriptions

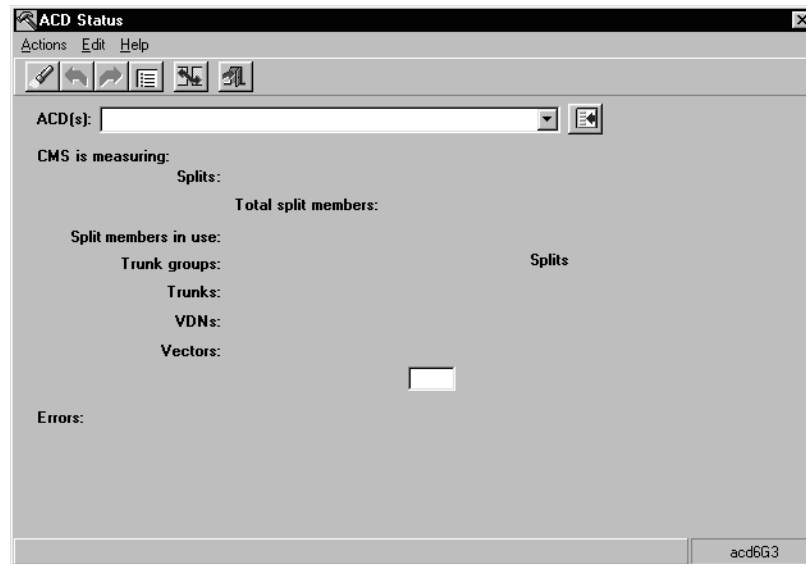


The following table provides the descriptions of the fields on the **ACD Status** window where Expert Agent Selection (EAS) is installed:

Field	Description
Skills	The skills measured by <i>CMS</i> .
Skill members in use	The agent/skill pairs logged in at the time the ACD Status window was opened.
Trunk groups	The trunk groups measured by <i>CMS</i> .
Trunks	The trunks measured by <i>CMS</i> . Unmeasured trunks are not included.
VDNs	The VDNs measured on the selected ACD.
Vectors	The vectors available for use in the selected ACD.
Errors	The errors encountered by the ACD.

Description of the ACD Status window – without EAS

Field descriptions



The following table provides the descriptions of the fields on the **ACD Status** window where Expert Agent Selection (EAS) is not installed:

Field	Description
CMS is measuring	The current value of each of the following items.
Splits	The splits measured by <i>CMS</i> .
Total split members	The agent/split pairs logged in at the time the ACD Status window was opened.
Trunk groups	The trunk groups measured by <i>CMS</i> .
Trunks	The trunks measured by <i>CMS</i> . Unmeasured trunks are not included.
VDNs	The VDNs measured on the ACD.
Vectors	The vectors available for use in the selected ACD.
Measured splits	The number of measured splits in a selected ACD.
Errors	Errors encountered by the ACD.

Requesting ACD translations

The ACD translation request was used to manually synchronize the measure contact center entities from an ACD to the *CMS* server.



Important:

This functionality was available for Generic 2 and System 85 switches and is no longer needed when your *CMS* server is connected to a MultiVantage system. ACD translations are downloaded automatically when changes are made to measured contact center entities.



Important:

If you request an ACD translation, contact center data is interrupted on the MultiVantage system and can result in inaccurate reports.

Archiving status

Use the **Archiving Status** window to display the status, date, and time of the last archive for interval, daily, weekly, and monthly data. This information can help you decide when to turn off data collection or change your archiving times to minimize data loss.

This information can help you decide when to turn off data collection or change your archiving times without losing data.

Contents

This section contains the following topics:

- [Viewing the archiving status of a single ACD](#) on page 606
- [Viewing the archiving status of all ACDs](#) on page 608
- [Description of the Archiving Status - List All window](#) on page 610

Before you begin

The following items should be read and understood before working with the **Archiving Status** window:

- **Archive** indicates that *CMS* is storing interval, daily, weekly, and monthly data in the appropriate database tables.
- The three archive status indications are:
 - **Finished** — The last archive has been completed
 - **Running** — The archive is currently running
 - **Not run** — The archive has never run

Permissions

You need *read* permission for the **Maintenance** subsystem to view the **Archiving Status** window.

Viewing the archiving status of a single ACD

Steps

To view the archiving status of a single ACD:

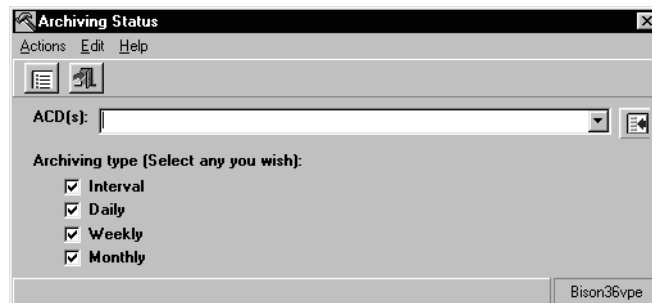
1. From the Controller window, select **Tools > Maintenance**.

Supervisor displays the **Maintenance** window.



2. Select the **Operations** tab.
3. Select **Archiving Status** in the **Operations:** list.
4. Select **OK**.

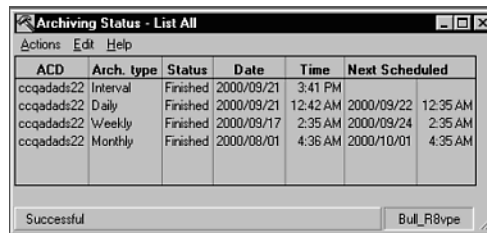
Supervisor displays the **Archiving Status** window.



5. Perform one of the following steps to enter information in the **ACD(s):** field:
 - Enter the name or number of the ACD directly into the field.
 - Use the history list to select an ACD.
 - Use the Browse button to select an ACD.

6. In the **Archiving type (Select any you wish)**: check boxes, deselect the archives you do not want to view. If you want to view all archive types, leave the check boxes as check marked and proceed to the next step.
7. From the **Actions** menu, select **List all**.

Supervisor displays the **Archiving Status - List All** window.



ACD	Arch. type	Status	Date	Time	Next Scheduled
coqadads22	Interval	Finished	2000/09/21	3:41 PM	
coqadads22	Daily	Finished	2000/09/21	12:42 AM	2000/09/22 12:35 AM
coqadads22	Weekly	Finished	2000/09/17	2:35 AM	2000/09/24 2:35 AM
coqadads22	Monthly	Finished	2000/08/01	4:36 AM	2000/10/01 4:35 AM

Successful Bull_R8type

For more detailed information about the **Archiving Status - List All** window, see [Description of the Archiving Status - List All window](#) on page 610.

Note:

It is also possible to view the archiving status of all members of a single ACD Group using this procedure. Instead of the name or number of a single ACD, enter the name or number of the ACD Group in the **ACD:** field.

Viewing the archiving status of all ACDs

Steps

To view the archiving status of all ACDs:

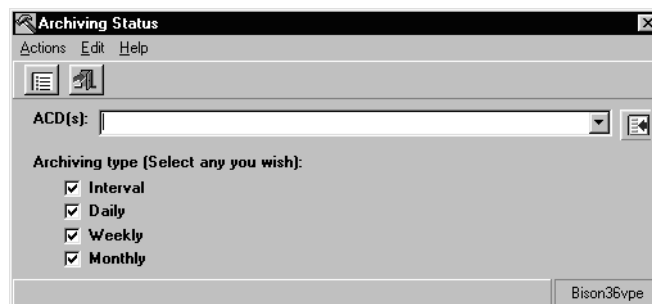
1. From the Controller window, select **Tools > Maintenance**.

*Supervisor displays the **Maintenance** window.*



2. Select the **Operations** tab.
3. Select **Archiving Status** in the **Operations:** list.
4. Select **OK**.

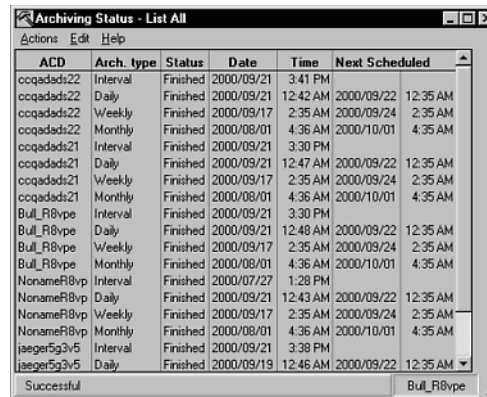
*Supervisor displays the **Archiving Status** window.*



5. If the **ACD(s):** field is not clear; go to the **Edit** menu, and select **Clear all**.
6. Select the type of archives you want to view in the **Archiving type:** check boxes.

7. From the **Actions** menu, select **List all**.

Supervisor displays the **Archiving Status - List All** window.



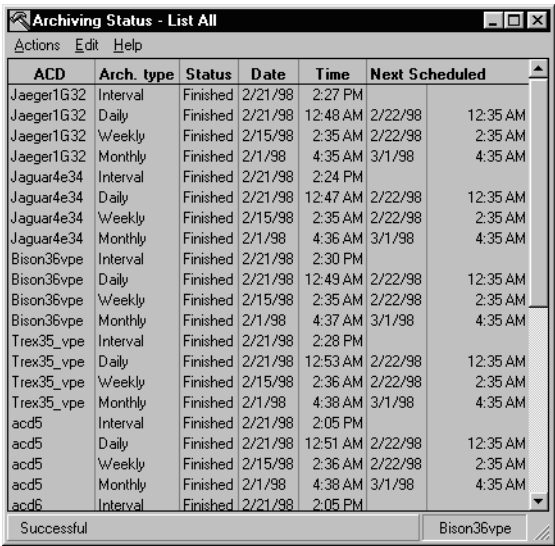
The screenshot shows a window titled "Archiving Status - List All" with a menu bar (Actions, Edit, Help) and a table of archiving tasks. The table has columns: ACD, Arch. type, Status, Date, Time, and Next Scheduled. The tasks listed include various ACDs like ccqadads22, ccqadads21, Bull_R8vpe, NonameR8vp, and jaeger5g3v5, with their respective archiving types (Interval, Daily, Weekly, Monthly), status (Finished), and scheduled dates and times.

ACD	Arch. type	Status	Date	Time	Next Scheduled
ccqadads22	Interval	Finished	2000/09/21	3:41 PM	
ccqadads22	Daily	Finished	2000/09/21	12:42 AM	2000/09/22 12:35 AM
ccqadads22	Weekly	Finished	2000/09/17	2:35 AM	2000/09/24 2:35 AM
ccqadads22	Monthly	Finished	2000/08/01	4:36 AM	2000/10/01 4:35 AM
ccqadads21	Interval	Finished	2000/09/21	3:30 PM	
ccqadads21	Daily	Finished	2000/09/21	12:47 AM	2000/09/22 12:35 AM
ccqadads21	Weekly	Finished	2000/09/17	2:35 AM	2000/09/24 2:35 AM
ccqadads21	Monthly	Finished	2000/08/01	4:36 AM	2000/10/01 4:35 AM
Bull_R8vpe	Interval	Finished	2000/09/21	3:30 PM	
Bull_R8vpe	Daily	Finished	2000/09/21	12:48 AM	2000/09/22 12:35 AM
Bull_R8vpe	Weekly	Finished	2000/09/17	2:35 AM	2000/09/24 2:35 AM
Bull_R8vpe	Monthly	Finished	2000/08/01	4:36 AM	2000/10/01 4:35 AM
NonameR8vp	Interval	Finished	2000/07/27	1:28 PM	
NonameR8vp	Daily	Finished	2000/09/21	12:43 AM	2000/09/22 12:35 AM
NonameR8vp	Weekly	Finished	2000/09/17	2:35 AM	2000/09/24 2:35 AM
NonameR8vp	Monthly	Finished	2000/08/01	4:36 AM	2000/10/01 4:35 AM
jaeger5g3v5	Interval	Finished	2000/09/21	3:38 PM	
jaeger5g3v5	Daily	Finished	2000/09/19	12:46 AM	2000/09/22 12:35 AM

Successful Bull_R8vpe

For more detailed information about the **Archiving Status - List All** window, see [Description of the Archiving Status - List All window](#) on page 610.

Description of the Archiving Status - List All window



The screenshot shows a window titled "Archiving Status - List All" with a menu bar (Actions, Edit, Help) and a table. The table has columns: ACD, Arch. type, Status, Date, Time, and Next Scheduled. The data is as follows:

ACD	Arch. type	Status	Date	Time	Next Scheduled
Jaeger1G32	Interval	Finished	2/21/98	2:27 PM	
Jaeger1G32	Daily	Finished	2/21/98	12:48 AM	2/22/98 12:35 AM
Jaeger1G32	Weekly	Finished	2/15/98	2:35 AM	2/22/98 2:35 AM
Jaeger1G32	Monthly	Finished	2/1/98	4:35 AM	3/1/98 4:35 AM
Jaguar4e34	Interval	Finished	2/21/98	2:24 PM	
Jaguar4e34	Daily	Finished	2/21/98	12:47 AM	2/22/98 12:35 AM
Jaguar4e34	Weekly	Finished	2/15/98	2:35 AM	2/22/98 2:35 AM
Jaguar4e34	Monthly	Finished	2/1/98	4:36 AM	3/1/98 4:35 AM
Bison36vpe	Interval	Finished	2/21/98	2:30 PM	
Bison36vpe	Daily	Finished	2/21/98	12:49 AM	2/22/98 12:35 AM
Bison36vpe	Weekly	Finished	2/15/98	2:35 AM	2/22/98 2:35 AM
Bison36vpe	Monthly	Finished	2/1/98	4:37 AM	3/1/98 4:35 AM
Trex35_vpe	Interval	Finished	2/21/98	2:28 PM	
Trex35_vpe	Daily	Finished	2/21/98	12:53 AM	2/22/98 12:35 AM
Trex35_vpe	Weekly	Finished	2/15/98	2:36 AM	2/22/98 2:35 AM
Trex35_vpe	Monthly	Finished	2/1/98	4:38 AM	3/1/98 4:35 AM
acd5	Interval	Finished	2/21/98	2:05 PM	
acd5	Daily	Finished	2/21/98	12:51 AM	2/22/98 12:35 AM
acd5	Weekly	Finished	2/15/98	2:36 AM	2/22/98 2:35 AM
acd5	Monthly	Finished	2/1/98	4:38 AM	3/1/98 4:35 AM
acd6	Interval	Finished	2/21/98	2:05 PM	

At the bottom, there is a status bar showing "Successful" and "Bison36vpe".

Field descriptions

The following table lists the fields and the associated descriptions for the **Archiving Status - List All** window:

Field	Description
Status	The archiving status of the ACD.
Date	The date the last archive completed for the ACD.
Time	The time the last archive completed for the ACD.
Next scheduled	The date and time of the next-scheduled archive. Dates and times will not appear for the Interval archiving. Interval archives occur at the end of each interval: 15, 30, or 60 minutes.

Backup/restore devices

Use the **Backup/Restore Devices** window to assign a name and description to a full path name for a device. The device name is used for data backup, data migration, data restore, and for loading a pseudo-ACD.

The *LAN Backup* feature of CMS is not available through the *Supervisor* interface. For more information regarding this feature, see the *Avaya CMS R3V11 LAN Backup User Guide* (585-215-715)

Contents

This section contains the following topics:

- [Viewing a backup/restore device](#) on page 612
- [Listing all backup/restore devices](#) on page 614
- [Adding a backup/restore device](#) on page 616
- [Modifying a backup/restore device](#) on page 618
- [Deleting a backup/restore device](#) on page 620

Permissions

Depending on the procedure you wish to perform, you need the following permissions:

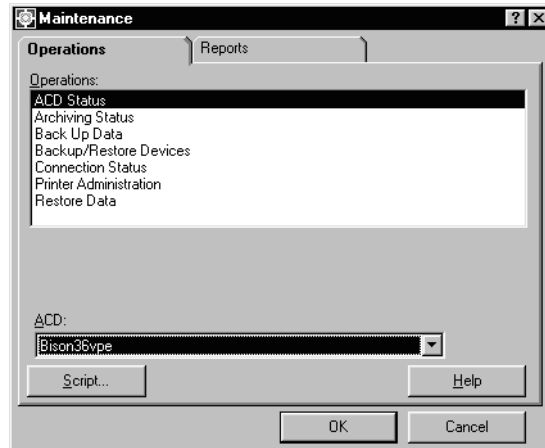
- You need *read* permission for the **Maintenance** subsystem to view the **Backup/Restore Devices** window.
- You need *write* permission for the **Maintenance** subsystem to add, delete or modify any backup/restore devices.

Viewing a backup/restore device

To view a backup/restore device:

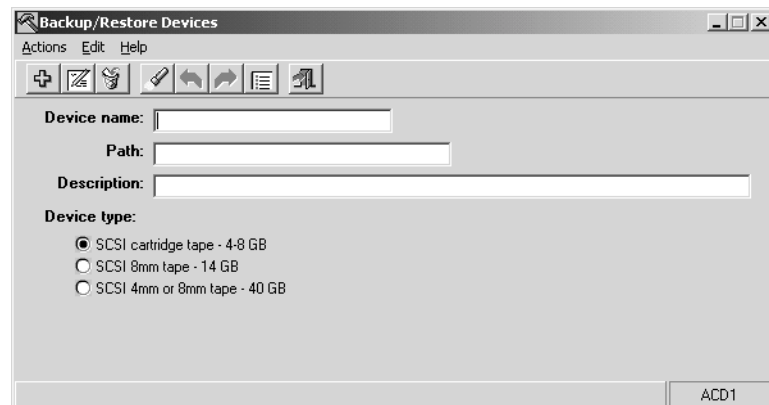
1. From the Controller window, select **Tools > Maintenance**.

*Supervisor displays the **Maintenance** window.*



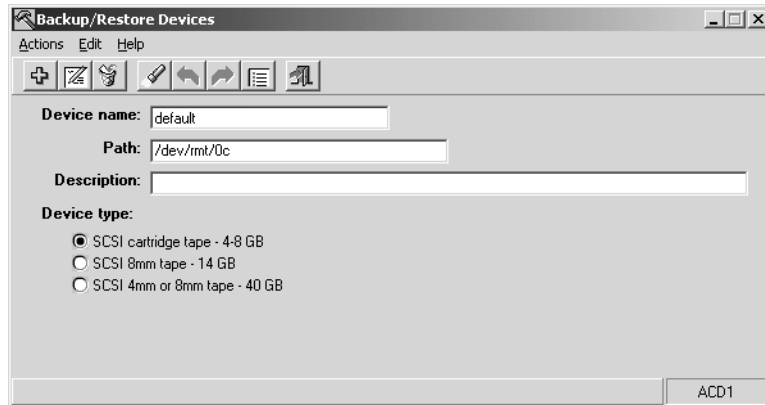
2. Select the **Operations** tab.
3. Select **Backup/Restore Devices** in the **Operations:** list.
4. Select **OK**.

*Supervisor displays the **Backup/Restore Devices** window.*



5. From the **Actions** menu, select **Find one**.

Supervisor displays the information for the first device.



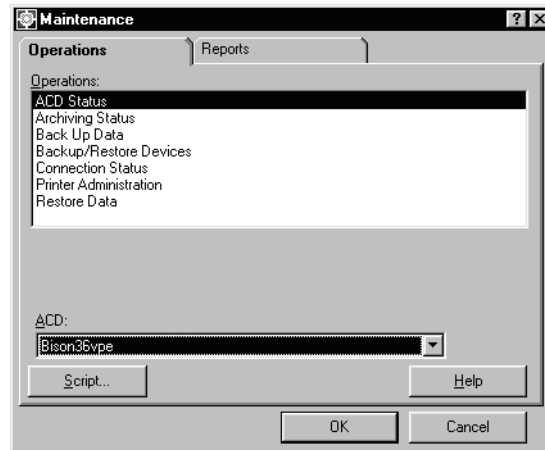
6. If more than one match is found, go to the **Actions** menu, and select **Next**. Repeat this step until all devices have been displayed.

Listing all backup/restore devices

To list all backup/restore devices defined on the CMS server:

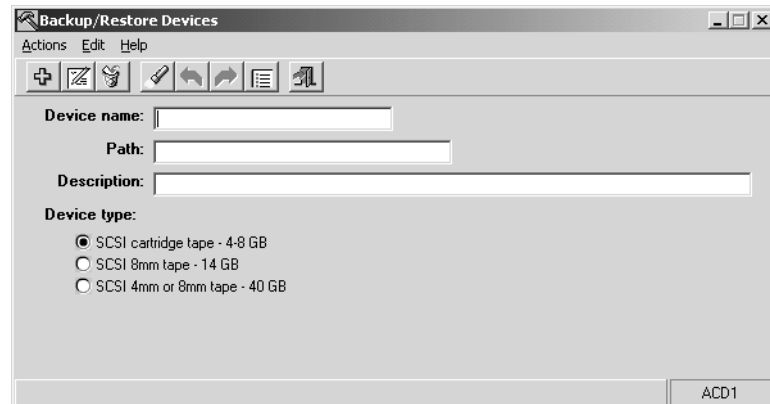
1. From the Controller window, select **Tools > Maintenance**.

*Supervisor displays the **Maintenance** window.*



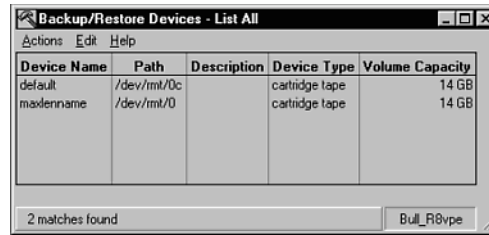
2. Select the **Operations** tab.
3. Select **Backup/Restore Devices** in the **Operations:** list.
4. Select **OK**.

*Supervisor displays the **Backup/Restore Devices** window.*



5. From the **Actions** menu, select **List all**.

Supervisor displays a list of all devices.



The screenshot shows a window titled "Backup/Restore Devices - List All" with a menu bar containing "Actions", "Edit", and "Help". Below the menu bar is a table with five columns: "Device Name", "Path", "Description", "Device Type", and "Volume Capacity". The table contains two rows of data. Below the table, a status bar indicates "2 matches found" and a button labeled "Build_R8vpe" is visible.

Device Name	Path	Description	Device Type	Volume Capacity
default	/dev/mt/0c		cartridge tape	14 GB
maxlenname	/dev/mt/0		cartridge tape	14 GB

2 matches found

Build_R8vpe

Adding a backup/restore device

To add a backup/restore device to the CMS server:

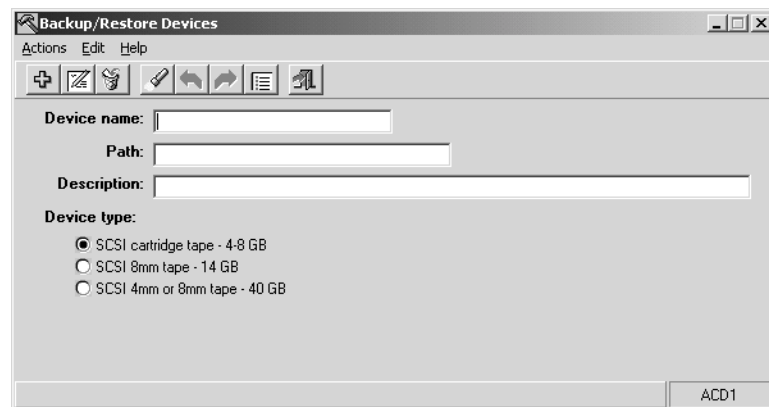
1. From the Controller window, select **Tools > Maintenance**.

*Supervisor displays the **Maintenance** window.*



2. Select the **Operations** tab.
3. Select **Backup/Restore Devices** in the **Operations:** list.
4. Select **OK**.

*Supervisor displays the **Backup/Restore Devices** window.*



5. In the **Device name:** field, enter the name of the backup/restore device.

If you want to refer to your backup/restore device as ddrive1, enter **ddrive1** in the **Device name:** field.

6. In the **Path:** field, enter the full Solaris system path to access the device.

See the *Accessing devices* section in your *Solaris System Administrator's Guide* for more information about devices and paths.

7. In the **Description:** field, enter any additional information to help identify the device.

8. In the **Device type:** option list, select the correct tape capacity for your backup/restore device.

Selecting the correct capacity tape allows the system to estimate the number of tapes that will be needed to perform a full backup to the device.

9. From the **Actions** menu, select **Add**.

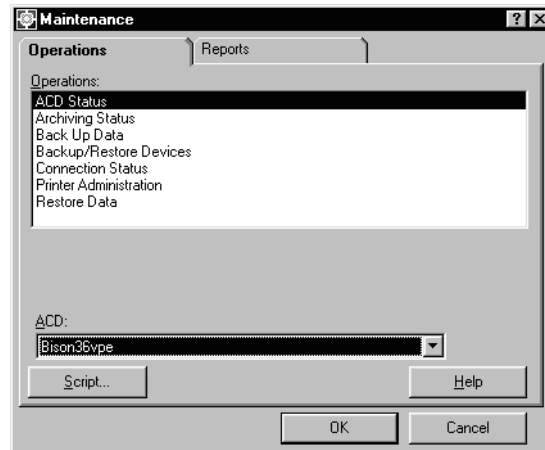
The device is defined through *CMS* and can be used for backup and restore operations.

Modifying a backup/restore device

To modify the definition of a backup/restore device on the CMS server:

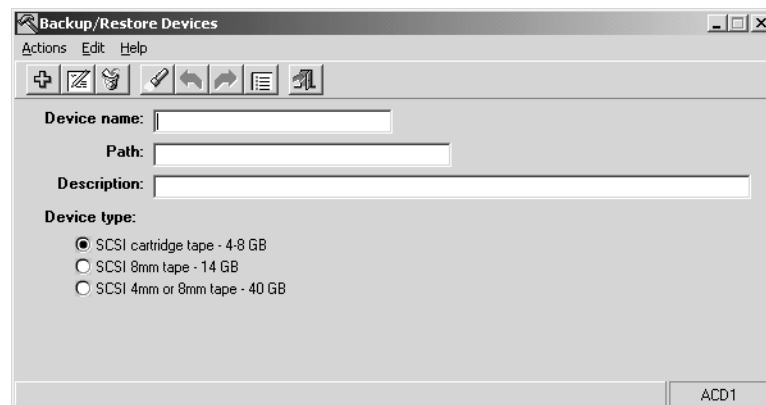
1. From the Controller window, select **Tools > Maintenance**.

*Supervisor displays the **Maintenance** window.*



2. Select the **Operations** tab.
3. Select **Backup/Restore Devices** in the **Operations:** list.
4. Select **OK**.

*Supervisor displays the **Backup/Restore Devices** window.*



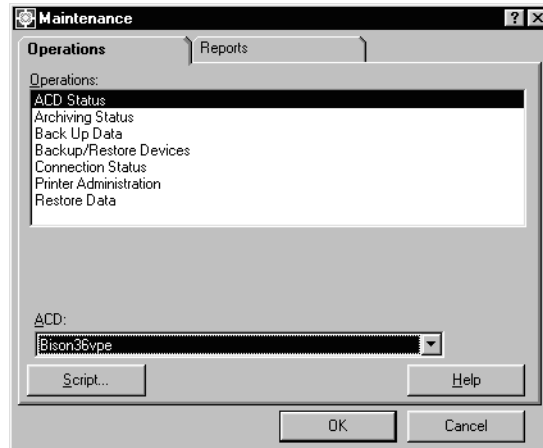
5. Perform one of the following procedures to select the correct backup/restore device:
 - If you know the name of the device, enter the name of the device in the **Device name:** field and then press the **Enter** key.
 - If you do not know the name of the device, perform the following steps:
 - a. From the **Actions** menu, select **Find one**.
 - b. If more than one match is found, select **Actions > Next**. Repeat this step until the device you want to modify is displayed in the dialog box.
 6. Enter the new information in the fields that require modification.
 7. From the **Actions** menu, select **Modify**.
- The changes made to the device definition are saved.

Deleting a backup/restore device

To delete the definition for a backup/restore device on the CMS server:

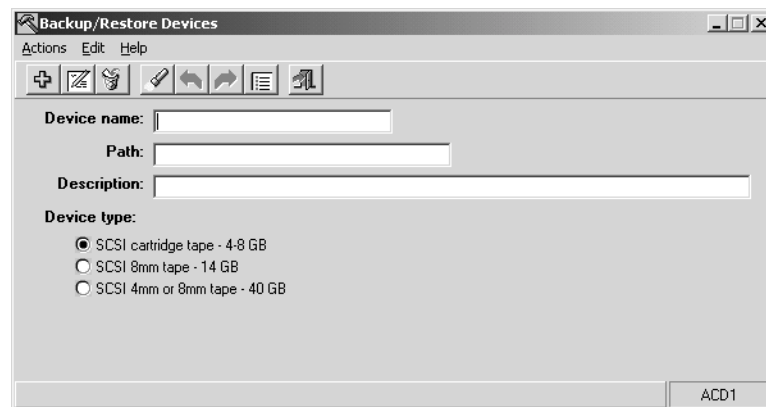
1. From the Controller window, select **Tools > Maintenance**.

*Supervisor displays the **Maintenance** window.*



2. Select the **Operations** tab.
3. Select **Backup/Restore Devices** in the **Operations:** list.
4. Select **OK**.

*Supervisor displays the **Backup/Restore Devices** window.*



5. Perform one of the following procedures to select the correct backup/restore device:
 - If you know the name of the device, enter the name of the device in the **Device name:** field and then press the **Enter** key.
 - If you do not know the name of the device, perform the following steps:
 - a. From the **Actions** menu, select **Find one**.
 - b. If more than one match is found, go to the **Actions** menu, and select **Next**. Repeat this step until the device you want to delete is displayed in the dialog box.
6. From the **Actions** menu, select **Delete**.

The specified backup/restore device definition is deleted from the *CMS* server.

Data Backup

There are two types of data backup available through *CMS*, *CMSADM* and *Maintenance*.

The *LAN Backup* feature of *CMS* is not available through the *Supervisor* interface. For more information regarding this feature, see the *Avaya CMS R3V11 LAN Backup User Guide* (585-215-715)

Contents

This section contains the following topics:

- [Things to consider when backing up or restoring data](#) on page 626
- [Performing a CMSADM backup](#) on page 629
- [Performing a maintenance backup](#) on page 632
- [Common backup error messages](#) on page 637
- [Labeling the backup volume](#) on page 638
- [Recovery kit](#) on page 639

CMSADM backup

The *CMSADM* backup saves all of the system data on the computer onto a tape.

The *CMSADM* backup includes the following data:

- Solaris system files and programs
- *CMS* programs
- Non-*CMS* customer data placed on the computer

The *CMSADM* backup will *not* save *CMS* database tables. For complete data recovery, both *CMSADM* and maintenance backups are required.

This type of backup is only performed through the *CMS* ASCII interface. A *Supervisor* interface for this type of backup is not available.

Maintenance backup

Maintenance backups are used to archive and restore *CMS* data. If you do not have a backup, data is lost and cannot be recovered in the event of system or disk failure. The frequency of your backups is determined by how much data your contact center is willing to lose.

Through *Supervisor*, you can use the Backup Data operation on the **Maintenance** window to perform full and incremental backups of *CMS* historical and administration data.

Ordering tapes

Use the information in this section to order replacement tapes for Sun computers.

North America orders

The following methods can be used to order tapes from North America:

- E-mail: avayaparts@arrow.com (recommended method for ordering)
- Voice: 1-800-833-3557, 7AM - 6PM, Monday through Friday
- Fax: +1-952-976-7135

Non-North America orders

The following methods can be used to order tapes from outside North America:

- E-mail: avayaparts@arrow.com (recommended method for ordering)
- Voice: +1-631-843-5000, 8AM-5PM EST, Monday through Friday
- Fax: +1-631-843-5040

Part numbers

Use the following part numbers to order blank tapes and cleaning cartridges:

Part Number	Description	Tape Drive
DDS4 cleaning cartridge	DDS4	45382
DDS4 20/40–GB, 4mm	DDS4	40963-1pk
Mammoth 20/40–GB, 8mm	Mammoth 8mm	312629-001
Mammoth cleaning cartridge	Mammoth 8mm	315205-001
SLR5, 4/8–GB, QIC	SLR5	SLR5–8GB
SLR 5 cleaning cartridge	SLR5	5678-2

Things to consider when backing up or restoring data

Avaya recommends that you back up your CMS system data on a monthly basis and you back up your CMS ACD data on a daily basis. The backup tapes should be stored in a safe location, easily retrievable, correctly labeled, and replaced when worn out. Running system backups is no longer service affecting, but the backups will impact the performance of the CMS system. It is recommended that backups be run when CMS system activity is low.

Things to consider when backing up or restoring data presents several factors that will impact the amount of time it takes to backup or restore your data and presents options to reduce backup and restore times.

Factors that impact backup and restore times

The amount of time it takes to back up or restore data depends on the:

- Amount of data – An increase in the amount of data will cause an increase in the amount of time it takes to back up or restore the data. Some factors that will increase the amount of data being stored are:
 - Number of items being measured – CMS R3V9 and later have increased capacities. More data is generated if you measure 100,000 agent skill pairs instead of 10,000.
 - Number of days information is stored – The greater the data storage time, the greater the amount of data that will have to be backed up or restored. When the CMS system reaches a predetermined threshold for data storage, the oldest record is deleted so that the newest record can be stored. Twice the amount of data is stored if you set your data storage for 62 days instead of 31 days.
 - Interval size – Shorter intervals generate more data. A 15 minute interval will generate significantly more data than a 60 minute interval.
- System load – Processes that require a large amount of system resources will slow down the CMS system. Backing up data requires a large amount of system resources. Additional processes that require a large amount of system resources are:
 - Running reports – Running a single large report or multiple smaller reports will use a large amount of system resources.
 - Archiving data – Archiving a large amount of data will use a large amount of system resources.
- Necessity for manually changing backup tapes – If the amount of data exceeds the capacity of a single backup tape, someone must monitor the system and manually load additional tapes. A data backup or restore will not finish unless someone is able to load tapes into the tape device as needed.

The following table provides some examples of how the amount of data and the system load will impact the amount of time it takes to backup your data. You will see some variation in these values depending on your platform type and configuration.

Platform running CMS R3V11	System load (%)	Interval time (minutes)	Agent skill pairs	Data storage (GB)	Data backup time (hours)
Ultra 5	0	30	32,000	41.5	15.75
	30				19.87
Sun Blade 100	0	30	50,000	64.25	21.03
	30				30.76

Reducing tape backup and restore times

If you do not take steps to optimize your CMS backup and restore times, you will begin to experience performance issues. Your CMS system performance will drop if the backup continues to run when contact center activity increases. With the increased CMS capacities that are now available, CMS backups and restores could take much longer to complete than they have in the past. To reduce the amount of time it takes to backup or restore data, you can:

- Select the maximum interval time that will meet your data collection needs.
- Select the minimum data storage times that will meet your data collection needs for all the historical database tables.
- Run reports when the CMS system is not actively backing up or restoring data.
- Schedule routine backups to occur at a time that is different from data archiving.
- Schedule routine backups to occur when CMS system activity is low.
- Reduce the amount of data being stored so only one backup tape is needed to store the data.
- Upgrade your CMS system to a more powerful hardware platform or add additional memory and CPUs.

Alternate methods for backing up and restoring data

If you need a higher capacity process for backing up and restoring your data, you may want to use the Avaya CMS LAN Backup feature. The Avaya CMS LAN Backup feature provides an alternative to the traditional method of backing up and restoring data with a tape device. LAN Backup allows you to back up CMS data and system information over a local area network (LAN) to a storage manager.

Avaya CMS R3V11 LAN Backup User Guide, 585-215-715 provides information about using the CMS LAN backup feature, hardware requirements, software requirements, and support guidelines.

Performing a CMSADM backup

The CMSADM backup should be done at the following times:

- Once a month (This is always the customer's responsibility.)
- After the CMS is provisioned (Never use the original tapes made during provisioning.)
- Before and after the CMS software is upgraded
- After the system has been set up in the factory (performed by factory personnel).

This backup contains the default factory configuration. These tapes should be saved if the system must be reinstalled in the field.



Important:

Use a new set of backup tapes for the monthly CMSADM backup. Do NOT ever use the original sets of factory or provisioning backup tapes.

Before you begin

The following items should be read and understood before beginning to work with tape drives and cartridges on your Sun Microsystems, Inc. *Solaris*® system.

- Verify that you are using the correct tape for the tape drive on your system. Many of the tape cartridges look alike, and using the wrong tape can damage the tape drive mechanism and tape heads.
- Backup tapes can wear out. Be sure to refresh your supply of backup tapes at appropriate intervals.

Permissions

In order to perform a CMSADM backup you need *write* permission for the **Unix (r)** subsystem. Only employees with administrative responsibilities should be given the permissions and passwords.

Steps

1. Log into the *Solaris* system as *root* and open a terminal window.

See [Logging in to CMS from the server console](#) on page 709 for additional information.

2. Verify that the computer is in a *Solaris* multi-user state (2 or 3). To check if you are in the multi-user state, enter:

```
who -r
```

3. Enter the following command and press the **Enter** key:

lp /etc/vfstab

The system prints out the /etc/vfstab file.

The printed output is required if the backup is restored.

4. Enter the following command and press the **Enter** key:

cmsadm

The CMS Administration menu is displayed:

Avaya (R) Call Management System Administration Menu
Select a command from the list below.

- 1) acd_create Define a new ACD
 - 2) acd_remove Remove all administration and data for an ACD
 - 3) backup Filesystem backup
 - 4) pkg_install Install a feature package
 - 5) pkg_remove Remove a feature package
 - 6) run_pkg Turn a feature package on or off
 - 7) run_ids Turn Informix Database on or off
 - 8) run_cms Trun CMS on or off
 - 9) port_admin Administer Modems, Terminals, and Printers
 - 10) passwd_age Set password aging options
- Enter choice (1-10) or q to quit:

5. Enter **3** to select the backup option.

Depending on the configuration of your system, one of the following outputs occurs.

- a. If only one tape drive is available on the system, the program responds:

Please insert the first cartridge tape into
<device name>
Press ENTER when ready or Del to quit: ^?

- b. If more than one tape drive is available for use by the system, the program will display output similar to the following example:

Select the tape drive:
1) <Exabyte EXB-8500 8mm Helical Scan>
2) <Archive QIC-150>
Enter choice (1-2):

6. Enter the appropriate selection from the displayed list.

The program responds:

Please insert the first cartridge tape into
<device name>
Press ENTER when ready or Del to quit: ^?

7. Press the **Enter** key.

The backup process begins.

If more than one tape is required, the program displays the following message:

```
End of medium on "output".
Please remove the current tape, number it,
insert tape number x, and press Enter
```

If you receive the message displayed above, insert the next tape and allow it to rewind. When it is properly positioned, press the **Enter** key.

8. When the backup is completed, the program response varies according to the number of tapes used for the backup:

a. If the number of tapes required is one, the system responds:

```
xxxxxxx blocks
Tape Verification
xxxxxxx blocks
WARNING: A CMS Full Maintenance Backup in addition to this cmsadm backup
must be done to have a complete backup of the system. . . . .
Please label the backup tape(s) with the date and the current CMS version
(r3v11xx.x)
```

b. If the number of tapes required is more than one, the system responds:

```
xxxxxxx blocks
Tape Verification
Insert the first tape
Press Return to proceed :
```

If you receive the message displayed above, insert the first tape used in the backup and press the **Enter** key. Wait for the tape drive light-emitting diode (LED) to stop blinking before you remove the tape. When prompted, repeat this process for any additional tapes generated by the backup process.

The program verifies the backup, and then displays the output shown above.

9. Save the tapes and the `vfstab` printout until a backup restore is performed.

 Important:

Label all tapes with the tape number and the date of the backup. Set the tape write-protect switch to read-only.

Performing a maintenance backup

Since new data is written each day, you should frequently back up this data. Both the full and incremental backups can be scheduled to run automatically on a timetable.

Before you begin

The following items should be read and understood before performing a Maintenance backup:

- A sufficient supply of tapes should be available so that tapes can be rotated. One common plan is to keep seven tapes in stock and recycle them daily. A new tape is used each day of the week, and each week the sequence is repeated.
- Backups run in the background. You can exit the **Backup Data** window without affecting the backup.
- Running backups during archiving may cause performance problems. For best performance, run backups either before or after the archiving process.
- Most systems come equipped with tape drives that can accommodate a full backup on one tape. Incremental backups may not need to be done. Full backups can be scheduled to run every day.



Important:

The maintenance backup does *not* back up the *CMS* software, *Solaris* system files or non-*CMS* customer data on the system. For complete data recovery, both CMSADM and maintenance backups are required. See [Performing a CMSADM backup](#) on page 629 for instructions on how to run a CMSADM backup.

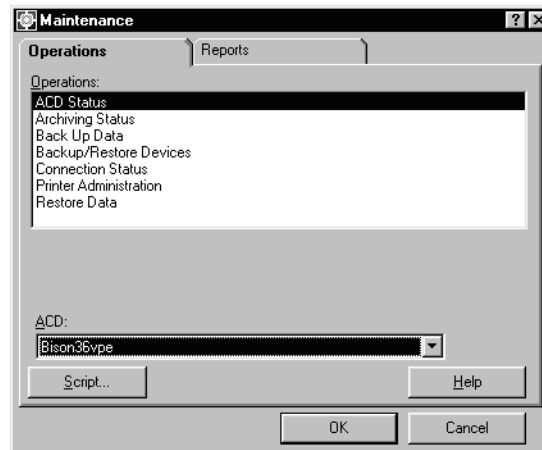
Permissions

To run a Maintenance backup you need *write* permission to the **Maintenance** subsystem.

Steps

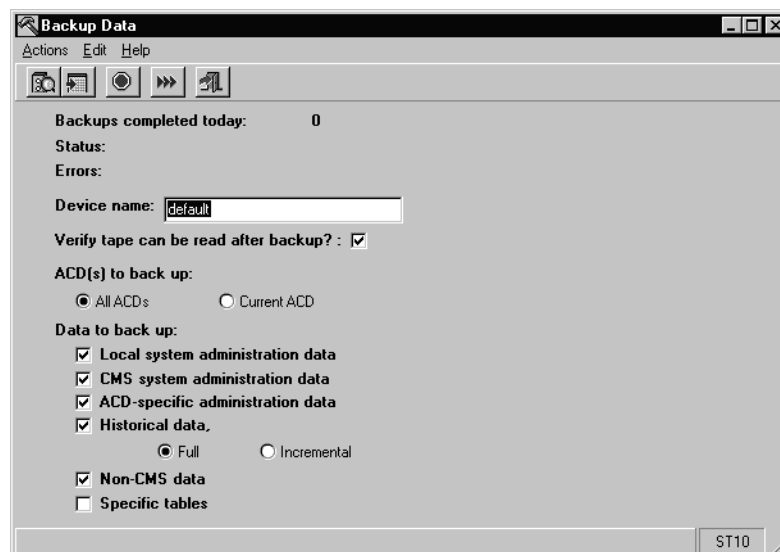
1. From the Controller window, select **Tools > Maintenance**.

Supervisor displays the **Maintenance** window.



2. Select the **Operations** tab.
3. Depending on if you want to back up a single ACD or all ACDs, choose one of the following steps:
 - To back up a single ACD, enter the ACD identification in the **ACD:** field.
 - To back up all ACDs, make sure no ACDs are selected in the **ACD:** field.
4. Select **Backup data** in the **Operations:** list.
5. Select **OK**.

Supervisor displays the **Backup Data** window.



6. In the **Device name:** field, verify that the correct backup device is displayed. If you need to select another device, select **List devices** from the **Actions** menu.
7. Ensure that the **Verify tape can be read after backup?:** check box is selected.

It is recommended that the tape backup be checked for readability. When the tape is being verified, a message displays in the **Status:** field. If the tape cannot be read a message displays in the **Errors:** field. See [Common backup error messages](#) on page 637 for information on additional error messages you may receive.

8. In the **ACD(s) to back up:** field, select one of the following options:
 - The **All ACD(s)** option will back up data from all real ACDs (not pseudo-ACDs).
 - The **Current ACD** option will back up data from the ACD that is displayed in the bottom right corner of the **Backup Data** window.
9. The **Data to back up:** check boxes, by default, are all selected. If you do not want to back up the maximum amount of data, deselect the types of data you do not want backed up.

For an explanation of the **Data to back up:** check box options, see [Description of the Backup Data window](#) on page 635.

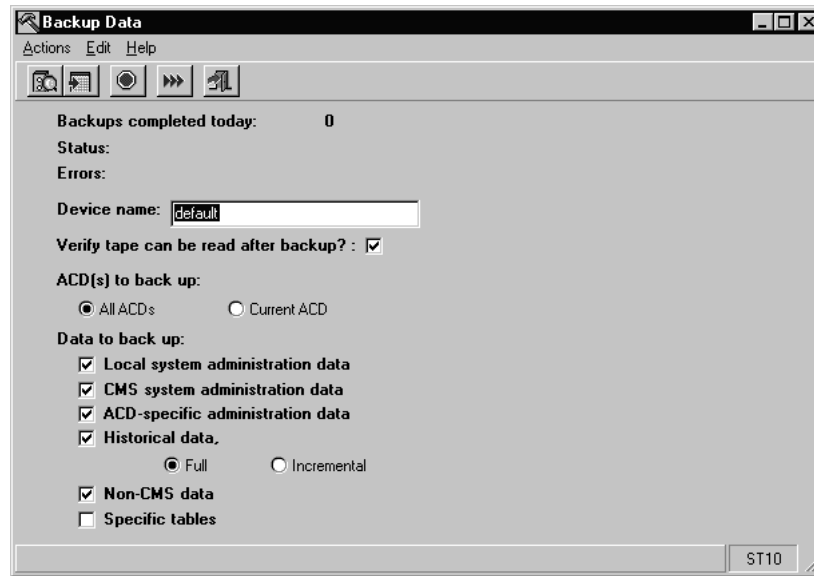
10. From the **Actions** menu, select **Run**.

The backup process begins. When the backup process is complete, *Supervisor* displays an acknowledgement window.

If your backup requires more than one tape, you will receive a message telling you to mount another volume to complete the backup.

11. When the backup completes, remove and label the tape(s).

Description of the Backup Data window



Field descriptions

Fields in the **Backup Data** window are described as follows:

Field	Description
Backups completed today	Shows the number of backups completed for the current day.
Status	Shows the status of the current or most recent backup and what is currently being backed up.
Errors	Shows any errors found in the backup.
Device name	Displays the name of the backup device.
Verify tape can be read after backup?	Check box to request that the data be reread to ensure that the data has been backed up properly.
ACD(s) to back up.	Options to perform a backup of all ACDs or a single ACD.
Data to back up.	Series of check boxes where you can select the types of data you want to back up. See Data to back up descriptions on page 636 for additional information.

Data to back up descriptions

Descriptions of the types of data that may be backed up are described as follows:

Check Box	Description
Local System administration data	Includes IP addresses, port numbers, and other data configured at installation.
CMS System administration data	Includes user permissions, feature access permissions, Main Menu additional data, timetable, printer administration, default values, color choices, and custom report definitions (not the data associated with custom reports).
ACD-specific administration data	Includes Forecast data (if the feature is active), call work code administration data, VDN administration data, data storage allocation data, exception administration data, agent trace data (historical list of agents traced), and ACD-specific Dictionary names.
Historical data	Includes the historical data stored in the <i>CMS</i> database. There are two options for backing up historical data, Full and Incremental Full: includes data for all the time periods in the historical database. You must do a full backup before the first incremental backup. It is recommended that you periodically (for example, once a week) do a full backup of your system. Incremental: includes the <i>CMS</i> data recorded since the last backup (incremental or full) was completed. Only the historical data can be stored incrementally; administration data is stored in full.
Non-CMS data	Includes all data from <i>Informix</i> tables with names that start with c_. The table definitions for non-CMS <i>Informix</i> tables are not backed up, these would be captured by a CMSADM backup.
Specific tables	Allows you to back up data from specific data tables. To backup specific tables, select Actions > Select tables. <i>Supervisor</i> then displays the Backup Data - Select Tables window. The Table name column shows the name of the data table and the Description column shows the type of data in the table. Select the check boxes for the tables you want to back up. Close the window when finished.

Common backup error messages

Common error messages and their solutions are described as follows:

Error	Solution
<i>CMS cannot access the specified device.</i>	Enter a new device name.
<i>The volume mounted is bad (corrupt).</i>	Mount a new volume.
<i>A volume tape is not mounted in the drive.</i>	Mount a volume.
<i>The volume mounted contains CMS data that you might not want to overwrite.</i>	Mount a different volume if you do not want to overwrite the data on the volume in the drive.
<i>The volume mounted is the last backup volume.</i>	You have to mount a different volume. Unless you direct CMS to do so, it does not let you overwrite your last backup.
<i>The volume mounted has errors.</i>	Mount another volume.
<i>A table cannot be backed up.</i>	You must decide if you want to skip the table and continue or cancel the backup.

Labeling the backup volume

After a successful backup, *CMS* automatically generates a label for the backup volumes.

Depending on the circumstances, *CMS* provides the following information:

- An acknowledgement window displays the final backup information. If the backup was scheduled on a timetable, the information is recorded in the Maintenance Error Log.
- An acknowledgement window displays a message indicating when a backup can write to a previously used tape.

Backup information format and interpretation

```
0001 CMS-NNNNNN-NN-LLLL-NN-L-NN
0002 |   |   |   |   |   |
0003 1   2   3   4   5   6   7
```

The following table provides information on the labels of backup tapes:

Part #	Code	Meaning
1	CMS	System name
2	NNNNNN	Year, month and day of the backup (yymmdd)
3	NN	Number of backups for this day
4	LLLL	Type of data backed up: A – ACD-specific administration data and historical data C – custom data H – historical data L – local system administration data M – ACD-specific administration data S – CMS system data X – no backup
5	NN	Number of the ACD (00 means All ACDs were selected on the Back Up window)
6	L	Backup mode (F for Full, I for Incremental)
7	NN	The tape number if this tape was part of a multi-tape backup.

Recovery kit

The recovery kit is composed of the backup media that the Avaya Technical Services Organization will need to restore service to your system if major problems occur. This kit should be stored in a secure location in order to minimize the time your system is out of service.

Recovery kit contents

The Recovery Kit contains the most recent:

- CMSADM backup tape
- Full Maintenance backup tape and any Incremental backup tapes since the latest full backup
- *CMS* Load tape
- Patching CDs and tapes
- All the software packages that were shipped with the *CMS* system.

Restoring data

Use the **Restore Data** window to restore *CMS* data that has been lost due to system failure, disk crashes, or power outages. You can restore all *CMS* data files that you have previously backed up. You can also select which ACDs and *CMS* data to restore.

The **automatic** restore will restore all *CMS* data files from your last backup. Most data is restored by the automatic restore procedure.

The **manual** restore will restore specific *CMS* data files. The manual restore is used only when a select number of database tables need to be restored. A manual restore gives you control over which data is restored.

Contents

This section contains the following topics:

- [Automatic restore](#) on page 643
- [Manual restore](#) on page 645

Before you begin

The following items should be read and understood before attempting to restore data:

- The Data Collection and *CMS* states must be set as noted for the following backups:
 - Local system administration data – Data Collection off; *CMS* Single-user mode
 - *CMS* system administration data – Data Collection on or off; *CMS* Single-user mode
 - ACD system administration data – Data Collection on or off; *CMS* Single-user mode
 - Historical data, Non-*CMS* data, or specific tables – Data Collection on or off; *CMS* Single- or Multi-user mode.
- Data must be backed up before it can be restored. To ensure the safety of your data, you should frequently back up your system.
- The restore procedure is run in the background. The **Status** field on the **Restore Data** window allows you to monitor the status of the restore process as it is performed.
- You can turn *CMS* back to multi-user mode when the **Status** field displays **Restore is complete**.

Permissions

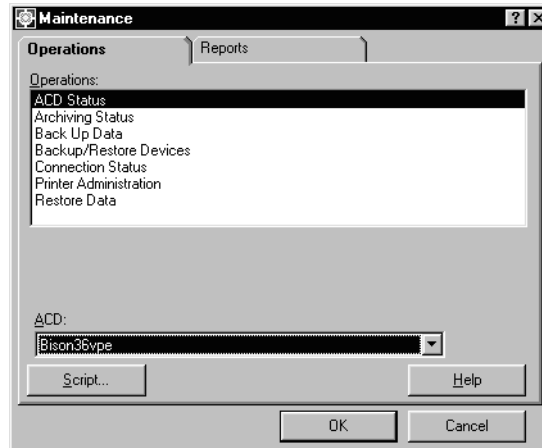
To restore data you need *write* permission for the **Maintenance** subsystem.

Automatic restore

To have CMS automatically restore data from a backup:

1. From the Controller window, select **Tools > Maintenance**.

*Supervisor displays the **Maintenance** window.*



2. Select the **Operations** tab.
3. Select **Restore Data** in the **Operations:** list.

4. Select **OK**.

Supervisor displays the **Restore Data** window.

The screenshot shows the 'Restore Data' window. It includes a menu bar with 'Actions', 'Edit', and 'Help'. A toolbar contains icons for backup, restore, status, and help. The main area has the following fields:
- **Status:** (empty)
- **Errors:** (empty)
- **Device name:** (text box containing 'default')
- **Restore from last backup:** (checkbox, unchecked)
- **Restore historical data from:** (label)
- **Start date:** (text box) and **Start time:** (text box)
- **Stop date:** (text box) and **Stop time:** (text box)
- **ACD[s] to restore:** (radio buttons for 'All ACDs' and 'Current ACD', with 'All ACDs' selected)
- **Data to restore:** (checkboxes for 'Local system administration data', 'CMS system administration data', 'ACD-specific administration data', 'Historical data', 'Non-CMS data', and 'Specific tables', all checked except 'Specific tables')
The bottom right corner shows 'ST13'.

The **Status:** field shows the status of the current restore or a previous restore if one has taken place.

The **Errors:** field will show any errors found during the restore.

5. Check the **Device name:** field to make sure the correct backup/restore device is selected.

If you want to use another backup/restore device, select **Actions > List devices**. Enter the correct backup/restore device name in the **Device name:** field.

This field defaults to the device named during installation.

6. Select the **Restore from last backup:** check box.
7. From the **Actions** menu, select **Run**.

The system notifies you which volumes to mount to restore the data. At the end of every restored volume, the tables that have been fully or partially restored will be displayed.

If the system asks for a tape that you cannot provide, you must cancel the restore process. The restore can be rerun if the tape is found.

Manual restore

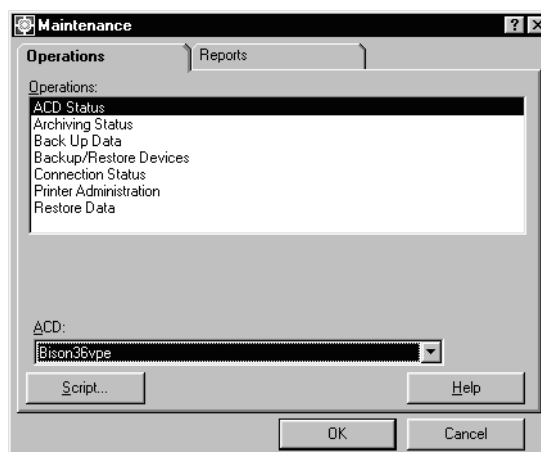
Important:

The manual restore stops when severe errors occur or when you tell it there are no more volumes to restore. Select **Stop** to tell the restore process that you are finished. Do not select **Cancel** since it implies an abnormal termination. Cancelling a restore leaves the data that has already been restored in the tables, which may result in the database being in an abnormal state. You will receive an acknowledgment window asking if you are sure you want to cancel the restore.

To manually restore data:

1. From the Controller window, select **Tools > Maintenance**.

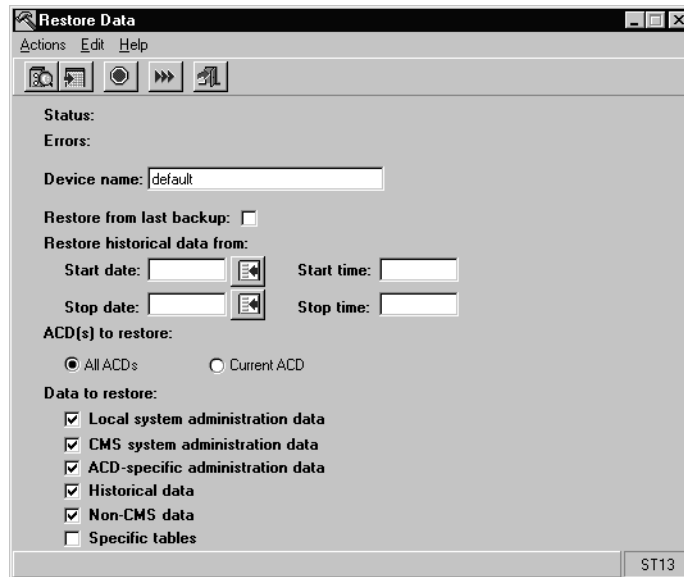
*Supervisor displays the **Maintenance** window.*



2. Select the **Operations** tab.
3. Select **Restore Data** in the **Operations:** list.

4. Select **OK**.

Supervisor displays the **Restore Data** window.



The **Status:** field shows the status of the current restore or a previous restore if one has taken place.

The **Errors:** field will show any errors found during the restore.

5. Check the **Device name:** field to ensure that the correct backup/restore device is selected.

If you want to use another backup/restore device, select **Actions > List devices**. Enter the correct backup/restore device name in the **Device name:** field.

This field defaults to the device named during installation.

! Important:

Do not select the **Restore from last backup:** check box. A manual restore will accept any tape you mount as long as the data on the tape corresponds with the requested data.

6. In the **Start date:** field, enter the oldest date to be included in the restore by using one of the following methods:

- Enter the date in the mm/dd/yy format.
- Use the drop down calendar to select a date.
- Enter the date in relative format; for example, **0** for today and **-1** for yesterday.

7. In the **Start time:** field, enter the time you want to start restoring data. Use the format of **hh:mm XM** when entering the time where **hh** is hours, **mm** is minutes, and **XM** is AM or PM.

If you wanted to restore data starting at 1:15 AM, you would enter **01:15 AM**

If AM or PM is not specified, a 24 hour clock is assumed.

8. In the **Stop date:** field, enter the most recent date to be included in the restore.
9. In the **Stop time:** field, enter the time you want to stop restoring data. Use the format of **hh:mm XM** when entering the time.
10. In the **ACD(s) to restore** options, select either **All ACDs** or **Current ACD**.
11. In the **Data to restore:** group, select the types of data you want to restore.
12. If you do not select **Specific tables**, go to Step 16. Otherwise, select **Actions > Select tables**.

Supervisor displays the **Restore Data - Select tables** window.

If you are performing the **Specific tables** restore, you cannot restore any other information at the same time. This includes:

- Local system administration data – This data can only be restored once. A second attempt will corrupt data.
- CMS system administration data
- ACD system administration data
- Historical data

13. Select the tables you want to restore.
14. From the **Actions** menu, select **Modify**.
15. Close the **Restore Data - Select tables** window to return to the **Restore Data** window.
16. From the **Actions** menu, select **Run**.

Connection status

You can use the **Connection Status** window to monitor the data link between the *CMS* processor and the MultiVantage system. You can also view the current status of the application, session, and connection layers of the link between the MultiVantage system and *CMS*.

Contents

This section contains the following topics:

- [Viewing the connection status of an ACD](#) on page 650
- [Listing the connection status of all ACDs](#) on page 652
- [Description of the Connection Status window](#) on page 654

Permissions

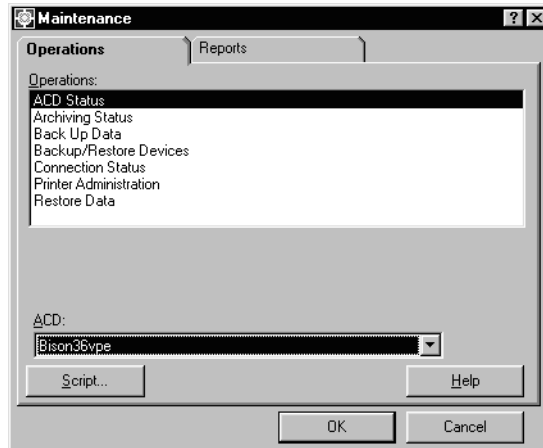
You need *read* permission for the **Maintenance** subsystem to view the **Connection Status** window.

Viewing the connection status of an ACD

To view the connection status of a single ACD:

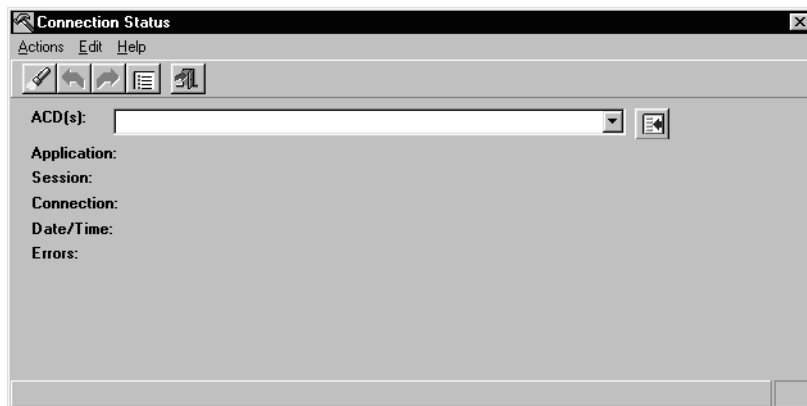
1. From the Controller window, select **Tools > Maintenance**.

*Supervisor displays the **Maintenance** window.*



2. Select the **Operations** tab.
3. Select **Connection Status** in the **Operations:** list.
4. Select **OK**.

*Supervisor displays the **Connection Status** window.*

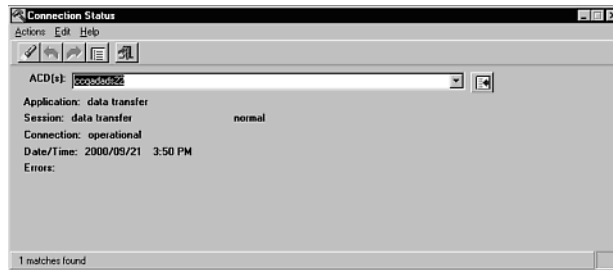


5. In the **ACD(s):** field, enter the name or number of the ACD or ACD Group.

See [Description of the ACD Status window – with EAS](#) on page 602 or [Description of the ACD Status window – without EAS](#) on page 603 for additional information about the fields present on the **Connection Status** window.

6. From the **Actions** menu, select **Find one**.

Supervisor displays the **Connection Status** window for the selected ACD.

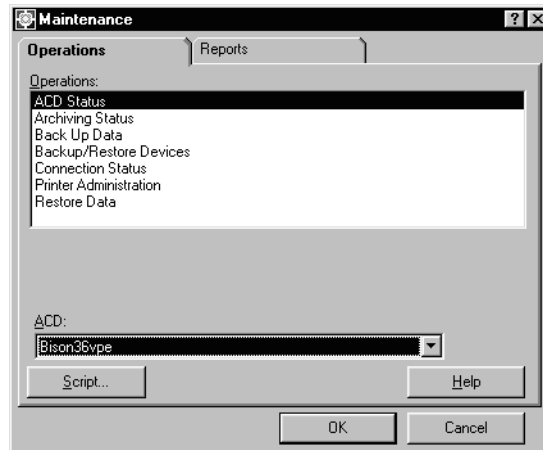


Listing the connection status of all ACDs

To list the connection status of all ACDs:

1. From the Controller window, select **Tools > Maintenance**.

*Supervisor displays the **Maintenance** window.*



2. Select the **Operations** tab.
3. Select **Connection Status** in the **Operations:** list.
4. Select **OK**.

*Supervisor displays the **Connection Status** window.*

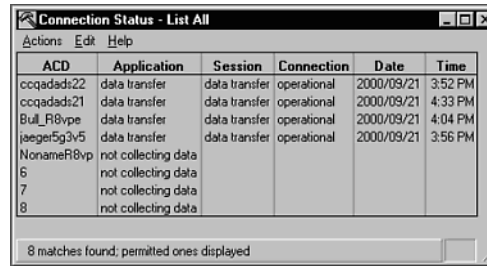


See [Description of the ACD Status window – with EAS](#) on page 602 or [Description of the ACD Status window – without EAS](#) on page 603 for additional information about the **Connection Status** window fields.

5. If the **ACD(s):** field is not clear, select **Edit > Clear all**.

6. From the **Actions** menu select **List all**.

Supervisor displays the **Connection Status - List All** window.

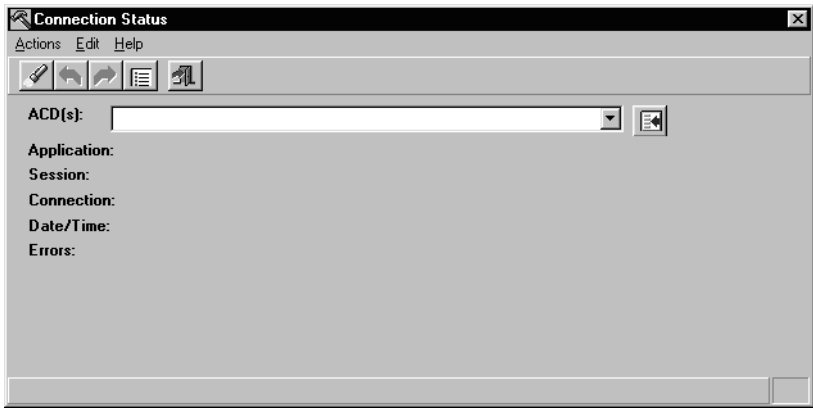


The screenshot shows a window titled "Connection Status - List All" with a menu bar (Actions, Edit, Help) and a table of connection data. The table has six columns: ACD, Application, Session, Connection, Date, and Time. It lists four active connections and three non-collecting connections. A status bar at the bottom indicates "8 matches found; permitted ones displayed".

ACD	Application	Session	Connection	Date	Time
ccqadad:22	data transfer	data transfer	operational	2000/09/21	3:52 PM
ccqadad:21	data transfer	data transfer	operational	2000/09/21	4:33 PM
Bul_R8vpe	data transfer	data transfer	operational	2000/09/21	4:04 PM
jaeger5g3v5	data transfer	data transfer	operational	2000/09/21	3:56 PM
NonameR8vp	not collecting data				
6	not collecting data				
7	not collecting data				
8	not collecting data				

8 matches found; permitted ones displayed

Description of the Connection Status window



Field descriptions

The **Connection Status Window** contains the following fields:

Field	Description	Status Messages
ACD(s)	Enter the number or name of the ACD(s) for which you would like to check the connection status.	

Field	Description	Status Messages
Application	Displays status for the application layer of the link between the MultiVantage system and CMS.	waiting session – The application layer is inactive. This is the state of the application layer when the system is first powered on. translation pumpup – CMS is receiving translations from the MultiVantage system. Translations are needed for CMS to correctly track the ACD calls coming from the switch. data transfer – The application layer can receive and transmit data successfully. not collecting data – Data collection has been turned off. CMS System Setup – The link has gone down. To resume data collection, use the Data Collection window busied out (switch) – The link between CMS and the MultiVantage system has been busied out from the switch side, usually to change switch translations.
Session	Displays status for the session layer of the link between the MultiVantage system and CMS.	quiescent – The session layer is inactive. This is the state of the session layer when the system is first powered on. waiting acceptance – The session layer is waiting for the connection layer to become operational and for the remote session layer to accept the session. data transfer – The session layer can now transmit and receive data from the MultiVantage system.
Connection	Displays status for the connection layer of the link between the MultiVantage system and CMS.	quiescent – Indicates that the connection is inactive. This is the state of the connection when the system is first powered on. out of order – Something is wrong with the connection to the MultiVantage system. For example, the network connection between the MultiVantage system and CMS is currently unavailable. operational – The connection can transmit information physically between the MultiVantage system and CMS. waiting session accept – The link is down.

Maintaining CMS

Field	Description	Status Messages
Date/Time	Displays the date/time for the ACD, unless the link to the ACD is down when <i>CMS</i> is brought up. If this happens, <i>CMS</i> uses the <i>Solaris</i> system time until the link is reestablished.	
Errors	Displays any errors found.	

Administering a printer

Use the **Printer Administration** window to assign a name, description, and options to a printer that can be used by terminals connected to *CMS*. Users of *Supervisor* do not have access to printers assigned through this window but can use printers that are normally used through their Windows-based PC.

Contents

This section contains the following topics:

- [Adding a new printer](#) on page 658
- [Listing all printers](#) on page 660
- [Modifying printer options](#) on page 662
- [Deleting a printer](#) on page 664

Before you begin

- Before you can assign a printer in the **Printer Administration** window, the printer must already be administered in the *Solaris* system. See *Avaya CMS Terminals, Printers, and Modems* for additional information about the *Port Administration Tool*.
- The printer set up as the default printer will receive all terminal requested print jobs, unless otherwise specified by the user.
- If jobs are sent to a printer that is no longer administered, the print job will be sent to the default printer and an error will be logged in the Maintenance Error Log.
- The name of a printer administered in the Printer Administration window can be used by terminal users as the default destination when printing historical reports.

Permissions

Depending on the procedure you want to perform, you will need the following permissions:

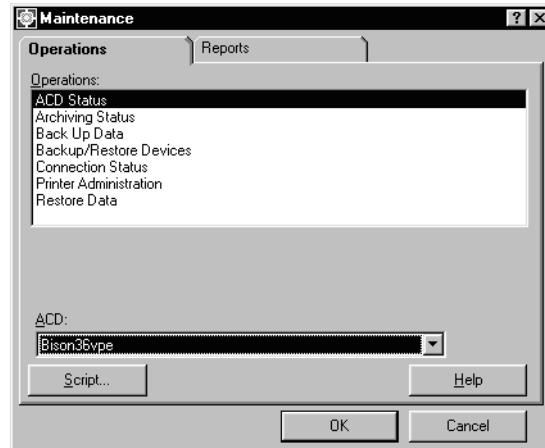
- To view the **Printer Administration** window, you will need *read* permission for the **Maintenance** subsystem.
- To add, delete, or modify the **Printer Administration** window, you will need *write* permission for the **Maintenance** subsystem.

Adding a new printer

To add a new printer to the *CMS* server:

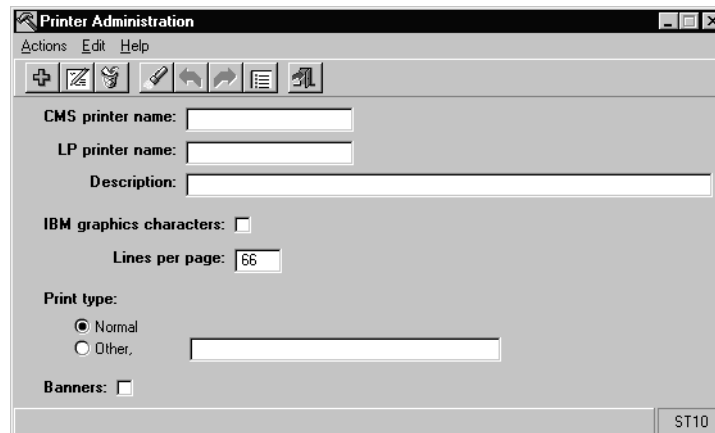
1. From the Controller window, select **Tools > Maintenance**.

Supervisor displays the **Maintenance** window.



2. Select the **Operations** tab.
3. Select **Printer Administration** in the **Operations:** list.
4. Select **OK**.

Supervisor displays the **Printer Administration** window.



5. In the **CMS printer name:** field, enter the name of the new printer.

The name assigned to the printer must be unique from all other installed printers; however, it can be assigned the same name it was given during the *Solaris* administration.

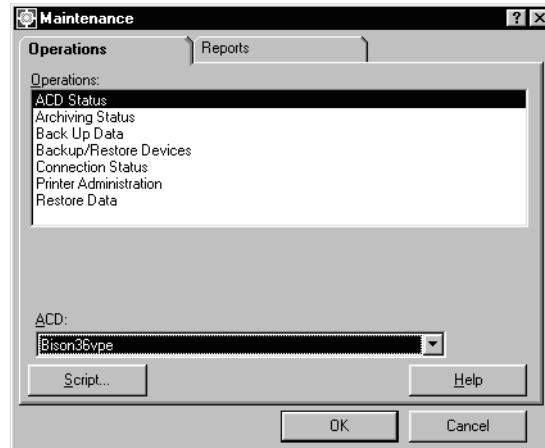
6. In the **LP printer name:** field, enter the name assigned to the printer when it was administered in *Solaris*.
7. In the **Description:** field, enter any additional information to identify the printer.
8. If the printer uses IBM graphic characters, select the **IBM graphic characters:** check box. Otherwise, leave the check box deselected.
9. In the **Lines per page:** field, enter the number of lines that fit on a page.
The default is 66 lines. *CMS* formats reports to correspond to the value in this field.
10. In the **Print type:** options select one of the following choices:
 - Select **Normal** (default setting)
 - Select **Other**. Then, in the corresponding field, enter the specific print type such as pica, elite, or compressed.
11. If you want a banner to be printed for every print job, select the **Banners:** check box.
A banner is a cover sheet that identifies the user who requested the print job.
12. From the **Actions** menu, select **Add**.

Listing all printers

To list all printers defined on the *CMS* server:

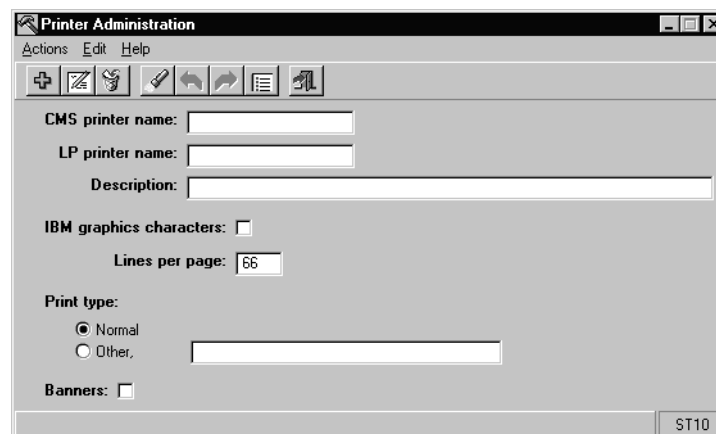
1. From the Controller window, select **Tools > Maintenance**.

Supervisor displays the **Maintenance** window.



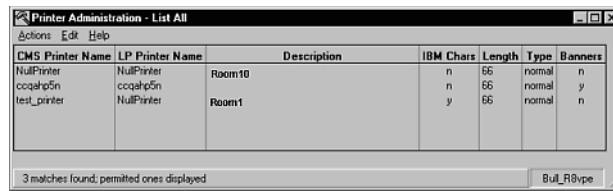
2. Select the **Operations** tab.
3. Select **Printer Administration** in the **Operations:** list.
4. Select **OK**.

Supervisor displays the **Printer Administration** window.



5. From the **Actions** menu, select **List all**.

Supervisor displays the **Printer Administration - List All** window.



The screenshot shows a window titled "Printer Administration - List All" with a menu bar containing "Actions", "Edit", and "Help". Below the menu bar is a table with the following columns: "CMS Printer Name", "LP Printer Name", "Description", "IBM Chars", "Length", "Type", and "Banners". The table contains three rows of data. At the bottom of the window, there is a status bar that reads "3 matches found, permitted ones displayed" and a button labeled "Buil_R8vpe".

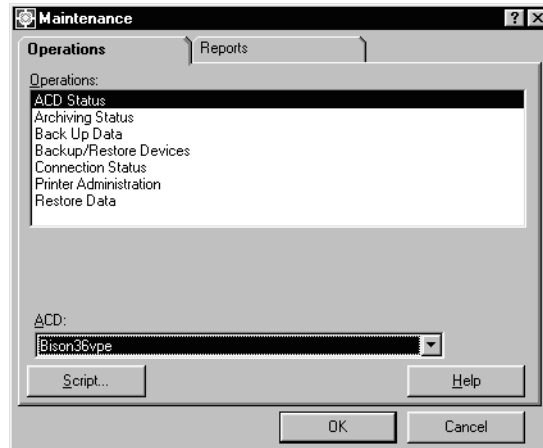
CMS Printer Name	LP Printer Name	Description	IBM Chars	Length	Type	Banners
NullPrinter	NullPrinter	Room10	n	56	normal	n
ccqahp5n	ccqahp5n		n	56	normal	y
test_printer	NullPrinter	Room1	y	56	normal	n

Modifying printer options

To modify the options for a printer currently existing on the CMS server:

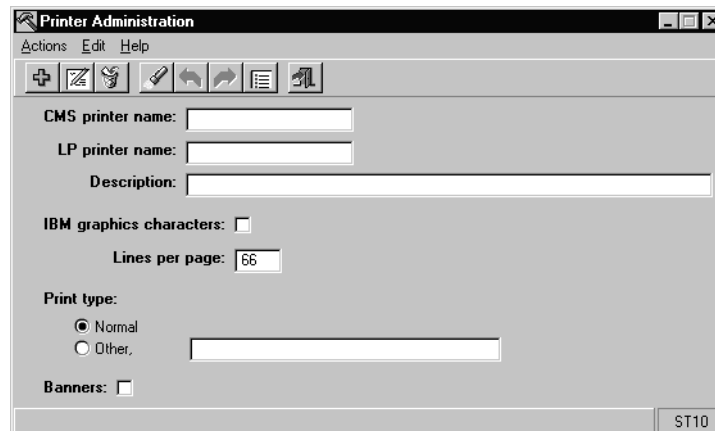
1. From the Controller window, select **Tools > Maintenance**.

*Supervisor displays the **Maintenance** window.*



2. Select the **Operations** tab.
3. Select **Printer Administration** in the **Operations:** list.
4. Select **OK**.

*Supervisor displays the **Printer Administration** window.*



5. Perform one of the following procedures to select the correct printer:
 - If you know the name of the printer, enter the name of the printer in the **CMS printer name:** field, and then press **the Enter key**.
 - If you do not know the name of the printer, perform the following:
 - a. From the **Actions** menu, select **Find one**.
 - b. If more than one match is found, go to the **Actions** menu, and select **Next**. Repeat this step until the printer you want to modify is displayed.
-  **Important:**

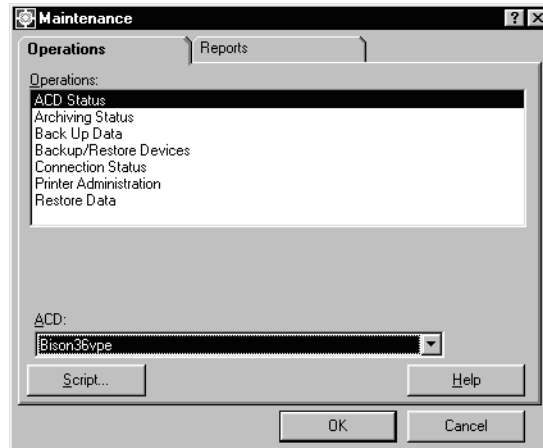
You cannot modify the name of a *CMS* printer. If you want to change a printer name, you must delete the printer and add it again with a new name. See [Deleting a printer](#) on page 664, and [Adding a new printer](#) on page 658 for more information.
6. Make changes to any of the fields in the **Printer Administration** window, except the **CMS printer name:** field
7. From the **Actions** menu, select **Modify**.

Deleting a printer

To delete a printer currently defined on a CMS server:

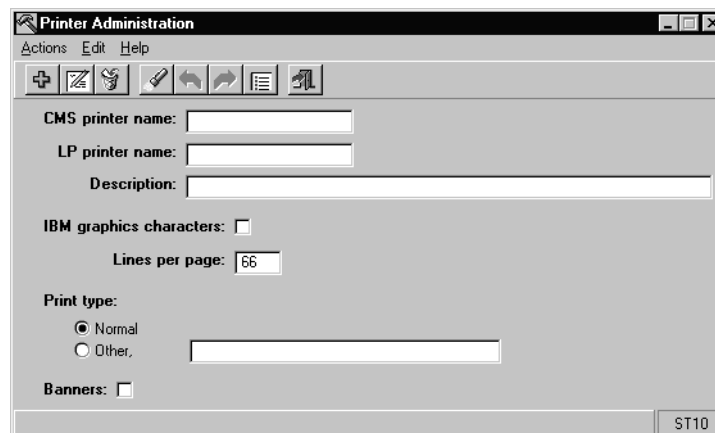
1. From the Controller window, select **Tools > Maintenance**.

*Supervisor displays the **Maintenance** window.*



2. Select the **Operations** tab.
3. Select **Printer Administration** in the **Operations:** list.
4. Select **OK**.

*Supervisor displays the **Printer Administration** window.*



5. Perform one of the following procedures to select the correct printer:
 - If you know the name of the printer, enter the name of the printer in the **CMS printer name:** field, and then press **Enter**.
 - If you do not know the name of the printer, perform the following:
 - a. From the **Actions** menu, select **Find one**.
 - b. If more than one match is found, go to the **Actions** menu, and select **Next**. Repeat this step until the printer you want to delete is displayed.
6. From the **Actions** menu, select **Delete**.

If you try to delete a printer that is assigned to users, you will receive a message asking if you still want to delete the printer.

Users assigned to this printer will not have another printer assigned when it is deleted.

Maintenance Error Log

Use the Maintenance Error Log Report to aid you in working on system problems and to aid Services personnel in clearing problems from your system. The Maintenance Error Log displays a chronological list of warnings, information, and errors detected by *CMS*.

Contents

This section contains the following topics:

- [Running a Maintenance Error Log](#) on page 668
- [Severity of errors](#) on page 670
- [Maintenance Error Log messages](#) on page 671

Before you begin

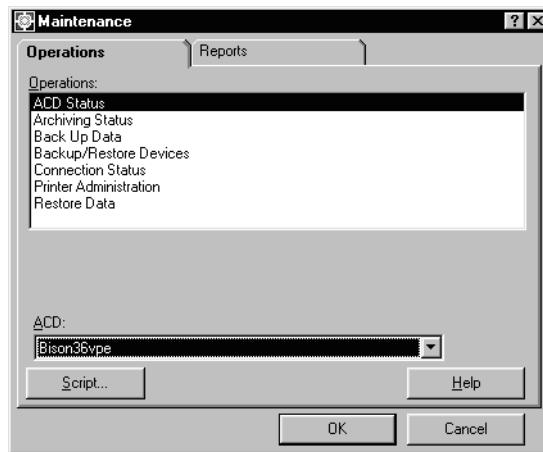
The following items should be read and understood before working with the Maintenance Error Log:

- The Maintenance Error Log can contain 500 entries. When the log reaches 500 records the next record will overwrite the oldest record.
- The entries in the Maintenance Error Log are displayed in chronological order, starting with the most recent entry.
- You can search the log by error severity or by error code
- The results of all archives and backups are written to the Maintenance Error Log.
- If you have *Avaya CMS Forecast*, the results of the **Forecast Manager** are written to the Maintenance Error Log.

Running a Maintenance Error Log

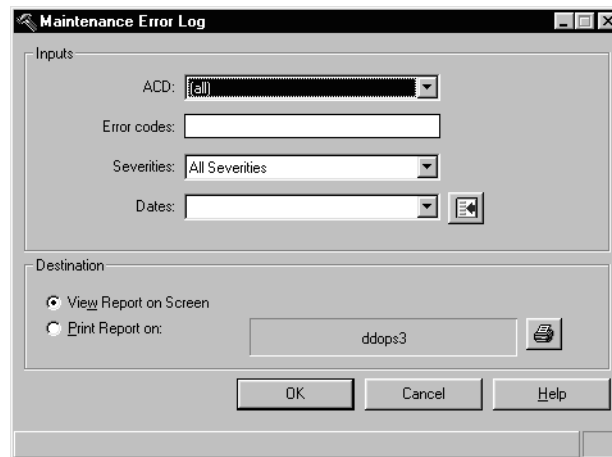
1. From the Controller window, select **Tools > Maintenance**.

Supervisor displays the **Maintenance** window.



2. Select the **Reports** tab.
3. Select **Error Log Report** in the **Reports:** list.
4. Select **OK**.

Supervisor displays the **Maintenance Error Log** window.



5. In the **ACD:** drop down list, enter the ACD on which you want to see an error log or select **All** to include all ACDs. Selecting an ACD Group shows the error logs for only the member ACDs of that group.
6. If the **Error codes:** field is blank, all error codes are displayed in the error log report. If you only want the report to include specific error codes, enter the necessary codes in the **Error codes:** field.

7. In the **Severities:** drop down list, enter the severity of errors you want to see the report or select **All Severities** to include errors of any severity.

See [Severity of errors](#) on page 670 for additional information on error code classifications.

8. In the **Dates:** field, enter the amount of time that the report will include through one of the following methods:

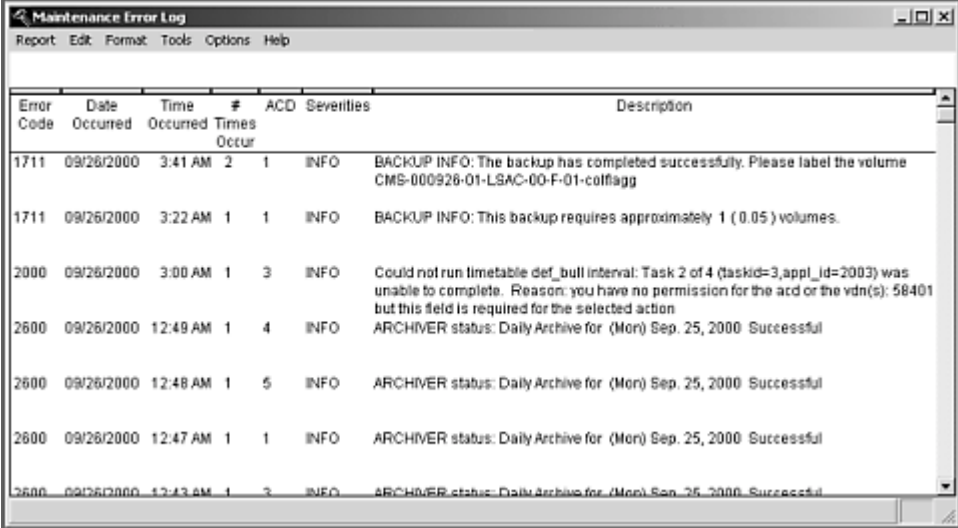
- Enter the date(s) in the MM/DD/YY format.
- Use the history list to select the dates.
- Use the Browse button to select the dates
- Enter the date in relative format; for example, **0** for today, **-1** for yesterday.

9. Select one of the following **Destination:** options:

- To display the Maintenance Error Log on the monitor, select **View Report on Screen**.
- To send the Maintenance Error Log to a printer, select **Print Report**.

10. Select **OK**.

Supervisor displays the Maintenance Error Log Report.



The screenshot shows a window titled "Maintenance Error Log" with a menu bar (Report, Edit, Format, Tools, Options, Help). Below the menu is a table with the following columns: Error Code, Date Occurred, Time Occurred, # Times Occur, ACD, Severities, and Description. The table contains several rows of error messages, including backup completion notices and archiver status reports.

Error Code	Date Occurred	Time Occurred	# Times Occur	ACD	Severities	Description
1711	09/26/2000	3:41 AM	2	1	INFO	BACKUP INFO: The backup has completed successfully. Please label the volume CMS-000926-01-LSAC-00-F-01-collflag
1711	09/26/2000	3:22 AM	1	1	INFO	BACKUP INFO: This backup requires approximately 1 (0.05) volumes.
2000	09/26/2000	3:00 AM	1	3	INFO	Could not run timetable def_bull interval: Task 2 of 4 (taskid=3,appl_id=2003) was unable to complete. Reason: you have no permission for the acd or the vdn(s): 58401 but this field is required for the selected action
2600	09/26/2000	12:49 AM	1	4	INFO	ARCHIVER status: Daily Archive for (Mon) Sep. 25, 2000 Successful
2600	09/26/2000	12:48 AM	1	5	INFO	ARCHIVER status: Daily Archive for (Mon) Sep. 25, 2000 Successful
2600	09/26/2000	12:47 AM	1	1	INFO	ARCHIVER status: Daily Archive for (Mon) Sep. 25, 2000 Successful
2600	09/26/2000	12:43 AM	1	3	INFO	ARCHIVER status: Daily Archive for (Mon) Sep. 25, 2000 Successful

See [Maintenance Error Log messages](#) on page 671 for additional definitions for the possible error messages.

Severity of errors

The following list describes the error classifications in the Maintenance Error Log:

- **ALARM** – This type of entry could cause the system to crash or fail. You must work with Avaya Services to avoid the possibility of system failure.
- **ERROR** – This type of entry needs immediate action. For example, a backup may not be working properly.
- **INFO** – This type of entry does not need immediate action but is listed either to let you know that some aspect of the system is not operating correctly or to indicate the status of an operation. For example, **Successful**.

Maintenance Error Log messages

The Maintenance error codes and related messages are organized by error code number. If any of the solutions do not resolve the problem you are experiencing, contact your CMS services representative. If a reference to a task number is shown in the Maintenance Error Log, give the number to the CMS services personnel.

The following table lists the possible error codes as well as the related information:

Error Code	Message	Reason/Action
500	UNIX error on OPEN, file: <filename>	Could not write a file which is part of a timetable. One or more timetable tasks may be corrupted.
505	UNIX error on WRITE, file: File system may be out of space.	Error in writing the file. Potential file space problem.
505	The following two errors are found together: UNIX error on WRITE, file: SIGPIPE signal caught during printing, print request is incomplete or failed UNIX error on WRITE, file: lp. The user may have no default printer assigned and the UNIX(r) system administration for a default system line printer has not been done.	Could not print a file. The <i>Solaris</i> server probably does not have a default system line printer assigned, and the user probably does not have a CMS default printer assigned. Administer a default printer with <i>Solaris</i> . Select the <F3> key -> Options -> default printer to assign a default printer to a user. Ensure that the user has the appropriate permissions to the printer in the User Permissions subsystem.
555	UNIX error on EXEC: Couldn't execute the following command: <user command>	System is too busy for command to be processed.
555	UNIX error on EXEC: CMS couldn't run because crt_io_man wouldn't execute	System is too busy for command to be processed.
556	UNIX error on FORK: CMS couldn't run because the system was too busy.	System is too busy for command to be processed.

Error Code	Message	Reason/Action
556	UNIX error on FORK: UNIX process limit exceeded, system is too busy	<i>CMS</i> was unable to start a process. This will occur most likely if a user is logged into <i>CMS</i> through multiple terminals. Make sure each user logs in on only one <i>CMS</i> terminal/session at a time. If this message occurs when timetables are running, try adjusting the starting times of the timetables so that fewer are running simultaneously. If it occurs when running Main Menu Additions , try rewriting the Main Menu Additions to use fewer simultaneous <i>Solaris</i> processes.
556	UNIX error on FORK: Call records not being sent. Call Services.	The process for transferring external call records could not be started. Call Services.
557	UNIX call error: UNIX process limit exceeded. System is too busy	This error could occur for multiple reasons. Call services for assistance.
557	UNIX call error: uucp failed	The uucp file transfer mechanism for the External Call Records feature has failed. The system will automatically retry the transfer. If it fails repeatedly, call Services.
1001	UNIX error on NEW Agent upper bound has been reached. You have administered more Agent Exceptions than are allocated. You must either delete unneeded exceptions or allocate more space in System Setup: Data Storage Allocation.	The exception distributor process (ED) is attempting to log more agent exceptions than will fit in the storage space allocated for them. Delete unneeded exceptions or allocate more space in System Setup > Data Storage Allocation .
1001	UNIX error on NEW Split upper bound has been reached. You have administered more Split Exceptions than are allocated. You must either delete unneeded exceptions or allocate more space in System Setup: Data Storage Allocation.	The exception distributor process (ED) is attempting to log more Split exceptions than will fit in the storage space allocated for them. Delete unneeded exceptions or allocate more space in System Setup > Data Storage Allocation .

Error Code	Message	Reason/Action
1001	UNIX error on NEW Trunk group upper bound has been reached. You have administered more Trunk Group Exceptions than are allocated. You must either delete unneeded exceptions or allocate more space in System Setup: Data Storage Allocation.	The exception distributor process (ED) is attempting to log more Trunk Group exceptions than will fit in the storage space allocated for them. Delete unneeded exceptions or allocate more space in System Setup > Data Storage Allocation .
1001	UNIX error on NEW VDN upper bound has been reached. You have administered more VDN Exceptions than are allocated. You must either delete unneeded exceptions or allocate more space in System Setup: Data Storage Allocation.	The exception distributor process is attempting to log more VDN exceptions than will fit in the storage space allocated for them. Delete unneeded exceptions or allocate more space in System Setup > Data Storage Allocation .
1001	UNIX error on NEW Vector upper bound has been reached. You have administered more Vector Exceptions than are allocated. You must either delete unneeded exceptions or allocate more space in System Setup: Data Storage Allocation.	The exception distributor process is attempting to log more Vector exceptions than will fit in the storage space allocated for them. Delete unneeded exceptions or allocate more space in System Setup > Data Storage Allocation .
1050	INFORMIX SQL syntax error:	The given SQL command is syntactically incorrect. Usually more details of the error are included. For customers, this error is reported via their custom report and is corrected there. For CMS, this is usually a software problem which may need reporting. Correct the SQL statement in the custom report.
1053	INFORMIX insert error	An internal error or a full ACD dbspace is preventing data from being inserted into the ag_actv database table. Make sure that there is enough room in the ACD dbspace that holds the table.

Error Code	Message	Reason/Action
1100	IPC error on messages: message queue queue is NN% full	This message is logged when a message queue is more than 75 percent full. Each message queue is checked approximately once every two minutes. If this message is repeatedly logged, CMS is in danger of losing messages that may result in loss of customer data. Single occurrences of this message can be ignored. If it happens repeatedly, contact services for assistance. Try reducing your CMS usage while this message is being logged to reduce the chances of losing data. If this message occurs while you are doing a CMS backup, try doing the backup during a less busy period.
1302	PROCESS COMMUNICATIONS (P0) library error, function: ERROR - <HARCH> receiving too many exceptions too fast. Some exceptions have been discarded. Reduce the number of active exceptions or change thresholds so that fewer exceptions are triggered.	Exceptions are being generated faster than interval archiver process can handle them. This is the result of having too many exceptions activated, or having thresholds set to produce too many exceptions. Reduce the number of active exceptions or change thresholds so that fewer exceptions are triggered.
1302	PROCESS COMMUNICATIONS (P0) library error, function: ERROR - <IDBM> receiving too many exceptions too fast. Some exceptions have been discarded. Reduce the number of active exceptions or change thresholds so that fewer exceptions are triggered.	Exceptions are being generated faster than intermediate database manager interface process can handle them. This is the result of having too many exceptions activated, or having thresholds set to produce too many exceptions. Reduce the number of active exceptions or change thresholds so that fewer exceptions are triggered.

Error Code	Message	Reason/Action
1302	PROCESS COMMUNICATIONS (PO) library error, function: ERROR - <SPI> receiving too many exceptions too fast. Some exceptions have been discarded. Reduce the number of active exceptions or change thresholds so that fewer exceptions are triggered.	Exceptions are being generated faster than the switch interface process can handle them. This is the result of having too many exceptions activated, or having thresholds set to produce too many exceptions. Reduce the number of active exceptions or change thresholds so that fewer exceptions are triggered.
1350	GENERAL error internal to process: Unable to successfully complete archiving.	Unable to initialize CMS environment. Re-initiate Data Summarizing.
1350	GENERAL error internal to process: Failure in agent exception database table. Agent exception data not being stored. Call Services.	This error message is logged when the exception distributor process is unable to insert rows in the agent exception table. The error can occur when the ACD dbspace holding the agent exception table becomes full. No more agent exceptions can be recorded until the problem is corrected.
1350	GENERAL error internal to process: Failure in link exception database table. Link exception data not being stored. Call Services.	This error message is logged when the exception distributor process is unable to insert rows in the link exception (linkEx) table. The error can occur when the disk partition holding the link exception table becomes full. No more link exceptions can be recorded until the problem is corrected.
1350	GENERAL error internal to process: Failure in malicious call trace exception database table. MCT exception data not being stored. Call Services.	This error message is logged when the exception distributor process is unable to insert rows in the malicious call trace exception (mctEx) table. The error can occur when the disk partition holding the malicious call trace exception table becomes full. No more malicious call exceptions can be recorded until the problem is corrected. Call Services.

Error Code	Message	Reason/Action
1350	GENERAL error internal to process: Failure in split exception database table. Split exception data not being stored. Call Services.	This error message is logged when the exception distributor process is unable to insert rows in the split exception (spEx) table. The error can occur when the disk partition holding the split exception table becomes full. No more split exceptions can be recorded until the problem is corrected. Call Services.
1350	GENERAL error internal to process: Failure in trunk group exception database table. Trunk group exception data not being stored. Call Services.	This error message is logged when the exception distributor process is unable to insert rows in the trunk group exception table. The error can occur when the disk partition holding the trunk group exception table becomes full. No more trunk group exceptions can be recorded until the problem is corrected. Call Services.
1350	GENERAL error internal to process: Failure in VDN exception database table. VDN exception data not being stored. Call Services.	This error message is logged when the exception distributor process is unable to insert rows in the VDN exception (vdnEx) table. The error can occur when the disk partition holding the VDN exception table becomes full. No more VDN exceptions can be recorded until the problem is corrected. Call Services.
1350	GENERAL error internal to process: Failure in vector exception database table. Vector exception data not being stored. Call Services.	This error message is logged when the exception distributor process is unable to insert rows in the vector exception (vecEx) table. The error can occur when the disk partition holding the vector exception table becomes full. No more vector exceptions can be recorded until the problem is corrected. Call Services.

Error Code	Message	Reason/Action
1350	GENERAL error internal to process: CMS task limit exceeded, system is too busy	This message means that a <i>CMS</i> task cannot be created because <i>CMS</i> is already running the maximum number of tasks. Make sure each user logs in to <i>CMS</i> only once. If this message occurs when timetables are running, try adjusting the starting times of the timetables so that fewer are running simultaneously. If it occurs when running Main Menu Additions, try rewriting the Main Menu Additions to use fewer simultaneous <i>Solaris</i> processes.
1350	GENERAL error internal to process: Update failure for <item searched> Too much data. Try again with a more restrictive search.	Item searched for is too large. The search needs to be restricted further. Restrict the search to a smaller amount of data.
1350	GENERAL error internal to process: disk may be full.	Error in searching for item. Disk may be full. Clean up unnecessary files from disk.
1350	GENERAL error internal to process: Failure in removing data from database table: ag_actv. Agent Trace data not being stored. Call Services.	An internal error occurred that prevents data from being deleted from the ag_actv database table. Call Services.
1351	GENERAL error in process interface: Invalid action request.	Something is corrupted with the window interface. Exit and re-enter the data summarizing window. Attempt to initiate data summarizing again.

Error Code	Message	Reason/Action
1351	GENERAL error in process interface: Cannot archive a day which interval data does not exist for.	Interval data does not exist for the requested day or any day prior to the requested day. The number of days of interval data saved is based on the Days of Intrahour field set on the Data Storage Allocation window. Re-initiate Data Summarizing for a day that is within the number of Days of Intrahour saved. For future reference, the number of Days of Intrahour data can be increased. Disk space must be considered before changing this parameter.
1351	GENERAL error in process interface: Cannot archive the requested week/month. Daily data does not exist for all tables for the week/month beginning xx/xx/xx.	Daily data does not exist for the requested week/month or any week/month prior to the requested day. The number of days of interval data saved is based on the Days of Daily field set on the Data Storage Allocation window. Re-initiate Data Summarizing for a week/month that is within the number of Days of Daily saved. For future reference, the number of Days of Daily data can be increased. Disk space must be considered before changing this parameter. If the number of Days of Daily is changed and intrahour daily data is present for the days of the requested week/month, those days can be archived and the week/month can then be archived.

Error Code	Message	Reason/Action
1351	GENERAL error in process interface: ERROR - <ARCH> receiving too many archive requests too fast. Some requests have been discarded.	Too many data summarizing requests (more than 25) have been initiated in a short period of time (approx. 1/2 hour) and cannot all be processed. Determine all data summarizing requests that have been initiated. Once all requests have been processed, verify the requests against the completed archives (as reported in /cms/dc/archive/arch.log). Re-initiate archive for the date and archive (daily/weekly/monthly) for the archives not initiated. In the future, do not initiate all requests at once.
1351	GENERAL error in process interface: Cannot archive a day in the future.	The date of the requested archive has not happened yet. Re-initiate the daily archive for a date prior to today.
1351	GENERAL error in process interface: Cannot archive a partial weeks/months data.	The last day for the week/month has not been archived yet. Verify that a weekly/monthly archive is not being requested for the current week/month. That is, the end of the week/month has not been reached yet. Re-initiate the weekly/monthly archive for a week/month in which the last day has already been archived.

Error Code	Message	Reason/Action
1351	GENERAL error in process interface: stopping task id to free up message queue	A message queue is more than 85 percent full and the task that should be reading from the queue is apparently stuck. This message is logged when <i>CMS</i> restarts the task to attempt to clear the error condition. Depending on which task has been stopped, it is likely that some customer data has been lost. Report the problem to services. If this error is logged repeatedly, try reducing your <i>CMS</i> usage while this message is being logged to reduce the chances of losing data. If this message occurs while you are doing a <i>CMS</i> backup, try conducting the backup during a less busy period.
1351	GENERAL error in process interface: External applications not started. Set to OFF	When the External Application feature was started, there was some general error. The feature was turned back off because of this error. Request help from your External Application provider (Avaya Professional Services Organization).
1351	GENERAL error in process interface: Activate Agent Trace request failed. Try again.	This error is logged when the agent activity recorder process (AAR) has too many messages in its message queue to accept any more. This can occur when many very active agents are being traced, keeping aar's queue full. Trace fewer agents or try this request again later.
1351	GENERAL error in process interface: Task < task_num> of timetable <name> may not have completed, window status was: <status>	Timetable ran and has a status other than Successful. Based on what the timetable was, examine the state of things (database, ACD administration, etc) to see if the request completed. If desired, complete the action manually by running <i>CMS</i> now.

Error Code	Message	Reason/Action
1400	SPI session error: data collection session is down	An error has occurred in the X.25 connection to the switch. <i>CMS</i> data is not being collected. <i>CMS</i> will automatically try to restore the link. If the link does not re-establish by itself within five minutes, check the cables, modems, and other hardware between the <i>CMS</i> and the switch for any obvious loose connections.
1404	SPI configuration error: Insufficient unmeasured trunks allocated. To avoid further data loss, go to Data Storage Allocation and administer more unmeasured trunk facilities.	There are not enough unmeasured trunks allocated in the <i>CMS</i> realtime database to track all calls. This message is logged once during each data collection interval when the error condition occurs. When this message appears, some call data has already been lost. Data will continue to be lost until more trunk facilities have been allocated. Allocate more unmeasured trunk facilities in the Data Storage Allocation screen.
1404	SPI configuration error: Switch and UNIX clocks differ by more than 24 hours. Switch clock is <nn:nn:nn nn/nn/nn> UNIX clock is <mm:mm:mm mm/mm/mm> Data collection will remain down until switch or UNIX clock is reset so they agree.	<i>CMS</i> requires that the times on the MultiVantage and Solaris systems remain within 24 hours of each other. This is done to prevent an accidental deletion of all historical data if someone were to inadvertently change the clock to a date far into the future. If the Solaris clock is correct but the MultiVantage clock is incorrect, reset the clock at the switch. <i>CMS</i> will bring the link up automatically within five minutes after correcting the switch clock.
1404	SPI configuration error: Extension <number> has been staffed by two different login IDs: <first> and <second>. Data will be tracked only for the last login ID. Ask the agent to log off and log in again with a single login ID.	Protocol error as explained in the message. Ask the agent to log off and log in again with a single login ID.

Error Code	Message	Reason/Action
1404	One of the following messages will be displayed depending on the switch configuration: Two agents at extensions <ext>in split <num> and <ext>in split <num> are logged in with the same login ID: <id> This may indicate table corruption on the switch. Contact Services to repair table as soon as possible. Two agents at extensions <ext> and <ext>are logged in with the same login ID: <id>. This may indicate table corruption on the switch. Contact Services to repair table as soon as possible.	Protocol violation or switch corruption. Try requesting new translations in Maintenance: ACD Status screen. If the problem persists, call Services.

Error Code	Message	Reason/Action
1404	One of the following messages will be displayed depending on the switch configuration: SPI configuration error: Agent <logid> at extension <ext>has logged into too many splits: <sp1>, and <sp2>. Data will only be tracked for the last split. This may indicate incorrect switch type on CMS for G3. SPI configuration error: Agent <logid> at extension <ext> has logged into too many splits: <sp1>, <sp2>, <sp3>, and <sp4> . Data will only be tracked for the last split. This may indicate incorrect switch type on CMS for G3. SPI configuration error: Agent <logid> at extension <ext> has logged into too many splits: <sp1>, <sp2>, <sp3>, <sp4>, and <sp5>. Data will only be tracked for the last split. This may indicate incorrect switch type on CMS for G3.	Switch type mismatch, protocol violation or switch table corruption. Try requesting new translations in Maintenance: ACD Status screen. If the problem persists, call Services.
1406	SPI data message error: ERROR can't new a message (or got illegal opcode)	This generally indicates that there is a mismatch between the administered <i>CMS</i> type on the MultiVantage system and the actual <i>CMS</i> or there is a mismatch between the administered switch type and feature set of the switch on the <i>CMS</i>. This results in message formats being of unexpected lengths. Data is lost since the remainder of the buffer is discarded after the unknown message. Determine if the problem happens more than once. Call Services.

Error Code	Message	Reason/Action
1407	SPI timer expired error: there is no response from the switch	<i>CMS</i> has stopped receiving messages from the MultiVantage system. <i>CMS</i> data is not being collected. <i>CMS</i> will automatically try to restore the link. At the switch, perform a busy out and release the MIS connection.
1409	SPI ACD administration error: switch was unable to logon agent <logid> with skill <num>	For some reason the login failed on the switch. This login may have been part of a Move Agent or Change Agent Skills request which was pending. Have the agent try to log in to the skill again. Or put the agent in the AUX workmode for all skills and have no calls on their set. Repeat the administration request. If the request fails again, collect the information from the status window for Services.
1409	One of the following messages will be displayed: SPI ACD administration error: switch unable to move ext <ext> from split <num> to <num> SPI ACD administration error: switch unable to move ext <ext> from split <num>	Previous ACD administration request for moving an agent or changing an agent's skills was pending. When the pending was resolved, the agent could not be moved for some reason. Put the agent in the AUX workmode for all split/skills and have no calls on their set. Repeat the administration request. If the request fails again, collect the information from the status window for Services.
1501	SCREEN MANAGER error: system may be overloaded by real time reports behind by XX seconds.	<i>CMS</i> is behind on refreshing the real-time reports currently running. Run fewer real-time reports or lengthen refresh rates for the reports currently running.
1600	FORECAST status: Forecast Manager failed for mm/dd/yy	Forecast Manager failed in its attempt to perform the daily data collection and/or the current day report for mm/dd/yy. If the date is invalid, correct the date and rerun the report. If it is not a problem with the date, call Services for assistance.

Error Code	Message	Reason/Action
1600	FORECAST status: Forecast Manager failed for mm/dd/yy - mm/dd/yy	Forecast Manager failed in its attempt to perform the recollect data for a range of dates mm/dd/yy - mm/dd/yy. The first date is the start date and the second date is the stop date. If the dates are invalid, correct the date and rerun the report. If it is not a problem with the date, call Services for assistance.
1700	BACKUP Process out of sync. Contact Services.	A bad message was received from the backup screen. If this occurs, some sort of interference may have occurred in the message queue between the backup process and backup screen. If the problem re-occurs, something is impacting the communication between the processes. Further investigation is necessary to determine the source of the problem. Exit the current instance of the backup screen and re-initiate the backup. Verify that the problem does not re-occur.
1701	BACKUP Process out of memory. Contact Services.	If this error occurs, it is when the tape is being verified, but after the backup has already completed successfully. If tape verification is not essential, no further action is necessary. This error indicates a problem with memory allocation. Exit the current instance of the backup screen and re-initiate the backup. Verify that the problem does not re-occur.
1702	BACKUP Process startup failed. Contact Services	Any number of startup activities could cause this problem. Most are message and database activities that should never be encountered. If the problem re-occurs, something is peculiar in the environment of the backup process and further investigation is necessary to determine the source of the problem. Exit the current instance of the backup screen and re-initiate the backup. Verify that the problem does not re-occur.

Error Code	Message	Reason/Action
1703	BACKUP Volume access failed. Retry Backup.	A problem accessing the backup device has occurred. This problem could range from an invalid backup device to the tape drive requiring cleaning. Verify the following: • The backup device is administered properly (name corresponds with solaris administered device) • The tape compatibility is correct(320 meg tape for 320 meg drive, etc.). • The tape drive is clean.
1704	BACKUP Volume check failed. Retry Backup.	Either the inserted tape is a recent backup and backup was initiated in timetable or backup had difficulty determining the most recent backup (either full or incremental) volume. Determine if the inserted tape is associated with the most recent backup (full or incremental). Replace the tape and re-execute backup (or services run br_check).
1705	BACKUP Volume verification failed. Retry Backup.	A problem reading the tape exists. Exit the current instance of the backup screen and re-initiate the backup. Verify that the problem does not re-occur.
1706	BACKUP Table backup failed. Retry Backup. Table=	A problem was encountered either reading the indicated table or writing that table to tape. Replace the tape with a new tape (after verifying no problems with the indicated table) and re-execute the backup process. Verify that the problem does not re-occur.

Error Code	Message	Reason/Action
1707	BACKUP Volume span failed. Retry Backup	When verifying the backup tape, a problem was discovered between the current volume and the previous volume. Most likely, the blocks are out of sequence. More specifically, at least 1 block is missing. Re-execute the backup process. Verify that the problem does not re-occur.
1708	BACKUP Error in process communication. Retry Backup.	This should never be encountered. A bad message was received from the backup screen (or erroneously from another process). If this occurs, some sort of interference occurred in the message queue between the backup process and backup screen. If the problem re-occurs, something is impacting the communication between the processes. Further investigation is necessary to determine the source of the problem. Exit the current instance of the backup screen and re-initiate the backup. Verify that the problem does not re-occur.
1709	BACKUP Backup history update failed. Retry Backup.	This should never be encountered. The backup was completed successfully. A problem exists with the update tables or the process to update the tables. Verify that the next backup does not encounter this problem.
1710	BACKUP Process in need of service. Please check the Backup screen.	An acknowledgement window is requiring a response. Respond to the backup acknowledgement window.
1711	INFO Warning backup waited 210/7200 seconds before archive completed.	The backup process waited 210 seconds for the current archiving process to finish. Backups should not be run during the archiving process. If this occurs consistently, consider rescheduling your archiving and backup processes so that overlap does not occur.

Error Code	Message	Reason/Action
1711	ERROR backup terminated because archive did not complete within 2 hours.	The backup process waited two hours for the archiving process to be completed and was terminated as a result. Backups should not be run during the archiving process. Reschedule the backup and archiving processes so that simultaneous processing does not occur.
1711	BACKUP INFO:	Backup was initiated through a timetable and information is reported (number of volumes and backup completed) simply for information purposes. No action required
1750	BACKUP Screen startup failed. Contact Services.	Any number of startup activities could cause this problem. Most problems deal with accessing screen entries and database activities that should never be encountered. If the problem re-occurs, something is peculiar in the environment of the backup process. Further investigation is necessary to determine the source of the problem. Exit the current instance of the backup screen and re-initiate the backup. Verify that the problem does not re-occur.
1751	BACKUP Screen execution failed. Retry Backup.	Any number of startup activities could cause this problem. Most problems deal with accessing screen entries and database activities that should never be encountered. If the problem re-occurs, something is peculiar in the environment of the backup process. Further investigation is necessary to determine the source of the problem. Exit the current instance of the backup screen and re-initiate the backup. Verify that the problem does not re-occur.

Error Code	Message	Reason/Action
1800	RESTORE Process out of sync. Contact Services.	A bad message was received from the restore screen. If this occurs, some sort of interference occurred in the message queue between the restore process and restore screen. If the problem re-occurs, something is impacting the communication between the processes. Further investigation is necessary to determine the source of the problem. Exit the current instance of the restore screen and re-initiate the restore. Verify that the problem does not re-occur.
1801	RESTORE Process out of memory. Contact Services.	A problem with memory allocation exists. Exit the current instance of the restore screen and re-initiate the restore. Verify that the problem does not re-occur.
1802	RESTORE Process startup failed. Contact Services	Any number of startup activities could cause this problem. If the problem re-occurs, something is peculiar in the environment of the restore process and further investigation is necessary to determine the source of the problem. Exit the current instance of the restore screen and re-initiate the restore. Verify that the problem does not re-occur.
1803	RESTORE Volume access failed. Retry Restore.	A problem exists accessing the restore device. This could be an invalid restore device, the tape drive requiring cleaning, or a table header format problem (internal error). Verify the following: ● The backup/restore device is administered properly (name corresponds with Solaris administered device). ● The tape compatibility is correct (320 meg tape for 320 meg drive, etc.). ● The tape drive is clean.

Error Code	Message	Reason/Action
1804	RESTORE Error in process communication. Retry Restore.	A bad message was received either by the restore screen or the restore process. If this occurs, some sort of interference occurred in the message queue between the restore process and the restore screen. If the problem re-occurs, something is impacting the communication between the processes. Further investigation is necessary to determine the source of the problem. Exit the current instance of the restore screen and re-initiate the restore. Verify that the problem does not re-occur.
1805	RESTORE Table restore failed. Retry Restore. Table=	A problem was encountered either reading the indicated table from tape or writing that table into the database. Perform a specific table restore for the indicated table. Verify that the problem does not re-occur.
1806	RESTORE INFO: Volume contains no data for ACD=X	This is an Information message indicating that the current table for the indicated ACD does not have data. No action required.
1850	RESTORE Screen startup failed. Contact Services.	Any number of startup activities could cause this problem. Most problems result from accessing screen entries that should never be encountered. If the problem re-occurs, something is peculiar in the environment of the restore process and further investigation is necessary to determine the source of the problem. Exit the current instance of the restore screen and re-initiate the restore. Verify that the problem does not re-occur.

Error Code	Message	Reason/Action
1851	RESTORE Screen execution failed. Retry Restore.	Updating the status on the screen could cause this problem (although extremely rare). If the problem re-occurs, something is peculiar in the environment of the restore process and further investigation is necessary to determine the source of the problem. Exit the current instance of the restore screen and re-initiate the restore. Verify that the problem does not re-occur.
1900	SYSTEM MESSAGE OVERLOAD: Agent Trace (AAR) is overloaded, some agent trace data lost. Turn off traces for some agents to prevent possible further overloading.	AAR is receiving messages faster than it can process them. Turn off traces for some agents.
1900	SYSTEM MESSAGE OVERLOAD: Call History Recorder (ch_rec) overloaded, some call record data lost.	Data is being sent faster than it can be processed. This usually indicates that the system as a whole is overloaded. Stop some reports or applications so that the system capacity is increased.
1901	FULL DISK ERROR: Out of disk space. Data Collection failed (Archiver).	Enough disk space is not available for the insertion of daily/weekly/monthly archive data. Free up disk space or add more disk space in the form of additional hard disks.
1901	FULL DISK ERROR: Out of disk space. Harchiver could not write to <TABLENAME>.	Enough disk space is not available for the insertion of agent login/logout or interval archive data. Free up disk space or add more disk space in the form of additional hard disks. If the problem persists, call Services.
1901	FULL DISK ERROR: cannot write to xxx.	The filesystem or ACD dbspace is out of disk space. Use Free Space Allocation and/or Data Storage Allocation to adjust the amount of space available to the ACD.

Error Code	Message	Reason/Action
1901	FULL DISK ERROR:	There is no more disk space to load the data for this pseudo-ACD. The load ACD process cannot continue. Delete the pseudo-ACD and start over again using a later "Start date" for the pseudo-ACD and load less data. Reduce the amount of historical data kept in other ACDs.
1901	FULL DISK ERROR: Automatically turning off data collection and bringing CMS to single user mode	All ACD dbspaces are checked for free space every 10 minutes. By turning off data collection and going to single user mode, <i>CMS</i> prevents corruption of the data that may occur if IDS tries to write data to a full ACD dbspace. <i>CMS</i> cannot be returned to its normal operational state until space has been made available in the ACD dbspace. Use Free Space Allocation and/or Data Storage Allocation to adjust the amount of space available to the ACD.
1901	FULL DISK ERROR: WARNING: File system <filesys> is <NN> percent full.	This message is logged once each day near midnight and whenever <i>CMS</i> is started. The message is logged once for each file system or ACD dbspace that is at or beyond 80 percent of maximum capacity. This message is intended as an early warning that disk space may need to be reallocated. No immediate action is necessary. Eventually, you should use Free Space Allocation to allocate more space to the ACD dbspace. You should plan to do this well in advance of the ACD dbspace or file system becoming completely full.
1901	FULL DISK ERROR: Storage Interval Migration failed migrating	The disk or ACD dbspace is out of space. Use Free Space Allocation or Data Storage Allocation to adjust the amount of space available to the ACD.

Error Code	Message	Reason/Action
1901	FULL DISK ERROR	The dbspace containing the ag_actv database table is full. Change the allocation of disk space for the various classes of data to accommodate storage of more agent trace records.
1901	FULL DISK ERROR: Out of disk space. Call Records not recorded.	The dbspace containing the call_rec database table is full. Change the allocation of disk space for the various classes of data to accommodate storage of more internal call records.
1901	FULL DISK ERROR: Call Records not being stored. Call Services.	The dbspace containing the external call records files is full. Call Services.
1902	CALL RECORD ERROR: Call Records not being stored. Call Services.	An error was encountered in writing call records to a disk file. Call Services
1902	ALL RECORD ERROR: Call Records are being collected again.	Previous errors writing files have been cleared and records are again being stored. No action necessary.
1902	CALL RECORD ERROR: Call Records not being stored, buffer area is full. Call Services	Files containing call records have not been successfully transferred. All storage space has been used and new records cannot be added. Call Services.
1902	CALL RECORD ERROR: Call rate exceeded capacity: xxx calls not transmitted	The internal Call History feature is activated but the call rate exceeds the maximum capacity handled by this feature; therefore, call records are not being sent to the Call History feature. This message indicates how many calls were not sent in the past data collection interval. This has no effect on the collection of regular data. Call Services.

Error Code	Message	Reason/Action
2000	Could not run timetable: - Aborting Timetable. <timetable name>	Something is wrong with the timetable which is not allowing properly functionality. Try rescheduling the timetable. Consult this document for information on using timetables to see if there are erroneous tasks in the timetable.
2000	Could not run timetable: <timetable name> Task <number> of <total> was unable to complete. Reason: <reason>	A timetable task is in error. One common possibility is that the user does not have permissions for the split, vdn, etc. for which they are running reports.
2000	Could not run timetable: don't run timetable, in single user timetable = <timetable_name> <user_name>	Timetables cannot run when <i>CMS</i> is in single user mode. An administrator has put <i>CMS</i> in single user mode as required by some special administrative tasks. The severity of the problem is that the user's timetables are not being run when expected. Schedule the timetables that should have run to be performed as soon as possible and then reschedule those timetables back to their original times. Schedule their timetables to run at a time that does not conflict during the time when <i>CMS</i> needs to be in single user mode.
2000	Could not run timetable: sorry post office open of timetable crt_io_man was not successful for timetable - <timetable name> and <cms id> - <user name>.	Communications cannot be established with a crt_io_man in order to run the timetable. Try rescheduling the timetable.
2000	Could not run timetable: -- Archiver <timetable name> did not run on <date> for the user - <user name>. Please schedule it to rerun using the Data Summarizing screen.	The Archiver has a problem in moving historical data into tables for the timetable to use. Call Services.

Error Code	Message	Reason/Action
2000	Could not run timetable: -- Archiver <timetable name> did not run on <date> for the user - <user name>. To schedule a timetable to run as soon as possible, enter a cms start time that is two minutes into the future, and a start date of 0.	A user scheduled a timetable to run in less than two minutes into the future. Reschedule the timetable for at least two minutes into the future.
2100	Unable to execute <process>. <Impact-description>.Call Services.	The specified process could not be executed. The impact is usually the failure of a major component of <i>CMS</i> such as Agent Trace, Exceptions, or Data Collection. This problem can usually be repaired by stopping <i>CMS</i> and restarting it. Call Services.
2200	Sometimes the problem can be repaired by stopping CMS and restarting it. <table>	An error was encountered during migration. Call services for assistance.
2300	INTERVAL MIGRATION: Interval migration was canceled before it completed. Restart it from the Storage Intervals screen to complete the migration	The migration was canceled manually before it completed. Restart the migration from the Storage Intervals screen.
2300	INTERVAL MIGRATION: Migrating intrahour historical data for ACD xx from xx to yy minute interval is complete.	This message indicates when intrahour migration is complete. No action required.
2400	FREE SPACE ALLOCATION: <error message>	This type of error message specifies that the Free Space Allocation feature has suffered a problem in locating or updating database tables. Contact services.
2500	STORAGE INTERVALS: Weekly start/stop day(s) have been changed from xx to yy.	This is an informational message indicating that the Storage Interval days have changed. Verify that the new days are correct.

Error Code	Message	Reason/Action
2600	ARCHIVER status: Daily/Weekly/Monthly Archive not executed for xx/xx/xx due to Data Storage Allocation administration.	Data Storage Allocation indicates 0 days/weeks/months are to be saved; therefore, no reason to archive data exists. This is most commonly a result of an error in user input. If daily archives are desired, Data Storage: Days of Daily/Weeks of Weekly/Months of Monthly entry(ies) must be changed to allow an archive to take place. Disk space must be considered before changing these fields.
2600	ARCHIVER status: Daily/Monthly/Weekly Archiver for xx/xx/xx Successful.	Indicates successful completion of the daily/weekly/monthly archive. The status of previous and current archives also exists in /cms/dc/archive/arch.log. No action necessary.
2600	ARCHIVER status: Daily/Monthly/Weekly Archiver for xx/xx/xx Failed.	Indicates failure of the daily/weekly/monthly archive. The status of previous and current archives also exists in /cms/dc/archive/arch.log. Re-initiate an archive for the same date and archive type (daily/weekly/monthly) using the CMS System Setup:Data Summarizing screen.
2700	MIGRATE DATA Process out of sync. Call Services.	A bad message was received from the R3 Migrate screen. If this occurs, some sort of interference occurred in the message queue between the R3 Migrate process and the associated screen. If the problem re-occurs, something is impacting the communication between the processes. Further investigation is necessary to determine the source of the problem. Exit the current instance of the R3 Migrate screen and re-initiate the migration. Verify that the problem does not re-occur.

Error Code	Message	Reason/Action
2701	MIGRATE DATA Process out of memory. Contact Services.	A problem with memory allocation has occurred. Exit the current instance of the R3 Migrate screen and re-initiate the migration. Verify that the problem does not re-occur.
2702	MIGRATE DATA Process startup failed. Contact Services	Any number of startup activities could cause this problem. If the problem re-occurs, there is an error in the environment of the migrate process and further investigation is necessary to determine the source of the problem. Exit the current instance of the R3 Migrate screen and re-initiate the migration. Verify that the problem does not re-occur.
2703	MIGRATE DATA Volume access failed. Retry Restore.	A problem exists accessing the migration device. This could range from: ● Invalid migration device ● Tape drive needs cleaning ● Table header format problem (internal error). Verify the following: ● The backup/restore device is administered properly (name corresponds with Solaris administered device) ● The tape compatibility is correct (320 meg tape for 320 meg drive, etc.). ● The tape drive is clean.
2706	MIGRATE DATA Table migration failed. Retry Migrate. Table=	A problem was encountered either reading the indicated table from tape or writing that table into the database. Stop the migration and call Services for help with the table that failed. After the problem is fixed, restart the migration.

Error Code	Message	Reason/Action
2708	MIGRATE DATA Error in process communication. Retry Restore.	A bad message was received either by the R3 Migrate screen or the migration process. If this occurs, some sort of interference occurred in the message queue between the migration process and the R3 Migrate screen. If the problem re-occurs, something is impacting the communication between the processes. Further investigation is necessary to determine the source of the problem. Exit the current instance of the R3 Migrate screen and re-initiate the migration. Verify that the problem does not re-occur.
2750	MIGRATE DATA Screen startup failed. Contact Services.	Any number of startup activities could cause this problem. Most can be attributed to accessing screen entries that should never be encountered. If the problem re-occurs, something is in error in the environment of the migrate process and further investigation is necessary to determine the source of the problem. Exit the current instance of the R3 Migrate screen and re-initiate the migrate. Verify that the problem does not re-occur.
2751	MIGRATE DATA Screen execution failed. Retry Migrate.	This error can result when an update to the R3 Migrate screen fails. If the problem re-occurs, something is in error in the environment of the migrate process and further investigation is necessary to determine the source of the problem. Exit the current instance of the R3 Migrate screen and re-initiate the migration. Verify that the problem does not reoccur.

ACD Administration Log

The ACD Administration Log provides an audit trail for administrative changes made to an ACD by *CMS* users. The ACD Administration Log records real-time administrative changes made by a user through the *CMS ASCII* interface, *Supervisor*, or *Visual Vectors*. The log also records the administrative changes made by a user through a scheduled timetable or *Supervisor* script.

Contents

This section contains the following topics:

- [Running the ACD Administration Log report](#) on page 700
- [ACD Administration Log window field descriptions](#) on page 703

Before you begin

The following items should be read and understood before working with the ACD Administration Log report:

- The maximum capacity for the log is set at 30,000 records and cannot be changed. When the table size exceeds 30,000 records, the 100 oldest records will be deleted.
- This report can be scheduled through a *CMS* timetable or a *Supervisor* script.
- The historical database items of the *CMS* ACD Administration Log is not available for use with the *Avaya CMS Supervisor Report Designer* tool. The *Supervisor File* menu option for this report will not display the **Designer** option. It will, however, behave in the same manner as drill-down reports.

Permissions

To view the ACD Administration Log report, the user ID used to log in to this *Supervisor* session requires *read* permission for the **Maintenance** subsystem.



Important:

If the ACD Administration Log report is run to display all 30,000 records, your PC should have no less than 200 MB of free disk space to allow for the caching of this data.

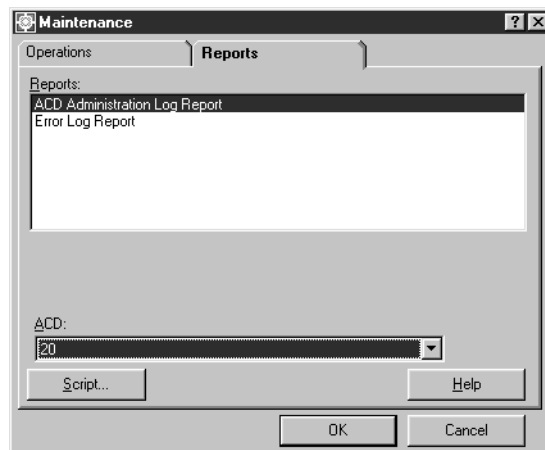
Running the ACD Administration Log report

Steps

To run the ACD Administration Log report:

1. From the Controller window, select **Tools > Maintenance**.

*Supervisor displays the **Maintenance** window.*



2. Select the **Reports** tab.
3. In the **Reports:** list, select **ACD Administration Log Report**.

It is not necessary to select an ACD in the **ACD:** field as this feature allows ACD specification in a subsequent dialog.

4. Select **OK**.

Supervisor displays the **ACD Administration Log** window.

The height of this dialog box varies according to the current screen resolution of your PC. A higher screen resolution results in more fields being displayed.

For a description of the **ACD Administration Log** window fields, see [ACD Administration Log window field descriptions](#) on page 703 for additional information.

5. In the available fields, enter the data to use in the report. The data can also be selected through the drop-down history lists or through the Browse buttons.

The more fields that you specify, the more restricted the data will be that is used in the report. If all of the input fields are left blank, all records will be displayed.

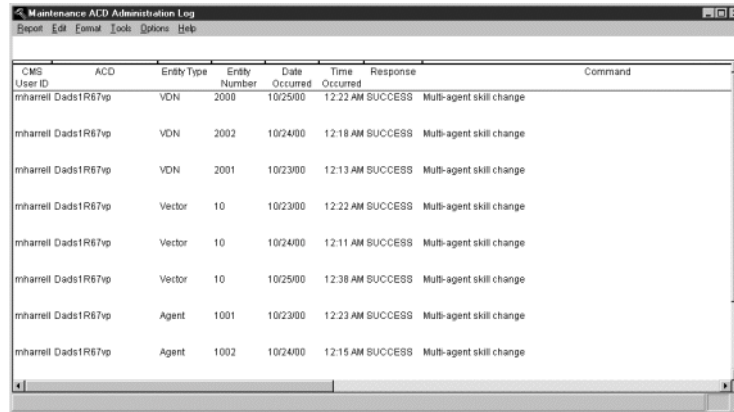
6. In the **Destination** group, select one of the following output options:

- **View Report on Screen** – The report is displayed on the screen.
- **Print Report on:** – The report is sent to the specified printer. Any printer available to the PC can be used and selected through the button at the right of the field.

Maintaining CMS

7. Select **OK**.

Supervisor displays the **ACD Administration Log Report** with the specified data.



The screenshot shows a window titled "Maintenance ACD Administration Log" with a menu bar (Report, Edit, Format, Tools, Options, Help). Below the menu is a table with the following columns: CMS User ID, ACD, Entity Type, Entity Number, Date Occurred, Time Occurred, Response, and Command. The table contains eight rows of log entries, all with the command "Multi-agent skill change".

CMS User ID	ACD	Entity Type	Entity Number	Date Occurred	Time Occurred	Response	Command
mharrell Dads1R67vp		VDN	2000	10/25/00	12:22 AM	SUCCESS	Multi-agent skill change
mharrell Dads1R67vp		VDN	2002	10/24/00	12:18 AM	SUCCESS	Multi-agent skill change
mharrell Dads1R67vp		VDN	2001	10/23/00	12:13 AM	SUCCESS	Multi-agent skill change
mharrell Dads1R67vp		Vector	10	10/23/00	12:22 AM	SUCCESS	Multi-agent skill change
mharrell Dads1R67vp		Vector	10	10/24/00	12:11 AM	SUCCESS	Multi-agent skill change
mharrell Dads1R67vp		Vector	10	10/25/00	12:38 AM	SUCCESS	Multi-agent skill change
mharrell Dads1R67vp		Agent	1001	10/23/00	12:23 AM	SUCCESS	Multi-agent skill change
mharrell Dads1R67vp		Agent	1002	10/24/00	12:15 AM	SUCCESS	Multi-agent skill change

ACD Administration Log window field descriptions

The following table provides descriptions for the fields on the **ACD Administration Log** window:

Field	Description
CMS User Ids:	The login(s) of the user(s) to display in the report. If changes were made to the ACD with the specified IDs, those user IDs and the associated changes will be displayed.
Dates:	The date or range of dates to be covered in the report. Only those administrative changes made on or within the date(s) specified will be present in the report.
Times:	A range of time for which log entries are to be displayed. Only those administrative changes made within this time range will be present in the report.
ACDs(n):	The ACD(s) to include in the report.
VDNs(n):	The VDN(s) to include in the report.
Vectors(n):	The Vector(s) to include in the report.
Agents(n):	The login ID(s) to include in the report.

Chapter 12: Using Solaris

Avaya CMS uses the *Solaris 8* operating system on the Sun computer platform to communicate with terminals and printers, to log errors, and to perform operations. This section addresses how to perform several procedures using Sun Microsystems, Inc. *Solaris* operating system commands.

Contents

This section contains the following topics:

- [Logging in to CMS](#) on page 707
- [Administering passwords](#) on page 711
- [Using Solaris printer commands](#) on page 715

Before you begin

Be cautious when accessing the *Solaris* system and running *Solaris* system commands. Damage can result to your *CMS* system if you use the *Solaris* system commands incorrectly. Before you run any *Solaris* system command, be sure you know what effect it will have.

Logging in to CMS

This section contains procedures for logging in to *CMS* through methods other than using *Supervisor*. Some administrators will need to do this in order to access capabilities not available through the Supervisor interface.

Contents

This section contains the following topics:

- [Logging in to CMS from the remote console](#) on page 708
- [Logging in to CMS from the server console](#) on page 709

Logging in to CMS from the remote console

This procedure describes how to log in to *CMS* from a remote console. Most users log in to *CMS* remotely.



Important:

Do not allow users to share the same login ID as this action will use up *Solaris* system processes.

Steps

1. At the Login : prompt, enter your login ID.

The Password : prompt is displayed.

2. Enter your password.

A prompt for the terminal type is displayed.

3. Enter your terminal type.

If you use a login other than *cms*, *CMS* will automatically open to the **CMS Main Menu**.

If *cms* is used as the login, you will have to enter *cms* a second time at the \$ prompt before the **Main Menu** will be displayed

Logging in to CMS from the server console

This procedure describes how to log in to *CMS* from the *CMS* server console. Logging in to *CMS* at the server is occasionally necessary in order to perform certain functions, such as a CMSADM backup or other administration functions that require you to switch to single-user mode.

! Important:

Users who use a `/usr/bin/cms` shell will not be able to log in to *CMS* through the Common Desktop Environment (CDE).

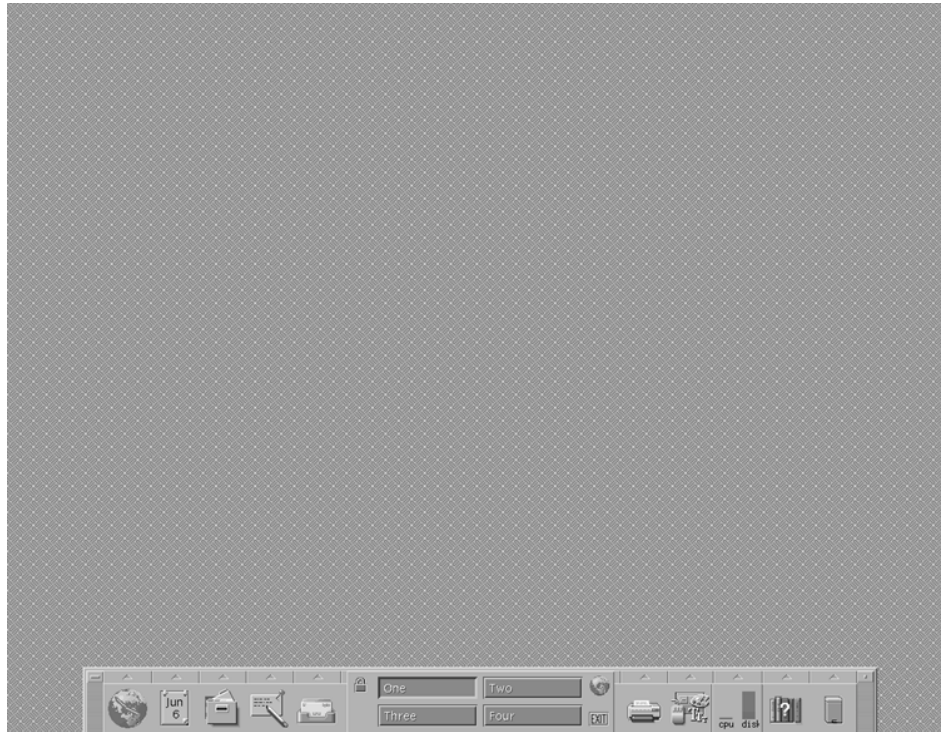
To remedy this problem, you can either use the `/usr/bin/ksh` shell or use a command line login. The command line login will not use the CDE.

Steps

To log in to *CMS* at the server:

1. If the server has just been rebooted or inactive for an extended period of time, the console may be password-protected. If this is the case, unlock the console by entering your authorized username (if necessary) and password in the appropriate login console fields.

Solaris displays the CDE interface.



2. Right-click the cursor in an empty area within the desktop space.

The **Workspace Menu** is displayed.

3. Depending on how *CMS* was installed, choose one of the following alternatives:

- If the CMS XTERM option is displayed in the Workspace Menu, you can open an xterm window directly by selecting that option.
- If the CMS XTERM option is not displayed, choose **Tools > Terminal** from the **Workspace Menu** to open a terminal window. At the command prompt, enter **xterm** to open an xterm window.

An xterm window is displayed with a # prompt.

Administering passwords

For system security, passwords are required for all *CMS* user login IDs. If a password is not entered on your first login, the system will prevent you from continuing until one is supplied.

CMS users can enter and change their passwords, but only a *CMS* administrator working on the Sun Microsystems, Inc. *Solaris*® system can replace a forgotten password.

Contents

This section contains the following topics:

- [Changing a user's password](#) on page 712
- [Administering password aging](#) on page 714

Before you begin

The following items should be read and understood before attempting to administer passwords:

- Password administration should only be done by an administrator with the password for the *root* user.
- Forcing a password change and administering the Password Aging feature can only be done through the *CMS* ASCII interface. The ASCII interface is available through the following methods:
 - A *Terminal Emulator* connection to the *CMS* server
 - A telnet session to the *CMS* server
 - Direct interaction with the *CMS* server
- Users should choose a password with no less than six characters. The password must have at least one character as a number or special character and have a minimum of two alphabetic characters.
- When changing a password, the new password must have at least three characters that are different from the previous password.

See [Chapter 9: Administering user permissions](#) for more information on special characters.

Changing a user's password

When a user's password expires or it is forcibly made to expire by an administrator, the user is presented with a prompt or window during the *CMS* login process that allows the entry of a new password. The following procedure allows an administrator to cause a user's password to expire so that the user must enter a new password upon their next login attempt.

Steps

If a user forgets their password, perform the following procedure:

1. From the *CMS Main Menu*, highlight the **Commands** Screen-Labeled Key (SLK).

CMS displays the **Commands** menu.

2. Select **UNIX (r) system**.

The screen clears and a \$ prompt is displayed.

3. Enter the following command:

su

4. At the Password : prompt, enter the *root* password.

The # prompt is displayed.

5. Enter the following command:

passwd <userid>

Where **<userid>** is the ID of the user who needs a new password.

Solaris displays a prompt for the new password.

6. Enter a new password for the user.

Solaris displays the # prompt.

7. Enter the following command:

passwd -f <userid>

Where **<userid>** is the ID of the user with a new password.

Solaris displays the # prompt.

The **passwd -f** command will force the user to change their password the next time they log in to *CMS*.

8. Enter the following command:

exit

Solaris displays the \$ prompt.

9. Enter the following command and press the **Enter** key:

exit

CMS displays the **Main Menu**.

Administering password aging

This section provides introductory and prerequisite information regarding the password aging feature of *CMS*.

Password aging is a feature that forces *CMS* users to change their password after a specified number of weeks have passed. Once this feature is activated, all users are required to change their passwords when the expiration period is reached.

Before you begin

 Important:

If you have a custom configuration from the Avaya Professional Services Organization (PSO) or use third-party applications on your *CMS* server, you must contact the PSO before enabling the password aging feature so that customizations are not affected. The PSO can be contacted through the technical support telephone number given in [CMS Helpline and support services](#) on page 18 of the [About this information product](#) chapter.

The following items should be read and understood before attempting to change the password aging feature:

- The number of weeks that pass before a password change is required can range from 1 to 52 weeks. The default value for this feature is 9 weeks.
- The password aging feature is only available through the **cmsadm** menu in the ASCII interface of *CMS*. This feature is not accessible through *Avaya CMS Supervisor*.

Steps

For more information and procedures for administering the password aging feature, see *Avaya CMS R3V11 Software Installation, Maintenance, and Troubleshooting*, 585-215-115.

Using Solaris printer commands

The *Solaris* commands for performing printer administration can be found in *Avaya CMS Terminals, Printers, and Modems*, 585-215-874.

Note:

It is recommended that you use the port administration tool instead of the Solaris tools to administer terminals, printers, and modems. The port administration tool keeps a record of all administrative activity in a format that is more structured than the Solaris tools. Once you start using the port administration tool, you should consistently use it for all port administration.

Chapter 13: Using timetables and shortcuts

This section provides information on timetables and shortcuts and how to create and administer them. Timetables and shortcuts are used to run multiple administrative tasks and are only available through the *CMS* ASCII interface.

Access to the *CMS* ASCII interface can be done through the following methods:

- *Terminal Emulator*
- Telnet session to the *CMS*
- Direct interaction with the *CMS* server console

Contents

This section contains the following topics:

- [Timetables](#) on page 719
- [Shortcuts](#) on page 747

Timetables

A timetable is a *CMS* feature that enables the scheduling of one or more administrative tasks. Each timetable can consist of up to 100 tasks and can be scheduled to run at any specific time. When you are creating a timetable, *CMS* records the tasks you perform and includes them in the timetable. This feature is similar to macros in many PC applications that perform multiple tasks or actions when the single macro is run.

Timetables are better suited for mission-critical tasks than *Supervisor* scripts. This is due to the fact that scripts reside on the PC where they were created. If network difficulties occur or if the PC where the script resides is powered down, the script cannot run. Timetables run directly on the *CMS* server and do not suffer from such problems.

Contents

This section contains the following topics:

- [Creating and scheduling a timetable](#) on page 722
- [Adding tasks to a timetable](#) on page 726
- [Listing all timetables](#) on page 728
- [Copying a timetable](#) on page 729
- [Copying timetable tasks](#) on page 731
- [Modifying timetable tasks](#) on page 734
- [Editing timetables globally](#) on page 736
- [Globally editing tasks in a timetable](#) on page 739
- [Deleting tasks from a timetable](#) on page 743
- [Deleting a timetable](#) on page 745

Before you begin

The following items should be read and understood before working with timetables:

General

- You cannot schedule real-time reports, Vector Contents, or custom report creation through a timetable.
- Timetables run in the background, not in the terminal session.
- Timetables that fail at some point during execution are logged in the Maintenance Error Log Report.
- Up to five timetables can be scheduled to run at the same time.
- You can have tasks associated with different ACDs in the same timetable.
- Do not create a timetable that attempts to write a file in the home directory of different user.
- The ACD that is currently selected when a timetable task is created will be the ACD on which the task runs. To change the ACD, you must delete the task and reset the current ACD before adding the correct task.
- When a *CMS* user is deleted, any timetables associated with that user ID are also deleted. For this reason, it is recommended that mission-critical timetables be created under the *cms* user ID.
- If the System Administration Terminal (SAT) terminal is still logged in to the MultiVantage system and is displaying a screen used in timetables, those timetables will not run.
- Timetables cannot run if *CMS* is in single-user mode.

Printing

- You cannot select the terminal as the destination for report output through a timetable.
- To print a report more than once from a timetable, you must enter a task for each copy of the report.
- Print jobs from timetables go to the default printer for the user who owns the timetable unless otherwise specified when the timetable is created. If the default printer for a user is changed, there is no need to edit the timetable as *CMS* automatically sends the print jobs from the timetable to the new default printer.
- If a user specifies a printer other than their default printer for a timetable task and that printer is out of service, the timetable will not execute.
- If the printer jams while attempting to print timetable tasks, you must resubmit the request that did not print.

Backups

- Timetables for incremental and full backups are created when the system is installed, but are not scheduled.
- Be sure to schedule backups to run either before archiving begins or after archiving has been completed.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- To view timetables, the user ID used to log in to this *CMS* session requires *read* permission for the **Timetables** feature, the requested *CMS* actions, and any ACD entities accessed by the timetable.
- To add, delete, or modify timetables, the user ID used to log in to this *CMS* session requires *write* permission for the **Timetables** feature.
- Users who are not Administrators can view and copy timetables from other users, but they cannot add, delete, or modify the timetables or the task entries.
- Users with Administrator permissions can add, delete, and modify timetables created by other users.
- If a timetable contains tasks for which the user does not have adequate permissions, the timetable will fail.

Creating and scheduling a timetable

This topic provides the procedure for creating and scheduling a timetable through the CMS ASCII interface.

Steps

To create a timetable:

1. From the **CMS Main Menu**, select the **Keep** Screen-Labeled Key (SLK).

Depending on the connection method to the CMS interface, this action can be accomplished through the following methods:

- For *Terminal Emulator*, select the **F4** key.
- From the CMS console, press the **F4** key.
- For a telnet session from a PC, press **Ctrl+P, 4**.

2. Select **Timetable** and press the **Enter** key.

CMS displays the **Timetable** window.

```

Timetable                                     test1
-----
Timetable name: _____
Description: _____
User ID: cms
Start time: _____
Start date: _____
Frequency and attributes (Select only one):
<_> Once
<_> Dates: _____
<_> Hourly, Stop time: 11:59 PM
<_> Daily,
Hourly/Daily Days (Select any you wish):
[x] Sunday [x] Tuesday [x] Thursday [x] Saturday
[x] Monday [x] Wednesday [x] Friday
This timetable will run on this or another CMS server
<_> Run only on this CMS server*
<_> Run on this or another CMS server*
*These fields not used for Find one or List all

Add
Copy
Delete
Find one
Get contents
Global edit
List all
Modify
Next
Previous
21x68
  
```

3. In the **Timetable name:** field, enter a unique name for this timetable. The name of the timetable cannot be changed after it has been created. Every timetable must have a unique name.

The following list provides the types of characters that can be entered in this field:

- Alphanumeric (A-z, 0-9)
- Underscore (_)
- Blank ()
- Comma (,)
- Period (.)
- Single Quotation Marks (')
- Plus sign (+)

4. In the **Description:** field, enter a description for the timetable.

This field is optional.

5. In the **User ID:** field, the user ID currently logged in is displayed. If you are an administrator and want to create this timetable for another user ID, enter that user ID in this field.
6. In the **Start time:** field, enter the time when the timetable will be executed. If you do not wish to schedule the timetable at this time, leave this field blank.

This field can accept time in the following formats:

- HH AM/PM
- HH:MM AM/PM
- 24-hour (00:00 - 23:59)

If AM/PM is not specified, *CMS* assumes that the time entered is in the 24-hour format.

7. In the **Start date:** field, enter the date on which the timetable will begin running.

Use one of the following formats for entering the date in this field:

- MM/DD/YY – For example, 12/12/01. Do not enter four-digits years in this field.
- Relative format – For example, entering a 1 specifies the timetable will begin one day from today (tomorrow).



Important:

If you do not wish to schedule the time table at this point, leave the **Start time:** and **Start date:** fields blank, ensure an x is in the **Once** field, and skip ahead to Step 11.

8. In the **Frequency and attributes:** group, choose from the following options:
 - **Once** – This option runs the timetable one time for the date and time specified in the **Start time:** and **Start date:** fields. This is the default value for this field group.
 - **Dates:** – This option runs the timetable on specific dates. Enter the dates in the fields provided for this option.
 - **Hourly** – This option runs the timetable each hour. In the **Stop time:** field, enter the time when the timetable should stop running.
 - **Daily** – This option runs the timetable on the selected days in the **Hourly/Daily Days** group.
9. If the **Hourly** or **Daily** option was selected in the previous step, place an x next to the days in the **Hourly/Daily Days** group for which the timetable should run.
10. Place an x in one of the following options:
 - **Run only on this CMS server** – The timetable will run only on this *CMS* server. If this timetable is backed up and migrated to another *CMS* server, it will not run.
 - **Run on this or another CMS server** – The timetable is capable of running on this or any other *CMS* server. If this timetable is backed up and migrated to another *CMS* server, it will function normally.
11. Press the **Enter** key, highlight the **Add** item on the action list by using the arrow keys on the keyboard, and press **Enter** again.

The window displays a **Working** message. If the timetable name is currently present, **already exists** displays on the status line and you must enter a different timetable name in the **Timetable name:** field. If all entries are valid, the **Main Menu** displays with **Keeping Entries** displayed in the border.
12. Select a task from the **CMS Main Menu** that will be recorded to this new timetable.

CMS displays an **Entries Stored** in the status line of the current window when the task is run.

To run an historical report for the system:

 - a. Select **Reports** from the **Main Menu**.
 - b. Select **Historical**.
 - c. Select **System**.
 - d. Select **System**.
 - e. Select **Daily**.

CMS displays the report window.
13. Enter the required information in the **Split(s)/Skill(s)** and **Date** fields.

The **Date** field can accept relative dates; for example, 0 represents today and -1 represents yesterday.

14. Press the **Enter** key to access the action list, select the menu item that performs the necessary action, and then press the **Enter** key again.

CMS displays a confirmation window.

It is possible to create more than one timetable task from a window. For example, suppose you want historical split/skill summary interval reports for skills 1 through 9, and you also want the same date and times for each report. To create this report, perform the following steps:

- a. Go to the report window and enter the following data:
 - Enter **1** for the skill number.
 - Enter **0** for the date.
 - Enter **8:00-16:00** for the times.
 - b. Select **Run** on the action list. This creates a timetable task for skill 1.
 - c. Returning to the report input window, enter **2** for the skill number and select **Run** on the action list. This creates a timetable task for skill 2. Repeat the same process for skills 3 through 9.
15. Exit the window for the task and return to the **Main Menu**.
 16. To add more tasks to the timetable, return to Step 12. Otherwise, open the **Keep SLK** menu and then select the **Stop** option.

CMS displays a confirmation window asking if the timetable should be saved.

17. When *CMS* displays the confirmation window, press the **Y** key for **Yes** and then the **Enter** key to save the task.

Note:

To exit the timetable at any time without saving your changes, select **Stop** from the **Keep SLK** menu and then enter **n** in the confirmation window.

18. Select the **Exit SLK** to close the **Timetable** window.

Adding tasks to a timetable

This topic provides the procedure for adding tasks to an existing timetable. This feature enables you to add tasks to a timetable in the same way you added tasks when you first created the timetable.

Steps

To add tasks to a timetable:

1. From the **CMS Main Menu**, select the **Keep** Screen-Labeled Key (SLK).
2. Select **Timetable** and press the **Enter** key.

CMS displays the **Timetable** window.

3. Press **Ctrl + Z**.

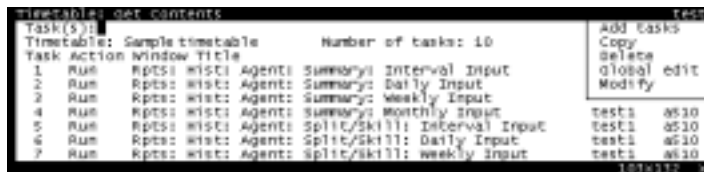
The fields in the window are cleared of all default information.

4. In the **Timetable name** field, enter the name of the timetable to which you want to add a task.
5. Press the **Enter** key.

CMS shifts focus to the action list.

6. In the action list, use the arrow keys to select **Get contents** and press the **Enter** key.

CMS displays the **Timetable: Get Contents** window.



7. In the **Task(s):** field, enter the number of the task that you want to precede the task being added.

If the task being added should appear as the fifth task, enter 4 in the **Task(s):** field.

To add a task to the beginning of the timetable, leave the **Task(s):** field blank. The new task is added before the first task.

To add tasks to a timetable with no tasks, leave the **Task(s):** field blank.

8. Press the **Enter** key.

CMS shifts focus to the action list.

9. Use the arrow keys to highlight the **Add tasks** item and press the **Enter** key.

CMS displays the **Main Menu** and is waiting for you to perform an action that it can add as a task. The status line of the **Main Menu** displays **Keeping Entries**.

10. Perform the task that you wish to have added to timetable. For more information on the steps necessary in adding a task to a timetable, see Step 12 in [Creating and scheduling a timetable](#) on page 722.

When the task is performed, CMS displays **Entries Stored** in the status line.

11. Exit the task window.

CMS displays the **Main Menu**.

At this point, more tasks can be added simply by performing them. These tasks will be added to the timetable in order following the previous task.

12. If you finished adding tasks to the timetable, open the **Keep** SLK menu and then select the **Stop** option.

CMS displays a confirmation window asking if the timetable should be saved.

13. Press the **Y** key for **Yes** and then the **Enter** key.

CMS saves the timetable with the newly added tasks and displays the **Timetable: Get Contents** window.

Listing all timetables

This topic provides the procedure for listing all timetables that currently exist in the *CMS* database. Listing all timetables can assist in finding specific timetables when you cannot remember the entire name of a timetable. It is also useful in helping to determine if too many timetables are scheduled to run at the same time.

Steps

To list all timetables:

1. From the *CMS Main Menu*, select the **Keep** Screen-Labeled Key (SLK).

2. On the **Keep** SLK menu, select **Timetable**.

CMS displays the **Timetable** window.

3. Press **Ctrl + Z**.

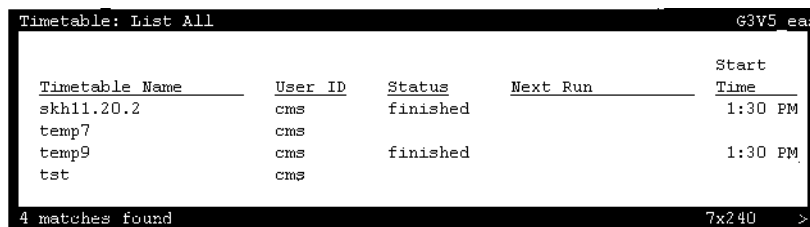
CMS clears the default information from all fields in the **Timetable** window.

4. Press the **Enter** key.

CMS shifts focus to the action list.

5. Using the arrow keys, move the cursor to the **List all** menu item and press the **Enter** key.

CMS displays the **Timetable: List All** window listing all timetables.



The screenshot shows a terminal window titled 'Timetable: List All' with a user ID 'G3V5 eas'. It displays a table with the following data:

Timetable Name	User ID	Status	Next Run	Start Time
skh11.20.2	cms	finished		1:30 PM
temp7	cms			
temp9	cms	finished		1:30 PM
tst	cms			

At the bottom of the window, it says '4 matches found' and '7x240'.

Use the right- and left-arrow keys to scroll to the other fields in this window.

The following list describes the entries that can appear in the **Status** field.

- **Finished** – This message indicates that the timetable was scheduled to run once and it completed successfully.
- **Failed** – This message indicates that the timetable failed to run successfully for the last scheduled run time.
- **Successful** – This message indicates that the timetable completed successfully.
- **Unscheduled** – This message indicates that the timetable does not have a start time or start date.
- **Running** – This message indicates that the timetable is currently running.

Copying a timetable

This topic provides the procedure for copying an existing timetable to a new timetable. Although you can copy timetables from other users, you cannot copy over an existing timetable. When you copy a timetable, the scheduling information and tasks in the timetable are copied. The name of the timetable that will be copied should be known before starting this procedure.

Steps

To copy a timetable:

1. Select **Timetable** on the **Keep** Screen-Labeled Key (SLK) menu.

CMS displays the **Timetable** window.

The screenshot shows the 'Timetable' window in a terminal-like interface. The window has a title bar 'Timetable' and a window control button 'test1'. The main area contains the following fields and options:

- Timetable name:
- Description:
- User ID:
- Start time:
- Start date:
- Frequency and attributes (Select only one):
 - ☒ Once
 - ☐ Dates:
 - ☐ Hourly, Stop time:
 - ☐ Daily,
- Hourly/Daily Days (Select any you wish):
 - ☒ Sunday ☒ Tuesday ☒ Thursday ☒ Saturday
 - ☒ Monday ☒ Wednesday ☒ Friday
- This timetable will run on this or another CMS server
 - ☐ Run only on this CMS server*
 - ☒ Run on this or another CMS server*

*These fields not used for Find one or List all

On the right side, there is a menu with the following options: Add, Copy, Delete, Find one, Get contents, Global edit, List all, Modify, Next, Previous.

The window size is indicated as 21x68 in the bottom right corner.

2. In the **Timetable name:** field, enter the name that will be used for the new timetable.

The following list provides the types of characters that can be entered in this field:

- Alphanumeric (A-z, 0-9)
- Underscore (_)
- Blank ()
- Comma (,)
- Period (.)
- Single Quotation Marks (')
- Plus sign (+)

3. In the **User ID:** field, confirm that your user ID is present.

Using timetables and shortcuts

4. Press the **Enter** key.

CMS shifts focus to the action list.

5. Use the arrow keys to highlight the **Copy** item in the action list and press the **Enter** key.

CMS displays the **Timetable: Copy** window.



6. In the **Copy from:** field, enter the name of the timetable to copy.
7. In the **User ID** field, enter the user ID that is currently associated with the existing timetable.
8. Press the **Enter** key.

CMS shifts focus to the action list of the **Timetable: Copy** window.

9. Press the **Enter** key again.

CMS displays **Successful** in the status bar.

If this new timetable is not scheduled to run, *CMS* displays a message notifying you that this copy needs to be rescheduled.

10. Select the **Exit** SLK to close the **Timetable** window.

Copying timetable tasks

This topic provides the procedure for duplicating tasks within a timetable.

Before you begin

The following items should be read and understood before copying timetable tasks:

- Only the owner of the timetable or an administrator can copy timetable tasks.
- You cannot copy a task more than once using the **Copy** command in the **Get Contents** window. You must reuse the **Copy** command to make additional copies of a task.
- You cannot copy more than 100 tasks into a timetable. If you exceed the limit, none of the tasks are copied. The status line will display a **Failed** message when this occurs.
- Copies of tasks can be placed after a specified task in the timetable, or each copy can be placed directly after the task from which it was copied. The default is to place the copies after the last task in the timetable.

Steps

To copy a timetable task:

1. From the **CMS Main Menu**, select the **Keep** Screen-Labeled Key (SLK).
2. Select **Timetable** and press the **Enter** key.

CMS displays the **Timetable** window.

The screenshot shows the 'Timetable' window in a terminal-like interface. The window has a title bar 'Timetable' and a window name 'test1'. It contains several input fields and a menu. The fields are: 'Timetable name:' with a cursor, 'Description:', 'User ID: cms', 'Start time:', 'Start date:', 'Frequency and attributes (Select only one):' with options '<x> Once' and '<_> Dates:', 'Hourly, Stop time: 11:59 PM', 'Daily,', and 'Hourly/Daily Days (Select any you wish):' with checkboxes for Sunday, Tuesday, Thursday, Saturday, Monday, Wednesday, and Friday. Below these is a note 'This timetable will run on this or another CMS server' with options '<_> Run only on this CMS server*' and '<x> Run on this or another CMS server*'. A footer note says '*These fields not used for Find one or List all'. The menu on the right lists: Add, Copy, Delete, Find one, Get contents, Global edit, List all, Modify, Next, and Previous. The bottom right corner shows '21x68'.

Using timetables and shortcuts

3. Press **Ctrl + Z**.

The fields in the window are cleared of all default information.

4. In the **Timetable name:** field, enter the name of the timetable containing the task to copy.

5. In the **User ID:** field, enter the user ID that created the timetable.

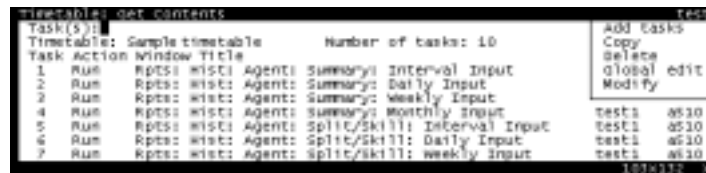
If you are not the owner or an administrator, you will not be able to copy tasks in the timetable.

6. Press the **Enter** key.

CMS shifts focus to the action list.

7. Use the arrow keys to highlight the **Get contents** menu item and press the **Enter** key.

CMS displays the **Timetable: Get Contents** window.

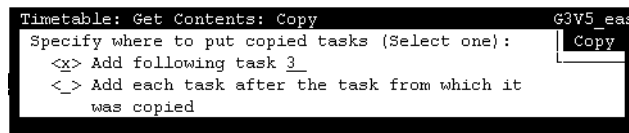


8. In the **Task(s):** field, enter the task number to copy and press the **Enter** key.

CMS shifts focus to the action list of the **Timetable: Get Contents** window.

9. Using the arrow keys, highlight the **Copy** menu item, and press the **Enter** key.

CMS displays the **Timetable: Get Contents: Copy** window.



10. Choose one of the following options by placing an **x** next to it:

- **Add following task** – The copied task will be placed immediately after the task specified in this field.
- **Add each task after the task from which it was copied** – The copied task is placed immediately after itself.

The default action is to place the copied task at the end of the list.

11. Press the **Enter** key.

CMS shifts focus to the action list.

12. Press the **Enter** key again.

CMS displays **Working** in the status line. When the operation completes, the status line displays **Successful**. *CMS* closes the **Copy** window and displays the **Get Contents** window.

If the operation fails, a message window appears stating the reason for the failure.

13. To close the **Get Contents** window, select the **Exit** SLK.

Modifying timetable tasks

This topic provides the procedure for modifying tasks within a timetable. The **Modify** feature allows you to modify the action or data associated with any task within the selected timetable.

Before you begin

The following items should be read and understood before modifying timetable tasks:

- Only the owner or an administrator can modify timetable tasks.
- The **Current** and **Main Menu** Screen-Labeled Keys (SLKs) are blocked while modifying tasks.
- If you press the **Exit** SLK without selecting a task action, a popup window is displayed stating that the task modification has been cancelled.
- To exit the timetable without saving any changes, select the **Stop** item from the **Keep** SLK menu.

Steps

To change a timetable task:

1. From the **CMS Main Menu**, select the **Keep** Screen-Labeled Key (SLK).
2. Select **Timetable** and press the **Enter** key.

CMS displays the **Timetable** window.

The screenshot shows the 'Timetable' window in a terminal-like interface. The window has a title bar with 'Timetable' on the left and 'test1' on the right. The main area contains several input fields and a list of options. On the right side, there is a vertical menu with options: Add, Copy, Delete, Find one, Get contents, Global edit, List all, Modify, Next, and Previous. The main area fields include: 'Timetable name:' with a cursor, 'Description:', 'User ID: cms', 'Start time:', 'Start date:', 'Frequency and attributes (Select only one):' with options '<x> Once' and '<_> Dates:', 'Hourly, Stop time: 11:59 PM', 'Daily,', 'Hourly/Daily Days (Select any you wish):' with checkboxes for Sunday through Saturday, and 'This timetable will run on this or another CMS server' with options '<_> Run only on this CMS server*' and '<x> Run on this or another CMS server*'. At the bottom, it says '*These fields not used for Find one or List all' and '21x68'.

3. Press **Ctrl + Z**.

The fields in the window are cleared of all default information.

4. In the **Timetable name:** field, enter the name of the timetable containing the task to modify.

5. In the **User ID:** field, enter the user ID that created the timetable.

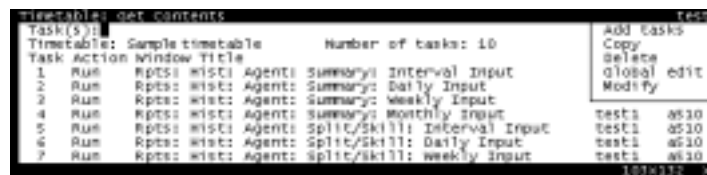
If you are not the owner or an administrator, you will not be able to modify tasks in the timetable.

6. Press the **Enter** key.

CMS shifts focus to the action list.

7. Use the arrow keys to highlight the **Get contents** menu item and press the **Enter** key.

CMS displays the **Timetable: Get Contents** window.



8. In the **Task(s):** field, enter the number of the task to modify and press the **Enter** key.

CMS shifts focus to the action list of the **Get Contents** window.

9. Using the arrow keys, highlight the **Modify** menu item and press the **Enter** key.

CMS displays a window for the specified task.

Example:



10. Make any necessary changes to the task.

11. When the changes have been made, press the **Enter** key.

CMS shifts focus to the action list.

12. Using the arrow keys, highlight the appropriate action to perform in the action list and press the **Enter** key.

CMS displays a confirmation window asking if changes should be saved.

13. To save the changes made to the task, press the **Y** key for 'Yes' and then press the **Enter** key.

CMS saves the task changes to the timetable and displays the **Get Contents** window.

14. To exit the **Get Contents** window, select the **Exit** SLK.

Editing timetables globally

Globally editing timetables changes the server compatibility for all timetables associated with a user ID.

Server compatibility of timetables can be one of the two following states:

- **Run only on this CMS server** – The timetable will run only on this *CMS* server. If this timetable is backed up and migrated to another *CMS* server, it will not run.
- **Run on this or another CMS server** – The timetable is capable of running on this or any other *CMS* server. If this timetable is backed up and migrated to another *CMS* server, it will function normally.

Before you begin

The following items should be read and understood before making global edits to timetable tasks:

- Only the owner of the timetable or an administrator can globally edit a timetable.
- If an error is made during a global edit, *CMS* displays an error message describing the nature of the problem. All errors must be corrected before *CMS* allows you to complete the modifications.

Steps

To edit a timetable globally:

1. From the *CMS Main Menu*, select the **Keep** Screen-Labeled Key (SLK).

2. Select **Timetable** and press the **Enter** key.

CMS displays the **Timetable** window.

3. Press **Ctrl + Z**.

The fields in the window are cleared of all default information.

4. In the **Timetable name:** field, enter the name of the timetable containing the tasks to modify globally.

5. Press the **Enter** key.

CMS shifts focus to the action list.

6. Using the arrow keys, highlight **Find one** and press the **Enter** key.

CMS locates the timetable and populates the remaining fields with the information from the timetable.

7. Press the **Enter** key.

CMS shifts focus to the action list.

8. Using the arrow keys, highlight **Global edit** and press the **Enter** key.

CMS displays the **Timetable: Global Edit** window.

Using timetables and shortcuts

9. Select one of the following options by placing an **x** in the associated field:

- **Run timetables only on this CMS server** – All timetables owned by the specified user ID will be modified so that they can only run on this *CMS* server. Timetables migrated to another server will not function.
- **Run timetables on this or another CMS server** – All timetables owned by the specified user ID will be modified so that they can run on the current *CMS* server or, if migrated, a different *CMS* server.

10. Press the **Enter** key.

CMS shifts focus to the action list and highlights the **Modify** action.

11. Press the **Enter** key again.

CMS will display a message in the status line of this window indicating how many timetables were updated.

12. Use the **Exit** SLK to close this window and return to the **Timetable** window.

The timetable displayed in the **Timetable** window does not update automatically. Use the **Find one** action to re-query for this table in order to show the current configuration.

Globally editing tasks in a timetable

This topic provides the procedure for changing multiple tasks in a timetable to use a common date, time, or printer destination. For example, you may want to run all reports within a timetable so that instead of reporting on data for today (relative date: 0), the reports will use data from yesterday (relative date: -1). Using the global edit feature can change the dates used for these reports in a simple series of steps instead of modifying each task separately. This feature can also be used to modify tasks that have different values for times, dates, or printer destinations so that all specified tasks use consistent values.

Before you begin

The following items should be read and understood before making global edits to timetable tasks:

- Only the owner of the timetable or an administrator can globally edit a timetable.
- If an error is made during a global edit, *CMS* displays an error message describing the nature of the problem. All errors must be corrected before *CMS* allows you to complete the modifications.

Steps

To edit multiple tasks within a timetable:

1. From the *CMS Main Menu*, select the **Keep** Screen-Labeled Key (SLK).

Using timetables and shortcuts

2. Select **Timetable** and press the **Enter** key.

CMS displays the **Timetable** window.

Timetable window showing fields for Timetable name, Description, User ID, Start time, Start date, Frequency and attributes, and a list of days. The window also includes a menu bar with options like Add, Copy, Delete, Find one, Get contents, Global edit, List all, Modify, Next, and Previous.

3. Press **Ctrl + Z**.

The fields in the window are cleared of all default information.

4. In the **Timetable name:** field, enter the name of the timetable containing the tasks to modify globally.

5. Press the **Enter** key.

CMS shifts focus to the action list.

6. Using the arrow keys, highlight **Find one** and press the **Enter** key.

CMS locates the timetable and populates the remaining fields with the information from the timetable.

7. Press the **Enter** key.

CMS shifts focus to the action list.

8. Using the arrow keys, highlight **Get contents** and press the **Enter** key.

CMS displays the **Timetable: Get Contents** window.

Timetable: Get Contents window showing a list of tasks and their details. The window also includes a menu bar with options like Add tasks, Copy, Delete, Global edit, and Modify.

Task(s)	Task Action Window Title	Number of tasks: 10
1	Run Rpts: Wkst: Agent: Summary: Interval Input	
2	Run Rpts: Wkst: Agent: Summary: Daily Input	
2	Run Rpts: Wkst: Agent: Summary: Weekly Input	
4	Run Rpts: Wkst: Agent: Summary: Monthly Input	
5	Run Rpts: Wkst: Agent: Split/Skill: Interval Input	
6	Run Rpts: Wkst: Agent: Split/Skill: Daily Input	
7	Run Rpts: Wkst: Agent: Split/Skill: Weekly Input	

9. In the **Task(s):** field, enter the tasks to modify using the following methods:

- Range – For example, 1-50.
- Separate values – For example, 1; 3; 6; 7.
- Combination – For example, 1; 3-7; 10.

10. After the tasks to globally edit have been specified, press the **Enter** key.

CMS shifts focus to the action list.

11. Using the arrow keys, highlight **Global edit** and press the **Enter** key.

CMS displays the **Timetable: Get contents: Global edit** window.

12. Place an **x** in the field that will be changed for all specified tasks.

13. In the field to the right of the selected option, enter one or more values as necessary.

To have multiple reports retrieve contact center data that occurred at 2:00 PM, place an **x** in the **Times** option and enter **2:00 PM** or **14:00** in the associated field to the right.

For the **Date/Dates** option, enter dates in either MM/DD/YY format or the relative format based on today (**0** for today, **-1** for yesterday). You can separate individual data entry items with semicolons (;) and value ranges with hyphens (-) between entries.

14. Press the **Enter** key.

CMS shifts focus to the action list.

15. Using the arrow keys, highlight **Confirm** and press the **Enter** key.

CMS displays the **Timetable: Get Contents: Global Edit: Confirm** window.

This window is used to confirm the tasks that will be modified. No changes have been made at this point. If some specified tasks do not appear in the confirmation window, it is because those tasks do not use the data specified when they are run. For example, some reports only use a date value to retrieve information; therefore, changing the time value will not modify this task. If the tasks listed in this window are not correct, you can go back to the previous windows and make adjustments as necessary.

16. Select the **Exit** SLK.

CMS closes the **Timetable: Get Contents: Global Edit: Confirm** window.

17. If you are satisfied with the changes, press the **Enter** key.

CMS shifts focus to the action list.

Using timetables and shortcuts

18. Using the arrow keys, highlight **Modify** and press the **Enter** key.

CMS modifies the tasks in this timetable with the data values specified, closes the **Timetable: Get Contents: Global Edit** window, and displays **Successful** in the status line when the operation is complete.

19. Close the **Timetable: Get Contents** by selecting the **Exit** SLK.

Deleting tasks from a timetable

This topic provides the procedure for deleting individual tasks from a timetable.

Before you begin

The following items should be read and understood before deleting tasks from a timetable:

- Only the owner of the timetable or an administrator can delete tasks from a timetable.
- To exit the timetable without saving any changes, select the **Stop** item from the **Keep** SLK menu.

Steps

To delete a task from a timetable:

1. From the **CMS Main Menu**, select the **Keep** Screen-Labeled Key (SLK).
2. Select **Timetable** and press the **Enter** key.

CMS displays the **Timetable** window.

3. Press **Ctrl + Z**.

The fields in the window are cleared of all default information.

4. In the **Timetable name:** field, enter the name of the timetable containing the tasks to modify globally.
5. Press the **Enter** key.

CMS shifts focus to the action list.

Using timetables and shortcuts

- Using the arrow keys, highlight **Find one** and press the **Enter** key.

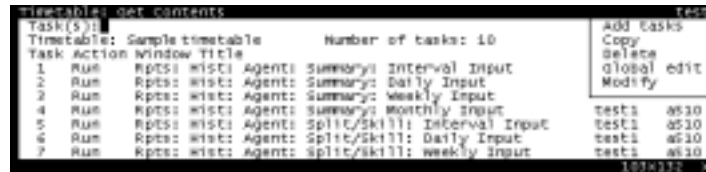
CMS locates the timetable and populates the remaining fields with the information from the timetable.

- Press the **Enter** key.

CMS shifts focus to the action list.

- Using the arrow keys, highlight **Get contents** and press the **Enter** key.

CMS displays the **Timetable: Get Contents** window.



- In the **Task(s):** field, enter the number of the task to delete.
- Press the **Enter** key.

CMS shifts focus to the action list.
- Using the arrow keys, highlight **Delete** and press the **Enter** key.

CMS displays a confirmation window.
- Press the **Y** key for 'Yes' and then the **Enter** key to save the changes.

CMS deletes the task from the timetable, the tasks are renumbered, the timetable is saved, and the status line displays a **Successful** message.
- Select the **Exit** SLK to close the **Timetable: Get Contents** window.

Deleting a timetable

This topic provides the procedure for deleting a timetable.

Before you begin

Only the owner of the timetable or an administrator can delete timetables.

Steps

To delete a timetable:

1. From the *CMS Main Menu*, select the **Keep** Screen-Labeled Key (SLK).
2. Select **Timetable** and press the **Enter** key.

CMS displays the **Timetable** window.

Timetable test1

Timetable name:

Description:

User ID: cms

Start time:

Start date:

Frequency and attributes (Select only one):

☒ Once

☐ Dates:

☐ Hourly, Stop time: 11:59 PM

☐ Daily,

Hourly/Daily Days (Select any you wish):

☒ Sunday ☒ Tuesday ☒ Thursday ☒ Saturday

☒ Monday ☒ Wednesday ☒ Friday

This timetable will run on this or another CMS server

☐ Run only on this CMS server*

☒ Run on this or another CMS server*

*These fields not used for Find one or List all

21x68

3. Press **Ctrl + Z**.

The fields in the window are cleared of all default information.

4. In the **Timetable name:** field, enter the name of the timetable containing the tasks to modify globally.
5. Press the **Enter** key.

CMS shifts focus to the action list.

6. Using the arrow keys, highlight **Find one** and press the **Enter** key.

CMS locates the timetable and populates the remaining fields with the information from the timetable.

Using timetables and shortcuts

7. Press the **Enter** key.

CMS shifts focus to the action list.

8. Using the arrow keys, highlight **Delete** and press the **Enter** key.

CMS displays a confirmation window.

9. Press the **Y** key for 'Yes' and then the **Enter** key.

CMS deletes the timetable and a successful message is displayed in the status line.

Shortcuts

A shortcut is similar to a timetable except that it is not run based on time but rather when it is executed by a user. A shortcut is a fast and easy way for an ASCII terminal user to select windows that are used often. For example, you can create a shortcut for two different real-time reports that you normally view throughout the day. The shortcut displays these reports, fills out the input windows, and places them on the terminal screen so that they can both be viewed at once. Although useful for other tasks, shortcuts are most commonly used to run real-time reports.

Contents

This section contains the following topics:

- [Creating a shortcut](#) on page 749
- [Adding tasks to a shortcut](#) on page 751
- [Running a shortcut](#) on page 753
- [Modifying a shortcut description](#) on page 754
- [Copying a shortcut](#) on page 755
- [Copying shortcut tasks](#) on page 757
- [Modifying shortcut tasks](#) on page 759
- [Deleting shortcut tasks](#) on page 761
- [Deleting a shortcut](#) on page 763

Before you begin

The following items should be read and understood before working with shortcuts:

- Shortcuts are only available through the ASCII interface to *CMS*.
- Each user can create a maximum of ten shortcuts.
- Once a shortcut has started running, it cannot be stopped.
- Shortcuts can be copied from those created by other users.
- You cannot exceed your maximum allowable window count by using a shortcut.
- You cannot create a custom report using a shortcut.

- When using the **Keep** mode to record the tasks for a shortcut, the **Current** Screen-Labeled Key (SLK) will only shift focus between windows in the shortcut window. It will not shift focus to windows that were open before you entered **Keep** mode.
- When you create a shortcut, tasks that have errors in them are saved, but they will not execute when the shortcut is run. The task containing the error will display an error message which causes the shortcut to stop. The error must be corrected before the shortcut can run properly. To delete the error, exit the shortcut without saving changes or edit the shortcut if the error has already been saved.
- Deleting a *CMS* user who owns shortcuts results in those shortcuts also being deleted.

Permissions

Depending on the procedure that you want to perform, you need the following permissions:

- All users are allowed to create shortcuts.
- You must have *read* and *write* permissions for any *CMS* subsystems and ACD entities associated with the tasks included in a shortcut.
- Users without the *Administrator* permission can view and copy the shortcuts of other users, but they cannot add, modify, or delete those shortcuts.
- If the access permissions for a user are changed, it could cause the shortcuts of that user to not run properly. For example, removing skill permissions for a user can result in a shortcut report not running or displaying data for that skill.

Creating a shortcut

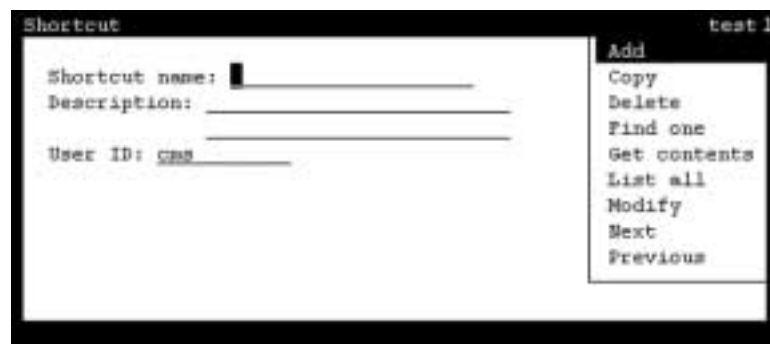
This topic provides the procedure for creating a shortcut and adding tasks for it to perform.

Steps

To create a shortcut:

1. From the **CMS Main Menu**, select the **Keep** Screen-Labeled Key (SLK).
2. Select **Shortcut** and press the **Enter** key.

CMS displays the **Shortcut** window.



The **User ID:** field shows the ID of the user who ran this command. Unless you have *Administrator* permissions, you will not be able to create a shortcut for another user.

3. In the **Shortcut name:** field, enter a unique name for this shortcut.

Keep the name for the shortcut simple as it becomes the name that must be entered when you wish to execute it from the **CMS Main Menu**.

4. In the **Description:** field, enter a brief description for the shortcut.

This field is optional.

5. Press the **Enter** key.

CMS shifts focus to the action list.

6. Highlight the **Add** item and press the **Enter** key.

CMS displays the **Main Menu**. *CMS* is now in **Keep** mode.

7. Use the **Main Menu** to select tasks. Multiple windows can be shown on the screen at one time.
8. Use the **Move** and **Size** items from the **Window** SLK menu to adjust the placement and dimensions of each window.

Using timetables and shortcuts

9. When satisfied with the report windows, input windows, and their placement and sizes on the screen, select the **Stop** item from the **Keep** SLK menu.

CMS displays a confirmation window asking if the shortcut should be saved.

10. Press the **Y** key for 'Yes' and then **Enter** to save the shortcut.

CMS displays the **Shortcut** window again and the status line displays a **Successful** message indicated that the shortcut was saved.

11. Select the **Exit** SLK to close the **Shortcut** window and return to the **Main Menu**.

Adding tasks to a shortcut

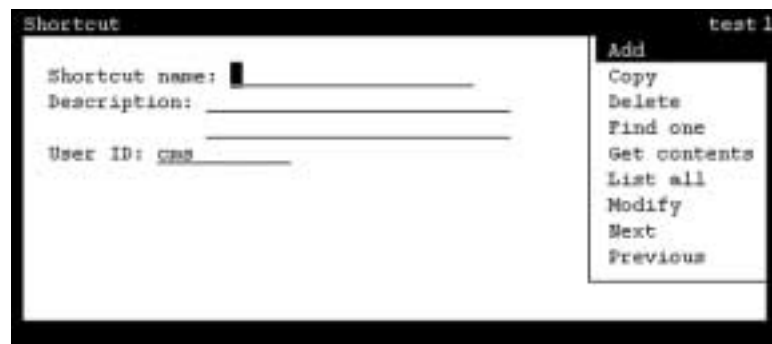
This topic provides the procedure for adding tasks to an existing shortcut.

Steps

To add tasks to a shortcut:

1. From the *CMS Main Menu*, select the **Keep** Screen-Labeled Key (SLK).
2. Select **Shortcut** and press the **Enter** key.

CMS displays the **Shortcut** window.

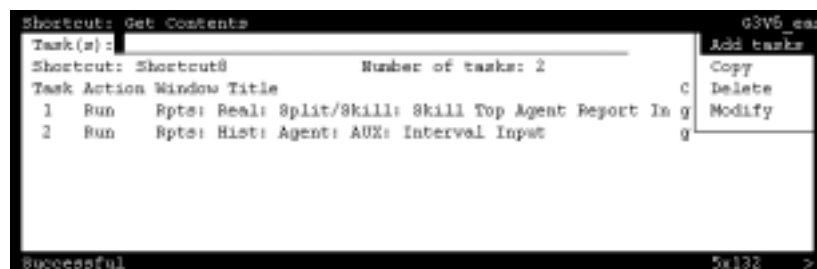


3. In the **Shortcut name:** field, enter the name of the shortcut which will have new tasks added.
4. Press the **Enter** key.

CMS shifts focus to the action list.

5. Highlight **Get contents** and press the **Enter** key.

CMS displays the **Shortcut: Get Contents** window.



6. In the **Task(s):** field, enter the number of the task that the new task will follow.
To add a task in the second position of the shortcut, enter **1** in the **Task(s):** field.
If you wish the new task to be in the first position, leave the **Task(s):** field blank.

Using timetables and shortcuts

7. Press the **Enter** key.

CMS shifts focus to the action list.

8. Highlight **Add tasks** and press the **Enter** key.

CMS displays the **Main Menu**.

9. On the **Main Menu**, use the normal menu items to perform the tasks you want to add to the shortcut.

When you have made and validated each action list selection, **Entries Stored** displays on the status line.

10. When you have finished performing tasks for the shortcut, select **Stop** from the **Keep SLK** menu.

CMS displays a confirmation asking if the changes should be saved.

11. Press the **Y** key for 'Yes' and then the **Enter** key.

CMS saves the tasks and displays the **Shortcut: Get Contents** window.

12. Select the **Exit SLK** to close the **Shortcut: Get Contents** window.

Running a shortcut

This topic provides the procedure for executing a shortcut.

Steps

To run a shortcut:

1. At the **CMS Main Menu**, press the ; (semicolon) key.

CMS selects the command line of the **Main Menu**.



2. Enter the name of the shortcut to run and press the **Enter** key.

The shortcut starts running and locks the keyboard until the shortcut finishes. When the shortcut finishes, the status line displays a **Successful** message.

Modifying a shortcut description

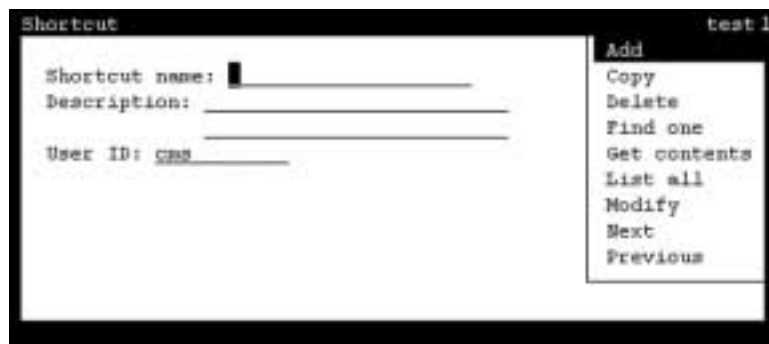
This topic provides the procedure for editing the name or description of a shortcut.

Steps

To edit a shortcut:

1. From the *CMS Main Menu*, select the **Keep** Screen-Labeled Key (SLK).
2. Select **Shortcut** and press the **Enter** key.

CMS displays the **Shortcut** window.



3. In the **Shortcut name:** field, enter the name of the shortcut to modify.
4. Press the **Enter** key.
CMS shifts focus to the action list.
5. Highlight **Find one** and press the **Enter** key.
CMS retrieves the shortcut and populates the **Description:** and **User ID:** fields with information from the shortcut.
6. Make the necessary change to the **Description:** field.
7. Press the **Enter** key.
CMS shifts focus to the action list.
8. Highlight **Modify** and press the **Enter** key.
CMS saves the changes to the shortcut displays a **Successful** message in the status line.
9. Select the **Exit** SLK to close the **Shortcut** window.

Copying a shortcut

This topic provides the procedure for copying an existing shortcut into a new shortcut. All users can copy shortcuts owned by other users. However, no shortcuts owned by your user ID, even as an *Administrator*, can be copied by you to another user. It is not possible to copy a shortcut over an existing shortcut.

Steps

To copy a shortcut:

1. From the **CMS Main Menu**, select the **Keep** Screen-Labeled Key (SLK).
2. Select **Shortcut** and press the **Enter** key.

CMS displays the **Shortcut** window.

3. In the **Shortcut name:** field, enter the name of the new shortcut that will be created.
4. In the **Description:** field, enter a brief phrase identifying the new shortcut.

This field is optional.

5. In the **User ID:** field, ensure your user ID is present.
6. Press the **Enter** key.

CMS shifts focus to the action list.

7. Highlight **Copy** and press the **Enter** key.

CMS displays the **Shortcut: Copy** window.

8. In the **Copy from:** field, enter the name of the shortcut to copy as the new shortcut.
9. In the **User ID:** field, enter the ID of the user that owns the shortcut to copy.

Using timetables and shortcuts

10. Press the **Enter** key.

CMS shifts focus to the action list.

11. Press the **Enter** key again.

CMS creates the new shortcut, closes the **Shortcut: Copy** window, and displays a **Successful** message in the status line.

12. Select the **Exit** SLK to close the **Shortcut** window.

Copying shortcut tasks

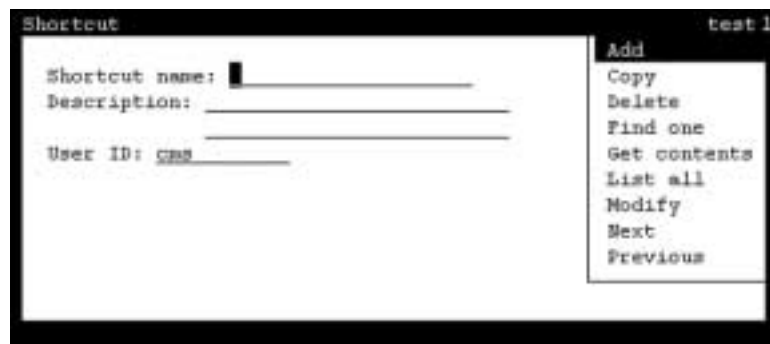
This topic provides the procedure for copying tasks within a shortcut.

Steps

To copy a shortcut task:

1. From the **CMS Main Menu**, select the **Keep** Screen-Labeled Key (SLK).
2. Select **Shortcut** and press the **Enter** key.

CMS displays the **Shortcut** window.

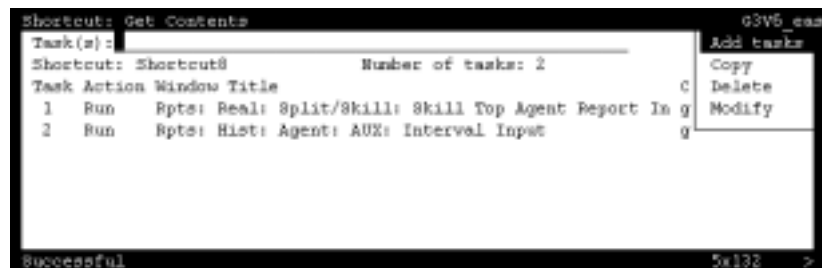


3. In the **Shortcut name:** field, enter the name of the shortcut in which a task will be copied.
4. Press the **Enter** key.

CMS shifts focus to the action list.

5. Highlight **Get contents** and press the **Enter** key.

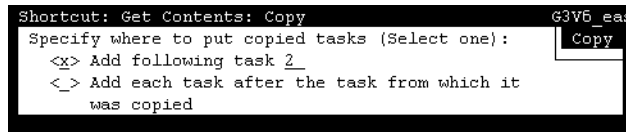
CMS displays the **Shortcut: Get contents** window.



6. In the **Task(s):** field, enter the number of the task to copy and press the **Enter** key.
- CMS shifts focus to the action list.

7. Highlight **Copy** and press the **Enter** key.

CMS displays the **Shortcut: Get Contents: Copy** window.



8. Place an **x** in one of the following options:

- **Add following task** – This option will create the task after the task number specified in the field to the right.
- **Add each task after the task from which it was copied** – This option will create the task and place it immediately following the original task. If you specified to make a copy of task #1, the copy will be created as task #2. Any other tasks are shifted to a higher number to accommodate this action.

9. Press the **Enter** key.

CMS shifts focus to the action list.

10. Press the **Enter** key again.

CMS copies the original task, creates the new task, closes the **Shortcut: Get Contents: Copy** window, and displays a **Successful** message in the status line.

If any sort of error occurs, the status line will display **Failed** and CMS displays an error message describing the nature of the error.

11. Select the **Exit** SLK to close the **Shortcut: Get Contents** window.

Modifying shortcut tasks

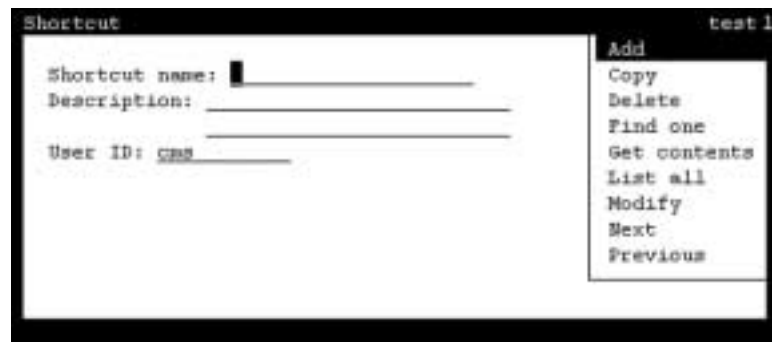
This topic provides the procedure for editing tasks within a shortcut.

Steps

To modify a shortcut task:

1. From the **CMS Main Menu**, select the **Keep** Screen-Labeled Key (SLK).
2. Select **Shortcut** and press the **Enter** key.

CMS displays the **Shortcut** window.



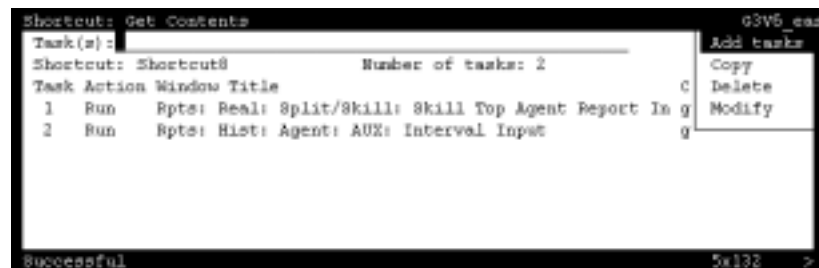
3. In the **Shortcut name:** field, enter the name of the shortcut where tasks will be modified.

4. Press the **Enter** key.

CMS shifts focus to the action list.

5. Highlight **Get contents** and press the **Enter** key.

CMS displays the **Shortcut: Get Contents** window.



6. In the **Task(s):** field, enter the number of the task to modify and press the **Enter** key.

CMS shifts focus to the action list.

7. Highlight **Modify** and press the **Enter** key.

CMS displays the input window of the specified task.

Using timetables and shortcuts

8. Change the input parameters of the window as necessary. For example, this might include changing the split, agent, or another entity on which a report is based. This can also include making changes to the size and position of the task window.
9. When the appropriate information has been entered, press the **Enter** key.
CMS shifts focus to the action list.
10. Highlight **Modify** and press the **Enter** key.
CMS displays a confirmation asking if the changes should be saved.
11. Press the **Y** key for 'Yes' and then the **Enter** key.
CMS saves the changes to the task, closes the task window, and displays a **Successful** message in the status line.
12. Select the **Exit** SLK to close the **Shortcut: Get Contents** window.

Deleting shortcut tasks

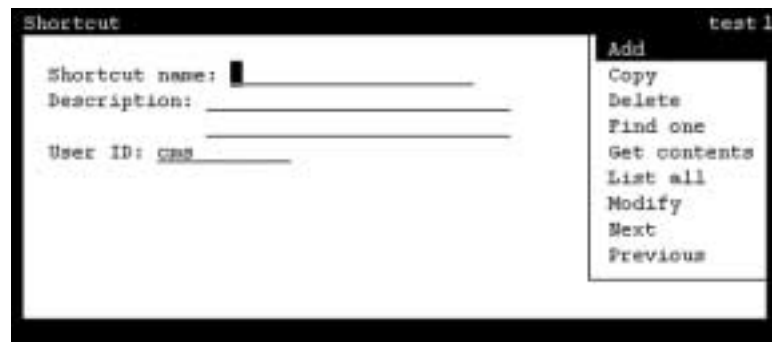
This topic provides the procedure for deleting a task from a shortcut.

Steps

To delete a shortcut task:

1. From the **CMS Main Menu**, select the **Keep** Screen-Labeled Key (SLK).
2. Select **Shortcut** and press the **Enter** key.

CMS displays the **Shortcut** window.

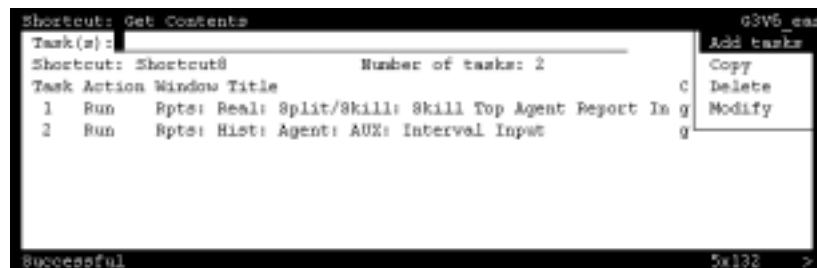


3. In the **Shortcut name:** field, enter the name of the shortcut containing the task to delete.
4. Press the **Enter** key.

CMS shifts focus to the action list.

5. Highlight **Get contents** and press the **Enter** key.

CMS displays the **Shortcut: Get Contents** window.



6. In the **Task(s):** field, enter the number of the task to delete.
7. Press the **Enter** key.

CMS shifts focus to the action list.

Using timetables and shortcuts

8. Highlight **Delete** and press the **Enter** key.

CMS displays a confirmation window asking if the changes to the shortcut should be saved.

9. Press the **Y** key for 'Yes' and then the **Enter** key.

CMS deletes the specified tasks and displays the **Shortcut: Get Contents** window.

10. Select the **Exit** SLK to close the **Shortcut: Get Contents** window.

Deleting a shortcut

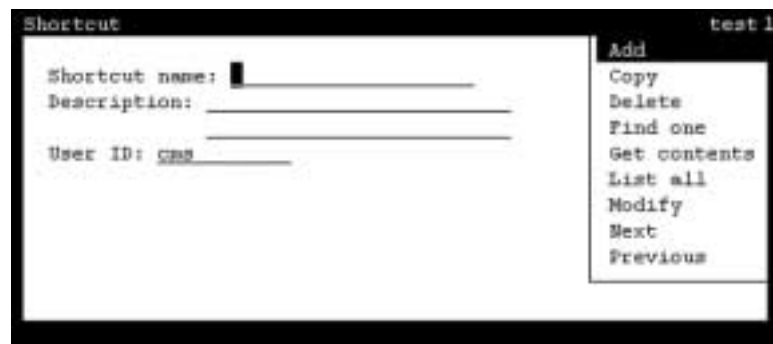
This topic provides the procedure for deleting a shortcut from the *CMS* server.

Steps

To delete a shortcut:

1. From the *CMS Main Menu*, select the **Keep** Screen-Labeled Key (SLK).
2. Select **Shortcut** and press the **Enter** key.

CMS displays the **Shortcut** window.



3. In the **Shortcut name:** field, enter the name of the shortcut to delete.
Shortcuts owned by other users cannot be deleted.
4. Press the **Enter** key.
CMS shifts focus to the action list.
5. Highlight **Find one** and press the **Enter** key.
CMS retrieves the information for the specified shortcut. If the shortcut with the name specified cannot be found, this will be indicated on the status line.
6. Verify that this is the shortcut to be deleted and press the **Enter** key.
CMS shifts focus to the action list.
7. Highlight **Delete** and press the **Enter** key.
CMS displays a confirmation window.
8. Press the **Y** key for 'Yes' and then the **Enter** key.
CMS deletes the specified shortcut and displays a **Successful** message in the status line.

Appendix A: Related Documentation

This appendix provides a listing of documentation for *CMS* and other Avaya contact center products. These documents can be found on the *Avaya Call Center R11 Documentation CD-ROM*.

Avaya Call Center Little Instruction Book for Basic Administration (585-210-505)

This document performs the follow functions:

- Describes basic contact center administration procedures through the use of MultiVantage systems, *CMS Supervisor* and *CMS*.
- Provides an overview of a contact center and familiarizes the user with *CMS* using the *CMS Supervisor* interface and its features.
- Describes the MultiVantage forms and fields used to administer the service observing capability, and instructions and tips on service observing.
- Describes the types of *CMS* backups that are available and recommendations on how and when to run them.
- Provides logs with recommendations for managing and organizing records to provide optimum system operations.
- Includes instructions on assigning dictionary names to contact center entities and automating features.

Avaya Call Center Little Instruction Book for Advanced Administration (585-210-506)

This document performs the following functions:

- Provides information on reconfiguring and displaying information about ACD agent features that have previously been administered on each of the ACDs.
- Provides step-by-step instructions for reconfiguring and displaying information about ACD contact center features that have been administered on the switch.
- Provides instruction on how to view the switch setup information as it was assigned during installation and how to view or change *CMS* system configurations.
- Provides an overview of how calls can be processed using the call vectoring feature and explains some options and related features.

- Provides a summary of Enhanced Look-Ahead Interflow (ELAI) and Best Service Routing (BSR) with tips for planning and administering multi-site applications, using vector commands.
- Describes how to manage call and agent selection methods using *Avaya Business Advocate*.

Avaya CMS R3V11 Software Installation, Maintenance, and Troubleshooting Guide (585-215-115)

This document performs the following functions:

- Lists the hardware and software requirements for *CMS*.
- Provides the procedures for installing *Solaris*, *CMS*, *Visual Vectors Server*, and support software.
- Provides information and procedures regarding the different backup methods in *CMS*.
- Provides procedures for configuring data storage.
- Provides procedures on setting up and administering mirrored systems.
- Describes how apply *Solaris* and *CMS* patches/updates.
- Lists methods on identifying problems with *CMS*.
- Lists error messages, their causes, and possible solutions.

Avaya CMS R3V11 Database Items and Calculations (585-780-702)

This document performs the following functions:

- Describes all database items and calculations in the *CMS* Database.
- Includes information about database structure, data types, contact center features tracked in the database, and MultiVantage (switch) cross-reference information.

Avaya CMS Custom Reports (585-215-822)

This document performs the following functions:

- Introduces the concepts regarding custom reports and the tools used in the creation of custom reports.
- Describes how to create a custom report.
- Provides procedures for defining, editing, and completing custom reports as well as instructions on how *CMS* stores and retrieves data.

Avaya CMS Supervisor Version 11 Installation and Getting Started (585-210-706)

This document performs the following functions:

- Provides procedures for installing *CMS Supervisor* and *Terminal Emulator*.
- Provides basic concepts in using *CMS Supervisor* and *Terminal Emulator*.
- Explains how to perform *CMS* operations, print reports, and save reports as HTML through the *Supervisor* interface.
- Lists troubleshooting messages.

Avaya CMS Supervisor V11 Reports (585-210-708)

This document performs the following functions:

- Describes all standard real-time, historical, and integrated reports, and related database items and calculations as they are used in *Supervisor*.
- Provides procedures for accessing and running reports.
- Includes information about using reports, such as running, formatting, and printing reports, and saving a report as an HTML file.

Avaya CMS Supervisor V11 Report Designer User Guide (585-210-707)

This document performs the following functions:

- Describes how to create new reports and edit existing reports using the *Report Designer* and *Report Wizard* features of *CMS Supervisor*.

Avaya CMS Open Database Connectivity (585-780-701)

This document performs the following functions:

- Describes the open database connectivity feature offered by Avaya.
- Includes installation and usage procedures for the ODBC driver.
- Provides an overview of ODBC concepts.
- Lists the database items available in *CMS* that can be accessed using ODBC.

Avaya CMS Terminals, Printers, and Modems (585-215-874)

This document performs the following functions:

- Lists the terminals, printers, and modem approved for use with *CMS*.
- Provides procedures for connecting these hardware devices to a *CMS* system through several hardware platforms and configurations.
- Describes how to use the Port Administration tool.
- Provides troubleshooting procedures related to terminals, printers, and modems connected to a *CMS* system.
- Provides *Solaris* commands used in maintenance of terminals, printers, and modems.

Avaya CMS External Call History Interface (585-780-700)

This document performs the following functions:

- Provides an introduction to the *External Call History* feature.
- Provides procedures for the installation and use of the *External Call History* feature.

Avaya MultiVantage Call Center Software Release 11 Call Vectoring and Expert Agent Selection (EAS) Guide (555-230-714)

This document performs the following functions:

- Describes the call vectoring features and vector administration.
- Describes the Expert Agent Selection (EAS) feature and provides detailed information and examples about using EAS.

- Includes information about Call Prompting, Adjunct Routing, Best Service Routing, Information Forwarding, and Look-Ahead Interflow.
- Presents information about troubleshooting vectors and a tutorial about writing a basic vector.

Avaya MultiVantage Call Center Software Release 11 Guide to ACD Call Centers (555-230-716)

This document performs the following functions:

- Provides introductions and basic concepts regarding ACD contact centers.
- Describes, in detail, the capabilities and usage of the *Automatic Call Distribution* (ACD) feature of MultiVantage systems.

Documentation for optional products

Avaya Visual Vectors Version 11 Installation and Getting Started (585-210-710)

This document performs the following functions:

- Lists the hardware and software requirements for *Visual Vectors*.
- Provides instructions for the installation of the *Visual Vectors* software.
- Describes the simple graphical user interface that *Visual Vectors* provides to the *Call Vectoring* feature.

Avaya Visual Vectors Version 11 User Guide (585-210-709)

This document performs the following functions:

- Describes how to use Visual Vectors to create and administer vectors, and how to import and export vectors.
- Includes procedures for using the application to create, save, and use contact center vectors.

Avaya Business Advocate R11 User Guide (585-210-711)

This document performs the following functions:

- Provides contact center administrators, contact center managers, and contact center supervisors with a general understanding of how *Avaya Business Advocate* can be used for call and agent selection to help meet their business goals.
- Describes how *Avaya Business Advocate* provides customer wait times depending on the configuration of the contact center.

Avaya CMS Forecast (585-210-717)

This document performs the following functions:

- Describes how to administer your system to obtain reports on future call traffic and future agent/trunk requirements.
- Provides information about predicting call traffic or agent/trunk requirements.

Avaya CMS R3V11 High Availability Installation, Maintenance, and Connectivity Guide (585-215-514)

This document performs the following functions:

- Provides introductory information and concepts regarding the *CMS High Availability* option.
- Includes instructions required to upgrade and administer the *CMS High Availability* option.

Avaya CMS R3V11 High Availability User Guide (585-215-714)

This document performs the following functions:

- Describes use and maintenance of the *CMS High Availability* option.

Avaya CMS R3V11 LAN Backup User Guide (585-215-715)

This document performs the following functions:

- Provides information and procedures regarding the archiving of *CMS* data to a network location.

Updated documentation

Updated documents are placed on the Internet when available.

To find new issues of documentation on the Internet, go to <http://www.avayadocs.com>.

How to Order

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Issue 1, May 2002

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Glossary

abandoned call	A call on which a caller hangs up before an agent answers.
abandoned call search	An ACD capability that enables the system to verify that the caller is still on the line before passing the call to an agent.
acceptable service level	1) A target value for the acceptable amount of time before an agent answers a call. 2) A percentage of calls answered within a set amount of time (for example, 80% of calls answered within 20 seconds).
access permissions	Permissions assigned to a CMS user so that the user can access different CMS capabilities or administer specific elements such as splits/skills, trunks, or vectors. Access permissions can be read, write, or exceptions. See also read permission , write permission .
ACD	See Automatic Call Distribution (ACD)
ACD call	1) A call that queues to a split/skill and is answered by an agent in that split/skill. 2) A call that queues as a direct agent call and is answered by the agent for whom it was queued.
Action List	A menu in the upper right-hand corner of most CMS ASCII screens. The menu lists the actions available for that particular window.
active VDN calls	A Call Vectoring feature on MultiVantage systems that provides conditional branching to a different step in the same vector or to a different vector, based on the number of incoming trunk calls a VDN is processing in a vector or at an agent position. Also called <i>counted calls to VDN</i> .
ACW	See after call work (ACW)
Adjunct/Switch Applications Interface (ASAI)	A recommendation for interfacing adjuncts and communications systems that is based on the CCITT Q.932 specification for layer 3. ASAI supports activities such as event notification and call control.
after call work (ACW)	An agent state consisting of work related to the preceding ACD call. If an agent hangs up after an ACD call, the agent is in ACW. ACW is also accessible by a button on the agent's set and does not have to be related to an ACD call.
agent	A person or VRU port that answers calls to an ACD split/skill. The agent is represented to CMS by a login identification keyed into a voice terminal.

agent login ID

agent login ID	A 1- to 9-digit number keyed by an ACD agent from a voice terminal to activate the agent position. Agent logins are needed for all <i>CMS</i> -measured ACD agents.
agent occupancy	The percentage of time that you expect or target for each split/skill agent to spend on ACD calls and in ACD while logged in.
agent position (EAS)	The combination of the agent login ID and the skills the agent is assigned. Data is collected for the agent by skill so that the total work for the agent is the sum of all skills in which the agent worked.
agent position (non-EAS)	The combination of the agent login ID and the split the agent logged into. Agents logged into multiple splits are associated with multiple positions. Call data is collected separately for each agent/split combination.
agent role	A description of the kind of service an agent in multiple skills give for one of these skills. Agent role is a combination of call-handling preference and skill/reserve levels.
agent skill	An attribute that is associated with an ACD agent and that qualifies the agent to handle calls requiring the attribute. An agent can be assigned up to 20 skills; for example, the ability to speak a particular language or the expertise to handle a certain product. See also primary skill, secondary skill, and skill level
agent state	A feature of agent call handling that allows agents to change their availability to the switch; for example, ACW, AVAIL, AUX.
agent terminal	The voice terminal used by a contact center agent.
agent trace	A CMS capability that allows you to trace agent activities such as state changes which can then be shown in a report.
AI	See Auto-in (AI) .
ANI	See Automatic Number Identification (ANI) .
announcement	A recorded voice message that typically identifies the call's destination, asks the caller to stay on the line, and describes the product or service offered. With the Call Vectoring feature, announcements can be part of a vector's call processing.
ASA	See Average Speed of Answer (ASA) .
ASAI	See Adjunct/Switch Applications Interface (ASAI) .
auto-available split	An ACD capability that enables VRUs such as the <i>CONVERSANT</i> ® Voice Information System to be brought online again immediately after a power failure or system restart without time-consuming reprogramming.

Auto-in (AI)	An ACD work mode that makes the agent available to receive calls and allows the agent to receive a new ACD call immediately after disconnecting from the previous call.
Automatic Call Distribution (ACD)	1) A switch feature that channels high-volume incoming and outgoing call traffic to agent groups (splits or skills). 2) An agent state in which the extension is engaged on an ACD call.
Automatic Number Identification (ANI)	An industry term for notification of the calling party number (CPN). When the calling party is connected through a switch, the CPN can be either a billing number for the switch or the station identification (SID) number.
AUX	See auxiliary work (AUX) .
AUX reason codes	Codes that enable a contact center to track an agent's time more precisely when the agent is in the AUX state. Agents can specify why they are in the AUX state - for example, on break or in a meeting.
auxiliary work (AUX)	An agent state in which the agent is doing non-ACD work, is on break, or is in a meeting. Agent enter AUX work by pressing the AUX WORK button or dialing the access code from their voice terminal. Agents can also enter AUX work by going off-hook to make or answer an extension call while in AVAIL mode or with a call on hold.
AVAIL	See available (AVAIL) .
available (AVAIL)	An agent work mode in which the extension can accept an ACD call. The agent enters this state by selecting the AI (auto-in) or MI (manual-in) work mode.
average agent service time	The average time you are expecting or targeting each agent to spend on an ACD call including talk time and ACW time.
Avaya Business Advocate	A set of features designed to enhance call and agent selection in a contact center.
Average Speed of Answer (ASA)	The average time a caller waits in queue before connecting to an agent. The ASA for a split/skill includes the time spent in queue and the time ringing an agent. The ASA for a VDN includes the time spent in vector processing including the time spent in queue and the time ringing for the VDN that the call was answered in.
backup	The process of protecting data by writing the contents of the disk to an archive, such as tape, that can be removed from the computer environment and stored safely.
calculation	A formula for representing contact center entities in the Dictionary. Calculations generate the date for fields in a report.

call-based items

call-based items	The category of database items in <i>CMS</i> that are entered in the database after a call completes. If a call starts and ends in different intrahour intervals, the call-based data is recorded for the interval in which the call completed. Most database items are call-based.
call-handling performance	A parameter of agent administration in an EAS environment that specifies how calls are selected for the agent.
call-handling profile	A set of objectives describing how a split/skill handles calls. Call-handling profiles are part of the <i>Avaya CMS Forecast</i> product.
Call Prompting	A switch feature that routes incoming calls based on information supplied by the caller such as an account number. The caller hears an announcement and is prompted to select an option from those listed in the announcement.
Call Vectoring	A switch feature that provides a highly flexible method for processing ACD calls using VDNs and vectors as processing points between trunk groups and splits. Call Vectoring permits a treatment of calls that is independent of splits.
Call Work Code (CWC)	An ACD capability that allows the agent to enter a string of digits during or after the call and send them to <i>CMS</i> for management reporting.
calls carried	The number of inbound/outbound calls carried by a trunk.
change agent skills	A <i>CMS</i> capability that allows you to change a single agent's skill assignment or apply an agent template to up to 50 agents.
Call Management System (CMS)	A software product used to connect to a switch that monitors and records data for large volumes of telephone calls that are processed through the ACD feature of the switch.
CMSADM backup	A backup that saves all the file systems on the <i>CMS</i> server including the <i>Solaris</i> operating system, <i>CMS</i> programs, <i>CMS</i> data, and non- <i>CMS</i> data.
CONN	See connected (CONN) .
connected (CONN)	A trunk state in which a caller and an agent are connected on an ACD call.
connected call	A non-ACD call connected to an agent through a VDN and for which <i>CMS</i> receives an indication that the call rang or was answered.
CONVERSANT	A powerful voice-response system that may include automated call routing, announcement storage, message retrieval, and callback.
current	A <i>CMS</i> operation that displays data from the current interval.

current interval	The current intrahour period of time (15, 30, or 60 minutes) which is archived to the historical database when the period expires. The current interval is part of the real-time database.
current wait time	The time a call has waited for service in a call queue adjusted for queue priority.
custom report	A real-time or historical report that has been customized from standard reports or created by the user through the Custom Reports subsystem of <i>CMS</i> .
CWC	See Call Work Code (CWC) .
DABN	See dequeued and abandoned (DABN) .
DACD	See direct agent ACD (DACD) .
DACW	See direct agent ACW (DACW) .
daily data	Interval data that has been converted to a 1-day summary.
data collection	This <i>CMS</i> feature can be used to determine if call activity and the associated ACD data is recorded. In many maintenance operations, it is necessary to disable data collection. If data collection is turned off, <i>CMS</i> does not void data on current call activity.
database	The <i>CMS</i> databases are used to store ACD data according to a specific time period. This can be current and previous intrahour real-time data or intrahour, daily, weekly, and monthly historical data.
database item	A name for a specific type of data stored in one of the <i>CMS</i> databases. A database item can store ACD identifiers such as split numbers or names, login IDs, and VDNs or statistical data on ACD performance such as number of ACD calls, wait time for calls in queue, current states of individual agents, and so forth.
database tables	Each <i>CMS</i> database can consist of several database tables which are used to logically separate data based on different criteria. For example, historical reports can be used to display data on a daily, weekly, or monthly basis; each of these different time measurements are stored in separate database tables.
DDC	See direct department calling (DDC) .
dequeued and abandoned (DABN)	A trunk state in which the trunk quickly goes idle after the caller abandons the call.
designer reports	Customized reports that you create and run through <i>Avaya CMS Supervisor Report Designer</i> . See the <i>Avaya CMS Supervisor Report Designer User Guide</i> for more information.

Dictionary

Dictionary	A CMS capability used to assign easily-interpreted names to contact center entities such as login IDs, splits/skills, trunk groups, VDNs, and vectors.
DID	See direct inward dialing (DID) .
Digital Subscriber Line (DSL)	A public switched telephone network (PSTN) line that provides high bandwidth for short distances using copper cable. This type of line operates at the Basic Rate Interface (BRI) with two 64-kilobit per second circuit-switched channels and one 16-kilobit packet-switched channel. DSL can carry both data and voice signals at the same time.
direct agent ACD (DACD)	An agent state in which the agent is on a direct agent ACD call.
direct agent ACW (DACW)	An agent state in which the agent is in the after call work (ACW) state for a direct agent ACD call.
direct agent calling	An EAS capability that allows a caller to reach the same agent every time and allows the contact center to include the call as an ACD call in management tracking. This is ideal for claims processing in which a client needs to speak with the agent handling the claim. It also ensures a high level of customer service without reducing management control.
direct department calling (DDC)	A non-EAS option to select an agent when more than one agent is available. The call goes to the agent closest to the top of an ordered list.
direct inward dialing (DID)	The use of an incoming trunk used for dialing directly from the public network into a communications system without help from the attendant.
DSL	See Digital Subscriber Line (DSL) .
EAS	See Expert Agent Selection (EAS) .
entity	A generic term for an agent, split/skill, trunk, trunk group, VDN, or vector.
EWT	See expected wait time (EWT) .
exception	Activity in an ACD which falls outside the limits you have defined and usually indicates abnormal or unacceptable performance of the ACD, agents, splits/skills, VDNs, vectors, trunks, or trunk groups. The parameters used to determine the occurrence of an exception are defined in the Exceptions subsystem of CMS.
exception permissions	The rights that a user has in being notified or viewing the instances where calls, contact center entities, or subsystems operated above or below specified thresholds.

expected wait time (EWT)	An estimate of how long a caller will have to wait to be served by a contact center while in queue. EWT is based on current and past traffic, handling time, and staffing conditions. Time spent in vector processing before being queued and time spent ringing an agent with manual answering is not included in the EWT. This is switch-based calculation.
Expert Agent Selection (EAS)	An optional MultiVantage feature that routes incoming calls to an agent who is a member of the specific skill required to handle the problems of the caller.
extension call	A call originated by an agent or a non-ACD call received by an agent. Extension calls include calls an agent makes to set up a conference or transfer.
FBUSY	See forced busy (FBUSY) .
FDISC	See forced disconnect (FDISC) .
flex agents	Agents who have the role of roving, backup, or allocated. Top and reserve agents are not flex agents. See the <i>Avaya Business Advocate User Guide</i> for more information.
flexible routing	An ACD capability that allows you to choose how incoming calls should be routed to agents in a split. Calls can be routed to the first available agent or to the most-idle agent.
forced busy (FBUSY)	A trunk state in which the caller receives a forced busy signal.
forced disconnect (FDISC)	A trunk state in which the caller receives a forced disconnect.
Forced Multiple Call Handling (FMCH)	A feature available for MultiVantage system which, when activated for a split/skill, allows calls to be automatically delivered to an idle line appearance if the agent is in the AI (auto-in) or MI (manual-in) work mode and if an unrestricted line appearance is available on the voice terminal.
Forecast, Avaya CMS	An Avaya product used to generate reports displaying expected call traffic and agent/trunk group requirements for the contact center for a particular day or period in the future.
historical database	A CMS database consisting of intrahour records for up to 62 days, daily records for up to 5 years, and weekly/monthly records for up to 10 years for each CMS-measured agent, split/skill, trunk, trunk group, VDN, and vector.
historical reports	Reports of past ACD data for various agent, split/skill, trunk, trunk group, VDN, or vector activities. Historical reports summarize call data into daily, weekly, or monthly totals.
HOLD	A trunk state in which an agent has put a call on this trunk on hold.

IDLE

IDLE A trunk state in which this trunk is not in use and is waiting for a call.

II See [Information Indicator \(II\)](#).

Inbound Call Management (ICM) A set of switch and adjunct features using ASAI to enable the adjunct to provide automatic screen delivery and call routing.

Information Indicator (II) A 2-digit code that identifies the type of originating line for incoming ISDN PRI calls, such as hotel or pay phone.

INFORMIX A relational database management system used to store and retrieve *CMS* data.

INFORMIX SQL An interactive interface typically used to view the INFORMIX database.

Integrated Services Digital Network (ISDN) A digital standard for telephony that enables analog and digital signals on the same line.

interval ASA The average time a call waits in queue before connecting to an agent, calculated on reporting interval boundaries. Interval ASA is cleared to zero at the start of each reporting interval. See also [Average Speed of Answer \(ASA\)](#) and [rolling ASA](#).

interval-based items A category of database items that represent the amount of time during a collection interval spent on a particular activity. Interval-based items are updated throughout the collection interval and timing is restarted at the end of the interval.

intrahour interval A 15-, 30-, or 60-minute segment of time starting on the hour. An intrahour interval is the basic unit of *CMS* report time.

ISDN See [Integrated Services Digital Network \(ISDN\)](#).

LAN See [local area network \(LAN\)](#).

local area network (LAN) A private interactive communication network that allows computers and compatible devices to communicate over short distances, usually less than one mile, at high data transfer rates.

Logical Agent An EAS feature that associates an agent's login ID with a physical extension when the agent logs in. Properties such as the assigned skills, class of restriction, and coverage path are associated with the login ID rather than the physical extension. This allows agents to log in at any available set.

LOGOFF An agent trace work mode in which an agent is logged out and not available to take ACD calls.

LOGON An agent trace work mode in which an agent is logged in and available to take ACD calls.

logout reason codes	Codes that enable an agent to specify the reason for logging out such as the end of a shift or for training.
Look Ahead Interflow (LAI)	A switch feature that can be used to balance the call load among multiple contact centers. LAI works with Call Vectoring and ISDN PRI trunks to intelligently route calls between contact centers. This allows multiple contact centers to share workloads, expand hours of coverage, and allows calls to be transparently handled by contact centers in different time zones.
maintenance	A CMS subsystem that is used for routine maintenance of CMS, such as backing up data, checking on the status of the connection to the switch, and scanning the error log.
maintenance busy (MBUSY)	A trunk state in which the trunk is out of service for maintenance purposes.
Manual-In (MI)	An ACD work mode in which an agent is available to receive an ACD call and is automatically placed into the ACW state upon release from the call.
MBUSY	See maintenance busy (MBUSY) .
MCH	See Multiple Call Handling (MCH) .
measured	A term meaning that an ACD element such as agent, split/skill, trunk, trunk group, VDN, or vector that is identified to CMS for data collection. If the ACD element is not measured, no data is collected.
MI	See Manual-In (MI) .
MIA	See Most Idle Agent (MIA) .
monthly data	Daily data that has been converted to a monthly summary.
Most Idle Agent (MIA)	An ACD distribution method that maintains a queue of idle agents. An agent is put at the end of the list for a particular split when the agent completes an ACD call for that split. The agent continues to advance on the list as long as he or she remains staffed and in ACW, AVAIL, or on AUXIN/OUT extension calls from the AVAIL mode.
Multiple Call Handling (MCH)	A process in which an agent receives an ACD call while other calls are active on the agent's station. The agent must put the current call on hold and press Auto-In/Manual-In to receive another ACD call.
multiple split queuing	A Call Vectoring capability that directs a call to up to three splits at the same time, with the first agent who is free receiving the call.
multi-user mode	A CMS state in which any administered user can log into CMS and data continues to be collected if the data collection feature is enabled.

name (synonym) fields

name (synonym) fields	A field in which you can input a name (synonym) that you have entered in the Dictionary. For example, you can input names of agents, splits/skills, agent groups, trunk groups, VDNs, or vectors.
night service	A switch capability that enables calls that arrive after business hours or on weekends to be automatically re-routed to a split, an announcement, or an alternate destination set up for after-hours coverage.
nonprimary split/skill	The second and third splits/skills to which a call queued to multiple splits/skills queues in a VDN. Also called secondary and tertiary split/skill, respectively.
OTHER	An agent work mode in which the agent is on a direct agent call, on a call for another split or skill, or has put a call on hold and has not chosen another work mode.
Outbound Call Management (OCM)	A set of switch and adjunct features using ASAI that distributes outbound calls initiated by an adjunct to internal extensions (usually ACD agents).
phantom abandon call timer	A CMS capability that tracks information about abandoned calls. When the phantom abandon call timer is enabled, calls with a duration shorter than the administered value (0 to 10 seconds) are counted as phantom abandon calls. Setting the timer to 0 disables this capability.
percent within service level	The percentage of calls that you are expecting or targeting to be answered by an agent within a specific number of seconds.
previous interval	An intrahour interval that is part of the real-time database. At the end of each intrahour interval, the contents of the current intrahour interval are copied to the previous intrahour interval portion of the real-time database.
primary skill	A skill assigned to an agent as that agent's strongest skill. Primary skills are the areas in which the agent has the most expertise.
pseudo-ACD	An area created on CMS to place previously backed-up ACD data. A pseudo-ACD is not a live (real) ACD and does not communicate with any switch.
queue	A holding area for calls waiting to be answered in the order in which they were received. Calls in a queue may have different priority levels, in which case, calls with a higher priority are answered first.
QUEUED	A trunk state in which an ACD call has seized the trunk and is queued to a split/skill, waiting for an agent to answer.
read permission	A permission with which a CMS user can access and view data; for example, running reports or viewing the Dictionary subsystem.
real-time database	A CMS database consisting of the current intrahour data on each CMS-measured agent, split, trunk, trunk group, VDN, and vector.

real-time reports	A report that shows ACD call activity on agents, split/skills, trunks, trunk groups, VDNs, and vectors for the current or previous intrahour interval.
Redirect On No Answer	An ACD capability that assist the user if a call is not answered in a specified number of rings. The terminal extension, including ports with VRUs, is busied out and the call goes back into the queue at top priority.
refresh rate	The number of seconds that <i>CMS</i> should wait for each update of real-time report data.
reserve agent	An agent whose skills are set so that they do not have a top skill, but are used to handle calls when all other agents of that skill are unavailable. Reserve agents are used for high-priority skills where customers must not wait for long periods of time.
RINGING	1) An agent state consisting of the time a call rings at an agent's voice terminal after leaving the queue and before the agent answers the call. 2) A trunk state in which a call is ringing at the agent's voice terminal.
rolling ASA	A running, weighted, average calculation made without using interval boundaries. Rolling ASA is used for vector routing; it is calculated on the MultiVantage system and set to <i>CMS</i> .
scripting	A <i>CMS Supervisor</i> capability that allows you to automate operations such as changing an agent's skills, running a report, and exporting report data.
secondary skill	A skill assigned to an agent in a subject that is not that agent's strongest area of expertise. Secondary skills are used in MultiVantage systems with Expert Agent Selection (EAS).
SEIZED	A trunk state in which an incoming or outgoing call is using the trunk.
service level	A time, in seconds, within which all calls should be answered. Also called acceptable service level.
Service Observing – Remote	A feature that allows a user to dial into the switch and monitor a call.
Service Observing – VDNs	A feature available with MultiVantage systems that give a user the ability to monitor the treatment that a call receives as it is processed by a VDN.
shortcut	A series of tasks which, when run, are performed on the <i>CMS</i> server. Shortcuts are a fast, easy way to view windows every day for the same ACD entities.
single-user mode	A <i>CMS</i> mode in which only one administrator can log in to the <i>CMS</i> server. Data continues to be collected if the data collection feature is enabled.
skill	See agent skill .

skill level

skill level	A rating from 1 (highest) to 16 (lowest) that indicates an agent's level of expertise in handling calls for which that expertise is needed.
screen-labeled key (SLK)	The first eight function keys at the top of the keyboard that correspond to the screen labels at the bottom of the <i>CMS</i> ASCII terminal screen. The screen labels indicate each key's function.
split	A group of extensions that receive calls.
staffed agent	An agent who is currently logged in to the switch.
standard reports	The set of reports that are supplied with <i>CMS</i> or <i>CMS Supervisor</i> .
station	1) An unmeasured extension 2) An extension that is not currently staffed by an agent or that is a member of an unmeasured split/skill.
switch	A system providing voice or voice/data communication services for a group of terminals.
timetable	A <i>CMS</i> feature that allows you to schedule one or more activities to run unattended. Timetables can be set to run once or at multiple times.
trunk	A telephone circuit that carries calls between two switches, between a central office and a switch, or between a central office and a telephone.
trunk group	A group of trunks that are assigned the same dialing digits: either a phone number or a direct inward dialed (DID) prefix.
uniform call distribution (UCD)	A method of call distribution in which the most idle agent for a skill receives the call (if the agent is available).
universal call identifier (UCID)	A number that uniquely identifies a call in a network of nodes that support UCID.
UNKNOWN	1) An agent state in which <i>CMS</i> does not recognize the state of the agent. 2) A trunk state in which <i>CMS</i> does not recognize the state of the trunk.
UNSTAF	An agent state in which the agent is not logged in and, therefore, is not tracked by <i>CMS</i> .
VDN	See Vector Directory Number (VDN) .
VDN calls-counted	See active VDN calls .

VDN or Origin Announcement (VOA)	A short announcement that is assigned to a VDN through switch administration. The VOA identifies the origin or purpose of a call for the contact center agent who answers the call.
VDN skill preference	A prioritized list of agent skills administered for a VDN that are needed or preferred for the answering agent. VDN skill preferences require a call to be routed to an ACD agent with a particular attribute or set of attributes.
vector	A list of steps that process calls according to a user definition. The steps in a vector can send calls to splits, play announcements and music, disconnect calls, give calls a busy signal, or route calls to other destinations based on specific criteria.
vector command	A step in a vector that describes the action to be executed for a call.
Vector Directory Number (VDN)	An extension number that enables calls to connect to a vector for processing. A VDN can connect calls to a vector when the calls arrive over an assigned automatic-in trunk group or when the calls arrive over a DID trunk group and the final digits match the VDN. The VDN by itself may be dialed to access the vector from any extension connected to the switch.
vector step	A single task within a vector that performs an action regarding a call. A vector step consists of a command with the possibility of one or more conditions or parameters, if necessary.
vector step condition	A condition accompanying a vector command that defines the circumstances in which the command is applied to a call.
VOA	See VDN or Origin Announcement (VOA) .
voice terminal	A telephone set, usually with buttons.
weekly data	Daily data that has been converted to a weekly summary.
write permission	A permission with which a CMS user can add, modify, or delete data and execute processes.

write permission

Index

A

ACD

Administration Log	699
administrative interface	20
listing connection status	652
listing status	601
name, deleting	56
settings, listing all	593
settings, viewing	591
setup	589
translations, requesting	604
user permissions	437
user permissions, adding	439
user permissions, deleting	447
user permissions, listing all	443
user permissions, modifying	445
user permissions, viewing	441
viewing archiving status of all	608
viewing archiving status of one	606
viewing connection status	650
viewing status	598
ACD Groups	49, 263
Adding	266
Adding an ACD	269
Call Center Administration	263
deleting	277
deleting an ACD	273
Dictionary	49
view contents	52
List all	
Dictionary	51
listing all	
Call Center Admin	267
modifying	275
renaming	275
view contents	52
viewing contents	271
ACD status	597
ACDs	53
adding agents to an existing agent group	64
adding an ACD name	54
adding an agent group	58
adding an AUX reason code name	83
administering printers	657
agent	
copying agent groups	62
exceptions	341

exceptions, adding	343
exceptions, definitions	351
exceptions, deleting	349
exceptions, modifying	346
exceptions, report	354
skills, changing	241
templates, changing skills for	241
trace, starting and stopping	234
trace, viewing current states	237
agent group	
deleting	68
listing agents	60
agent group members	
running a report	198
agent groups	57
agent string value field descriptions	72
agent string values	69
agent trace	
stopping	234
agents	
adding to an existing group	64
administering	233
deleting from an existing group	66
multiple, adding to another skill	248
multiple, changing skills for	249
multiple, moving from skill to skill	248
trace, listing all records	239
allocating	
disk space	535
ANI/SID	
see automatic number identification/station number identification	
announcement name	
adding	76
deleting	80
listing all	78
modifying	79
viewing	77
announcement names	75
archiving data	
Data Summarizing	545
archiving status	605
automatic number identification/station number identification	415
AUX reason code names	81
adding	83
deleting	88
listing all	85
modifying	86
viewing	84

B

backup	
CMSADM	629
maintenance	632
recovery kit	639
backup information	
format of	638
how to interpret	638
backup volume	
labeling	638
backup/restore devices	
adding	616
deleting	620
listing all	614
modifying	618
viewing	612

C

calculations	91
adding	95
deleting	98
listing all	94
modifying	97
viewing	93
call center	
configuration	261
Call Center Administration	
ACD Groups	263
Call Vectoring	233
capabilities of	20
call work code 0	279
call work code names	
adding	101
deleting	106
listing all	103
modifying	104
viewing	102
call work codes	99, 279
adding	281
configuring	279
deleting	285
listing all	284
unassigned	279
viewing	283
CentreVu® Advocate	
capabilities of	28
CentreVu® CMS ACD	
master, selecting	527
CentreVu® CMS data	

migrating	564
migrating, R3	564
CentreVu® CMS state	
changing	525
chunks	24
ACD dbspace, modifying	561
CMSADM backup	629
colors threshold	36
colors, reports	33
Communications Tab	33, 39
connection status	649
constants	107
adding	108
deleting	112
listing all	110
modifying	111
viewing	109
copying an existing agent group to a new name	62
custom database items	113
adding	114
deleting	118
listing all	116
modifying	117
viewing	115

D

data	
historical, migrating	564
storage, allocating	535
data collection	
disabling	531
enabling	531
report	411
state, changing	531
data restore	667
Data Storage Allocation	535
Data Summarizing	545
data summarizing	579
settings, modifying	586
Database constants	107
database items	
custom	113
custom, adding	114
custom, deleting	118
custom, listing all	116
custom, modifying	117
custom, viewing	115
standard	161
dbspace	23
ACD, modifying	561
dbspaces	

contents, viewing	559	login ID name, listing all	133
Default ACD.	30	login ID name, modifying	134
deleting a custom calculation	98	login ID name, viewing	132
deleting agents in an existing agent group	66	login ID names	129
deleting an agent group	68	logout reason code name, adding	138
deleting an announcement name or synonym	80	logout reason code name, deleting	144
deleting an AUX reason code.	88	logout reason code name, listing all	140
description of the ACD Status window		logout reason code name, modifying	142
with EAS	602	logout reason code name, viewing	139
without EAS	603	logout reason code names	137
description of the Archiving Status — List All window	610	reports	195
description of the Backup Data window	635	reports, printing	196
Description of the Connection Status Window	654	searching.	45
devices		split/skill name, adding	155
backup/restore	611	split/skill name, deleting	160
Dictionary		split/skill name, listing all	157
ACD Groups	49	split/skill name, modifying	158
List all	51	split/skill name, viewing	156
view contents.	52	split/skill names.	153
ACD name, deleting	56	split/skill string value, field descriptions	150
agent group members report, running	198	split/skill string values	147
announcement name, adding	76	split/skill string values, modifying.	149
announcement name, viewing.	77	split/skill string values, viewing.	148
calculations, adding	95	standard CMS item, viewing	162
calculations, listing all.	94	standard database item, viewing	162
calculations, viewing	93	standard database items	161
call work code names, adding.	101	standard database items, viewing alphabetically	164
call work code names, deleting	106	trunk group name, adding	166
call work code names, listing all	103	trunk group name, deleting	171
call work code names, modifying	104	trunk group name, listing all	167
call work code names, viewing	102	trunk group name, modifying.	169
call work codes.	99	trunk group names	165
constant, deleting	112	trunk group names, listing all	168
constants	107	trunk string value, viewing and modifying	174
constants, adding	108	trunk string values	173
constants, listing all.	110	trunk string values, field descriptions	176
constants, modifying	111	VDN Name, adding	181
constants, viewing	109	VDN name, deleting.	185
custom database item, viewing	115	VDN name, listing all	183
custom database items	113	VDN name, modifying.	184
custom database items, adding	114	VDN name, viewing	182
custom database items, deleting	118	VDN names	179
custom database items, listing all	116	vector name, adding	189
custom database items, modifying.	117	vector name, deleting	193
location ID, adding	124	vector name, listing all.	191
location ID, deleting	128	vector name, modifying	192
location ID, listing all	126	vector name, viewing	190
location ID, modifying.	127	vector names	187
location ID, viewing.	125	Dictionary rules	43
location IDs	123	disk space	
login ID name, adding	131	allocating.	535
login ID name, deleting	135		

E

EAS (see Expert Agent Selection)	
capabilities of	27
EAS (See Expert Agent Selection), Expert Agent Selection	233
EAS (see Expert Agent Selection), Expert Agent Selection	20
error log messages	
maintenance	671
exceptions	
agent	341
agent, adding	343
agent, definitions	351
agent, deleting	349
agent, modifying	346
agent, report	354
data collection	411
definition	333
malicious call trace report	415
notification	339
notification, changing	340
Real-time exceptions log	419
split/skill	357
split/skill, adding	359
split/skill, definitions	366
split/skill, deleting	364
split/skill, modifying	361
split/skill, report	368
trunk group	371
trunk group, adding	372
trunk group, deleting	377
trunk group, modifying.	374
trunk group, report	380
VDN, adding	385
VDN, deleting.	390
VDN, modifying.	387
VDN, report.	394
vector	397
vector, adding	399
vector, deleting	404
vector, modifying	401
vector, report	407
Expert Agent Selection (EAS)	
agent trace	234
export	
report output	220
Export All Data window	220
Export Chart Data window	220
extensions	
split assignments, changing	252

splits, moving between.	255
External Application Status feature.	547
disabling	549
enabling	549
external applications	
starting or stopping	553
states, viewing	551

F

Feature Access	
user permissions, listing all.	453
user permissions, modifying	455
user permissions, viewing	451
First Day of Week.	30
Forecast	
capabilities of	28
Free Space Allocation.	555
contents, viewing	559
modifying	561
viewing	557

G

generic string values synonyms	119

H

Helpline	
how to reach	18
historical data	
archiving	545

I

Informix Dynamic Server (IDS).	555
Informix Software, Inc.INFORMIX®	
interface to historical database	20
input window	
scripting.	226
interval	
intrahour	579
intrahour, changing	582
intervals	
storage	579
storage, viewing	581
intrahour interval	579
changing	582

L

listing agents in an agent group	60

listing all announcements on an ACD	78
listing all AUX reason code names	85
location IDs	123
login ID name	
adding	131
deleting	135
listing	133
modifying	134
viewing	132
login ID names	129
logout reason code name	
adding	138
deleting	144
listing all	140
modifying	142
viewing	139
logout reason code names	137

M

Main Menu	
Addition Access, assigning/modifying	463
Addition Access, listing all	461
Addition Access, viewing	459
maintenance backup	632
Maintenance Error Log	
running	667
Maintenance Error Log messages	671
Maintenance tool	595
malicious call trace	
report	415
master ACD	
see ACD	
migrating CentreVu® CMS data	564
modifying a custom calculation	97
modifying an ACD name	55
modifying an announcement name	79
modifying an AUX reason code name	86
modifying generic string values	121
multi-user mode	
setting	525

N

Name Format Tab	39

O

Open Database Connectivity (ODBC), ODBC (Open Database Connectivity)	28
Options	
Default ACD	30
First Day of Week	30

general	30
report colors	33
threshold colors	36
time synchronization	30
Options...	
Communications Tab	33, 39
Name Format Tab	39

P

password	
aging	714
passwords	
choosing	711
permissions	
ACD	437
Main Menu Addition Access, assigning/modifying	463
Main Menu Addition Access, listing all	461
Main Menu Addition Access, viewing	459
split/skill, adding user	467
split/skill, deleting user	476
split/skill, listing all user	471
split/skill, modifying user	473
split/skill, viewing user	469
trunk group, adding user	481
trunk group, deleting user	490
trunk group, listing all user	485
trunk group, modifying user	487
trunk group, viewing user	483
user, adding ACD	439
user, deleting ACD	447
user, listing all ACD	443
user, listing all Feature Access	453
user, modifying ACD	445
user, modifying Feature Access	455
user, viewing ACD	441
user, viewing Feature Access	451
VDN, adding user	509
VDN, deleting user	518
VDN, listing all user	513
VDN, modifying user	515
VDN, viewing user	511
vector, adding user	495
vector, deleting user	504
vector, listing all user	499
vector, modifying user	501
vector, viewing user	497
phantom abandon call timer	589
print	
setup	208
print window	207

printer	
adding	658
deleting	664
listing all	660
modifying options	662
printing a report	207
pseudo-ACD	
data, loading	575
Pseudo-ACDs	569
pseudo-ACDs	
creating	572
deleting	574
viewing	573

R

recovery kit	639
report colors	33
Report Designer	202
reports	
ACD Administration Log	699
choosing	204
colors	36
configuring	202
custom	202
data collection	411
Dictionary	195
Dictionary, printing	196
exceptions, agent	354
exceptions, trunk group	380
generating	206
malicious call trace	415
members, trunk group	309
print setup, changing	208
printing	207
restarting	209
running	204
split members, running	258
split/skill, exceptions	368
standard	202
to summarize	203
types of	202
VDN, exceptions	394
vector, exceptions.	407
Reports input window.	207
reports saved as HTML	222
restarting a report	209
restore	
automatic.	643
manual	645
restoring data	667
running a report	204

S

Save As HTML window	222
Save as Script – Action window	228
script	
creating automatic	218
creating to run reports	213
exporting report output	220
to export report data as HTML	222
scripting	
non-report actions	225
scripting an action	228
scripting an input window	226
scripts	
organizing.	230
server	20
service level	
increment	295
increments	319
settings	
ACD, listing all.	593
ACD, viewing	591
setup	
ACD/switch	589
shortcuts	717
copying	755
copying tasks in	757
creating	749
deleting	763
description, modifying	754
overview	747
running	753
tasks, adding	751
tasks, deleting.	761
tasks, modifying	759
single-user mode	
setting	525
skills	
multi-agent, changing	249
multiple agents, changing	248
VDN, configuring preferences	287
Solaris	705
changing user passwords	712
local login	709
printer commands	715
remote login.	708
split	
extension assignments, changing.	252
extensions, moving	255
members report, running	258
split/skill	

call profile, deleting	301
call profile, modifying	299
call profile, viewing	297
call profiles	293
call profiles, adding	295
exceptions	357
exceptions, adding	359
exceptions, definition	366
exceptions, deleting	364
exceptions, modifying.	361
exceptions, report	368
string values	147
user permissions, adding	467
user permissions, deleting	476
user permissions, listing all	471
user permissions, modifying.	473
user permissions, viewing.	469
split/skill name	
adding	155
deleting	160
modifying	158
viewing	156
split/skill names	153
listing all	157
split/skill string value	
field descriptions	150
split/skill string values	
modifying	149
viewing	148
standard database item	
viewing	162
standard database items	161
viewing alphabetically	164
state	
changing, CMS.	525
storage intervals.	579
viewing	581
string values	
generic, modifying	121
generic, viewing	120
summarizing	
data, modifying.	586
Sun Microsystems, Inc.Solaris®	
interface to CentreVu® CMS	20
switch	
settings, listing all	593
settings, viewing	591
setup	589
switches	27
synchronize	
time zone	584

T

tape drives and cartridges	
ordering	624
tasks	
timetable, adding	719, 726
timetable, modifying.	734
threshold colors	36
time	
synchronization, master ACD	527
time synchronization	30
time zone	
offset, ACD	584
timetable	
tasks, adding	719
timetables	717
backups	720
changing	720
copying	729
creating	719, 722
deleting	745
global edits	736
listing all	728
overview	719
prerequisites	720
scheduling	722
tasks, adding	726
tasks, copying	731
tasks, deleting	743
tasks, global edits.	739
tasks, modifying	734
timezone	
adjustment, ACD	579
trace	
agent, listing all records	239
Training	771
trunk group	
assignment, viewing a single	305
assignment, viewing by VDN/split	307
assignments	303
exceptions	371
exceptions, adding	372
exceptions, deleting	377
exceptions, modifying	374
exceptions, report.	380
members report.	309
members report, running	310
user permissions, adding	481
user permissions, deleting.	490
user permissions, listing all	485
user permissions, modifying	487

user permissions, viewing	483
trunk group assignments	
viewing all	304
trunk group name	
adding	166
deleting	171
listing all	167
modifying.	169
trunk group names	165
listing all	168
trunk string values	173
field descriptions	176
modifying.	174
viewing.	174

U

users	
adding	424
deleting	434
Main Menu Addition Access, assigning/modifying	463
Main Menu Addition Access, listing all	461
Main Menu Addition Access, viewing	459
permissions, ACD.	437
permissions, adding ACD	439
permissions, adding split/skill	467
permissions, adding trunk group	481
permissions, adding VDN	509
permissions, adding vector	495
permissions, deleting ACD	447
permissions, deleting split/skill	476
permissions, deleting trunk group	490
permissions, deleting VDN	518
permissions, deleting vector	504
permissions, listing all ACD	443
permissions, listing all Feature Access	453
permissions, listing all split/skill	471
permissions, listing all trunk group	485
permissions, listing all VDN	513
permissions, listing all vector	499
permissions, modifying ACD.	445
permissions, modifying Feature Access	455
permissions, modifying split/skill	473
permissions, modifying trunk group	487
permissions, modifying VDN.	515
permissions, modifying vector	501
permissions, viewing ACD.	441
permissions, viewing Feature Access	451
permissions, viewing split/skill	469
permissions, viewing trunk group	483
permissions, viewing VDN.	511

permissions, viewing vector	497
settings, modifying.	431
settings, viewing.	428

V

VDN	
call profile, adding	321
call profile, deleting	327
call profile, modifying	325
call profile, viewing	323
call profiles	319
exceptions, adding.	385
exceptions, deleting	390
exceptions, modifying	387
exceptions, report	394
skill preferences	287
skill preferences, changing	289
skill preferences, configuring	287
skill preferences, listing all	292
skill preferences, viewing.	291
user permissions, adding.	509
user permissions, deleting	518
user permissions, listing all.	513
user permissions, modifying	515
user permissions, viewing	511
VDN name	
adding	181
deleting	185
listing all	183
modifying	184
viewing	182
VDN names	179
VDN-to-vector assignments	313
modifying	317
viewing all.	315
viewing by vector	316
vector	
configuration report	329
configuration report, running	331
exceptions	397
exceptions, adding.	399
exceptions, deleting	404
exceptions, modifying	401
exceptions, report	407
user permissions, adding.	495
user permissions, deleting	504
user permissions, listing all.	499
user permissions, modifying	501
user permissions, viewing	497
vector name	

adding	189
deleting	193
listing all	191
modifying	192
viewing	190
vector names	187
viewing an AUX reason code name	84
viewing generic string values	120

W

week	
beginning of	586
end of	586
work day	
start time	586
stop time	586

