

# OmniCONNECT™ Installation Guide for Digital OpenVMS (VAX and AXP)

OmniCONNECT Release 10.5.x

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# Preface

This guide provides instructions for OmniCONNECT™ release 10.5. This product was formerly known as OmniSQL Server™. The following topics are covered:

- Loading SYBASE® software from global tape or CD-ROM
- Installing OmniCONNECT release 10.5
- Upgrading to release 10.5 from release 10.1.2 OmniSQL Server
- Reconfiguring an existing OmniCONNECT

## Audience

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This guide is for System Administrators or other qualified installers familiar with their system's environment, networks, disk resources, and media devices.

## How to Use This Book

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Most of this guide contains step-by-step instructions for specific installation, upgrade, or reconfiguration tasks. Chapter 1 provides background information on SYBASE software which you should know before you begin the tasks in later chapters. Chapter 2 explains environmental requirements for your SYBASE installation.

Read Chapter 1 and perform the tasks in Chapter 2 before going on to later chapters. *Table 1: Overview of chapters* shows the tasks covered in each chapter.

The “Installation/Upgrade Worksheet” at the end of Chapter 1, provides an outline of tasks to be completed in Chapters 2 through 6 and serves as a record of information you may need later. Complete the appropriate items on the worksheet according to the instructions in these chapters.

Table 1: Overview of chapters

Chapter	Contents	Who Should Read
1	SYBASE installation and configuration utilities; SYBASE directory structure, interfaces file, devices, and localization support; new features for release 10.5	All

Table 1: Overview of chapters (continued)

Chapter	Contents	Who Should Read
2	Preparations for new installation or upgrade of OmniCONNECT; operating system reconfiguration	All
3	Loading SYBASE software from distribution media	New installations,
4	Installing a new OmniCONNECT	New installations
5	Upgrading to release 10.5	Upgrades
6	Reconfiguring an existing OmniCONNECT	Reconfigurations
App. A	Sample VMSINSTALL session	New installations
App. B	Sample interactive new installation session	New installations
App. C	Sample interactive upgrade session	Upgrades

## Related Documents

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1. Before your new installation, upgrade, or reconfiguration session, read:
  - *OmniCONNECT Release Bulletin*
2. Use the following documents for instructions during your session:
  - This guide
  - Operating system documentation
3. Read the following documents for information on getting started with OmniCONNECT:
  - *OmniCONNECT User's Guide*
  - *SQL Server System Administration Guide*
  - *SQL Server System Administration Guide Supplement*
4. Use the following documents as references:
  - *SYBASE SQL Server Reference Manual*
  - *SYBASE SQL Server Utility Programs for OpenVMS*
  - *Transact-SQL User's Guide*

## Style Conventions

---

The following style conventions are used in this manual:

- In a sample screen display, commands you should enter exactly as shown are given in:

**this font**

- In a sample screen display, words which you should replace with the appropriate value for your installation are shown in:

*this font*

- In the regular text of this document, the actual names of files and directories appear in italics:

*[REL100.SYBASE]*

- The names of programs, utilities, procedures, and commands appear in bold type:

**omnicfg**

## If You Need Help

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Each Sybase installation has a person designated to contact Sybase Technical Support. If you have questions which are not answered in this guide or related documents, contact that person.

## What's Next?

---

Chapter 1 discusses concepts about SYBASE software which you should understand before beginning tasks in later chapters, and introduces new features for Omni SQL Server release 10.5.



# 1

## Introduction

This chapter introduces some important concepts about SYBASE software, including localization features.

► *Note*

---

The *OmniCONNECT Release Bulletin* contains important information about this SYBASE software release. If you have not already done so, read the *Release Bulletin* now.

---

### Hardware and Software Requirements for OmniCONNECT

---

The following hardware and software configurations are compatible with release 10.5 of OmniCONNECT.

Operating System:	OpenVMS 5.4-1a through 6.0
Memory:	VAX: 30,000 pages, AXP: 30,000 Pagelets
OmniCONNECT:	125,000 disk blocks

### About Upgrading

---

If you are upgrading from OmniSQL Server release 10.1.2, you must first install a new OmniCONNECT 10.5 in a new directory. The server itself is not upgraded. A utility is provided to migrate objects from the old OmniSQL Server to the new OmniCONNECT. Once the new server is installed, you can complete the upgrade by following instructions in Chapter 5.

### “Installing” Compared to “Configuring”

---

Sometimes the utility `VMSINSTAL` is used both to copy files from the distribution media and to set up the SYBASE software. In this release, `VMSINSTAL` is used *only* for copying files from media. All other functions, including setting up a new OmniCONNECT use the utility `omnicfg`.

---

► *Note*

---

To create a new OmniCONNECT, first install the SYBASE files with **VMSINSTAL**, and then configure OmniCONNECT with **omnicfg**.

---

## About *VMSINSTAL*

---

SYBASE software is installed using the OpenVMS software installation utility, **VMSINSTAL**. **VMSINSTAL** prompts for information recorded on the worksheet, such as the Sybase products to install and the Customer Authorization String (CAS). Once you've supplied all the necessary information, **VMSINSTAL** proceeds automatically.

► *Note*

---

The "SYSTEM" user for your operating system executes **VMSINSTAL**.

---

## About *omnicfg*

---

SYBASE provides the utility **omnicfg** to configure OmniCONNECT. You can begin an **omnicfg** session after you have loaded the SYBASE software with **VMSINSTAL**.

### Using *omnicfg*

---

For new installations or reconfigurations of a single OmniCONNECT release 10.5, you will use **omnicfg** interactively, making selections for configuration from a menu. **omnicfg** rejects invalid selections, or provides warnings or error messages when you make improper selections. In most cases, if you make an error, you can change your selection and continue with the installation session. **omnicfg** provides command keys and screen prompts to help you make selections and move from one menu to another. Chapters 4–6 contain detailed instructions for using **omnicfg**.

*Table 1-1: omnicfg command keys* lists the command keys available in the omnicfg interactive mode.

**Table 1-1: omnicfg command keys**

Key	Command	Action
Ctrl-a	Accept	Accept the values currently listed in the menu and move to the next menu.
Ctrl-b	Backward	Scroll backward one page. Use this command key only when a menu or list does not fit on a single screen.
Ctrl-c	Quit	Quit <b>omnicfg</b> at any point and return to the prompt. Your terminal may use a key mapping other than Ctrl-c; use the key sequence that is mapped to the SIGINT signal.
Ctrl-f	Forward	Scroll forward one page. Use this command key only when a menu or list does not fit on a single screen.
Ctrl-r	Refresh	Refresh the screen.
Ctrl-x or Esc	Exit	Exit the current menu or prompt.
?	Help	Display an online help screen.

## The SYBASE Directory Structure

VMSINSTAL creates the SYBASE directory structure based on the definition you enter for the logical name SYBASE\_SYSTEM. The structure is illustrated in Figure 1-1. It is organized by function rather than by product.

Installing OmniCONNECT creates only the part of the directory structure required for OmniCONNECT software. When installing client software on a machine on which OmniCONNECT has already been installed, VMSINSTAL adds to the existing OmniCONNECT directories the components that have the same function. VMSINSTAL adds the command (.COM) and executable (.EXE) files it needs for installation in [SYBASE.INSTALL]. Other .COM and .EXE files are added to directories such as [SYBASE.BIN]. New directories (for example, [SYBASE.TERMDEF] for terminal definitions) are created for client-specific functions as required.

## OmniCONNECT Installation Structure

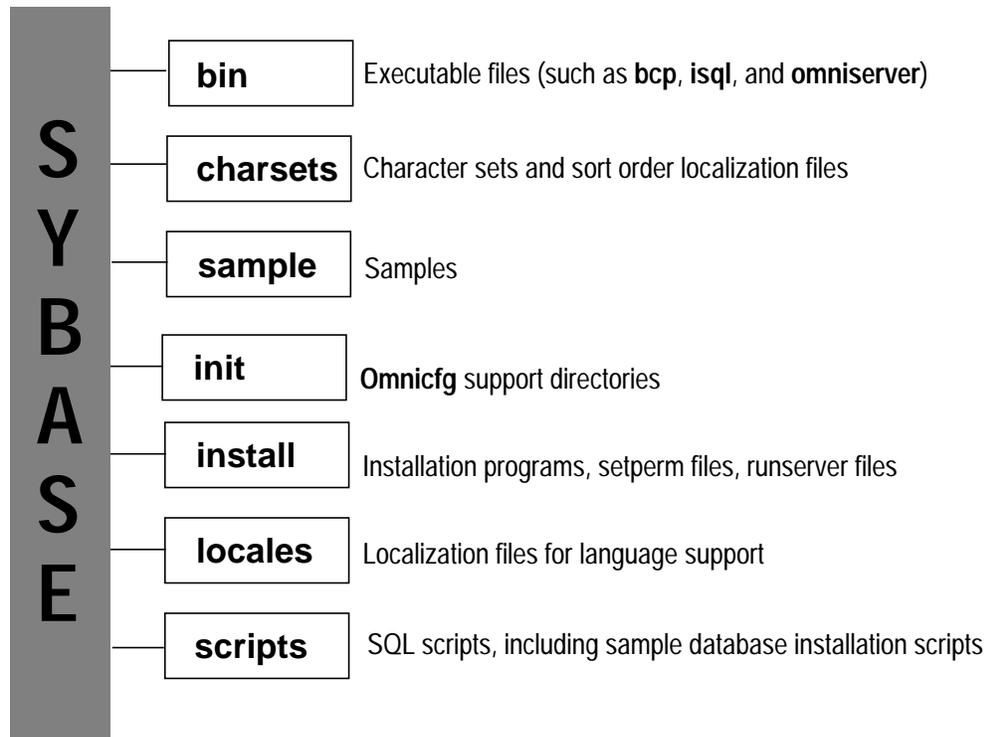


Figure 1-1: OmniCONNECT installation structure

The home directory contains executable files and administrative tools, which are added as each product is installed.

► **Note**

---

If you are upgrading OmniCONNECT, you need two *SYBASE* directories: the old directory, containing your current OmniSQL Server release 10.1.2, and a new one, to contain your upgraded OmniCONNECT release 10.5.

---

## Communication Among Servers

---

Your OmniCONNECT can communicate with other OmniCONNECT servers, SQL Servers, Open Server™ applications,

and client software on your network. Clients can talk to one or more servers, and servers can communicate with other servers.

◆ **WARNING!**

---

**Clients cannot connect with an OmniCONNECT server if it does not support the client's language or character set. See "Conversions Among Servers and Clients" on page 1-14 for more information.**

---

## The Interfaces File

---

For SYBASE products to interact with one another, each product needs to know where the others reside on the network. This information is stored in an interfaces file, usually named *interfaces*, located in the SYBASE installation directory. Once your OmniCONNECT or client software is installed, it can connect with any server on the network that is listed in the interfaces file.

The interfaces file is like an address book. It lists the name and address of every known server. When you are using a client program and you want to connect with a particular server, the client program looks up the server name in the interfaces file and connects to that server (see Figure 1-2).

The port number (for TCP networks), socket number (for SPX), or object (for DECnet) gives clients a way of identifying the server to which they want to connect. It also tells the server where to listen for incoming connection attempts from clients. OmniCONNECT uses a single number for these two different services (referred to as the "query service" and "listener service," respectively).

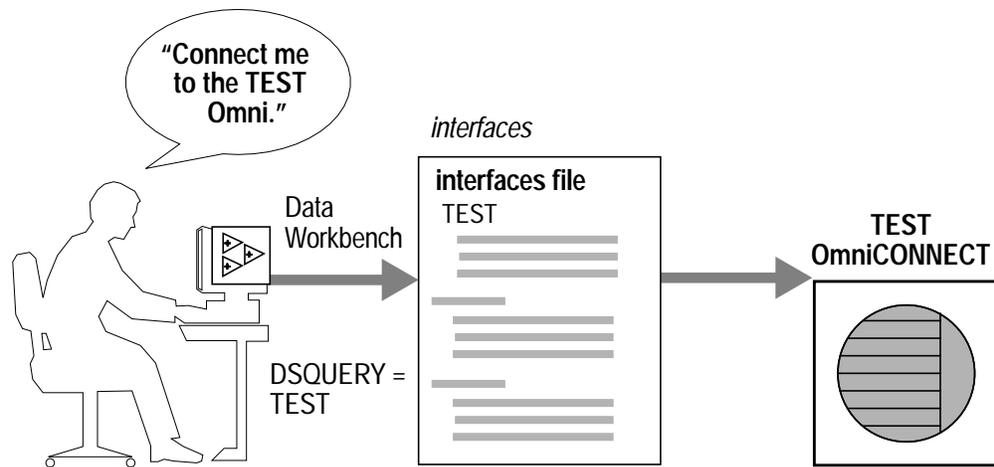


Figure 1-2: Communicating with a server

During the installation process, you can use `omnicfg` to create entries in the interfaces file for your new OmniCONNECT. For instructions on modifying existing interfaces file entries or creating new interfaces file entries for existing OmniCONNECTs, see the *System Administration Guide Supplement* for your platform.

## SYBASE Devices

OmniCONNECT requires the following devices:

- Master device, to store system databases
- *syssystemprocs* device, to store system procedures
- Auditing device, to store the auditing database and auditing system procedures

The following table, *Master device databases* provides information on the contents of the master device.

Table 1-2: Master device databases

Database Name	Size	Function
<i>master</i>	5MB min.	Contains information about users, databases and objects, and system catalog entries.
<i>model</i>	2MB	“Template” database with catalog entries.
<i>tempdb</i>	2MB min.	Work area for OmniCONNECT. Cleared and rebuilt each time the Server is started.
<i>pubs2</i>	2MB	Optional sample database in U.S. English.

## Requirements for Devices

During an `omnicfg` new installation session, you must specify the size and type of device (raw partition or operating system file) for the master and *sybsystemprocs* devices. You may configure the auditing device during a new installation session or in a reconfiguration session after your upgrade. Use the following table and the following sections as references when you prepare your devices.

Table 1-3: OmniCONNECT device requirements

Device	Default Size	Minimum Size	Recommended Size
Master	17MB	15MB	17MB
<i>sybsystemprocs</i>	10MB	10MB	10MB; more for added stored procedures
Auditing	None	5MB	7MB; more for specialized auditing

## Master Device Contiguity

`omnicfg` also provides an option for you to specify whether the master device is contiguous. Selecting “yes” for this option forces database creation for master to be on contiguous blocks of a disk. If `omnicfg` is unable to create a contiguous file, it fails with an error message. If you select “no” for this option, `omnicfg` (which calls the `buildmaster`

utility) still tries to create a contiguous file for the master device, but if it fails, it creates a file that does not force contiguity.

### Limitations on Master Device in VMS Clusters

---

In a VMS cluster environment containing a mix of VAX and AXP nodes, the type of node on which `omnicfg` (through `buildmaster`) creates a master device determines which OmniCONNECTs and associated Companion Servers can access that master device.

For instance, a Master Server and its associated Companion Servers hosted on VAX nodes can access only a master device that was created by running `omnicfg` (`buildmaster`) on a VAX node; a Master Server and Companion Servers hosted on AXP nodes can access only a master device that was created by running `omnicfg` (`buildmaster`) on an AXP node.

Refer to Chapter 3 of the *System Administration Guide Supplement* for more information on Companion Servers.

## Localization Support

---

OmniCONNECT offers localization support for international customers and other customers with heterogeneous environments. Localization is the process of setting up an application to run in a particular national language environment. A localized application:

- Generates messages in a local language and character set
- Uses local date and time formats

### Language Modules

---

French and German Language Modules are available with OmniCONNECT release 10.5. Language Module features are contained in localization files under the `[SYBASE.LOCALES]` and `[SYBASE.CHARSETS]` directories. When you install a language module, the language, character set, and sort order files to support the new language are automatically loaded into the `SYBASE` directory tree in the correct locations. *Figure 1-3: Localization files in the SYBASE directory tree* illustrates the structure of these localization files. Note that this figure does not show complete lists of the files in all of the subdirectories.

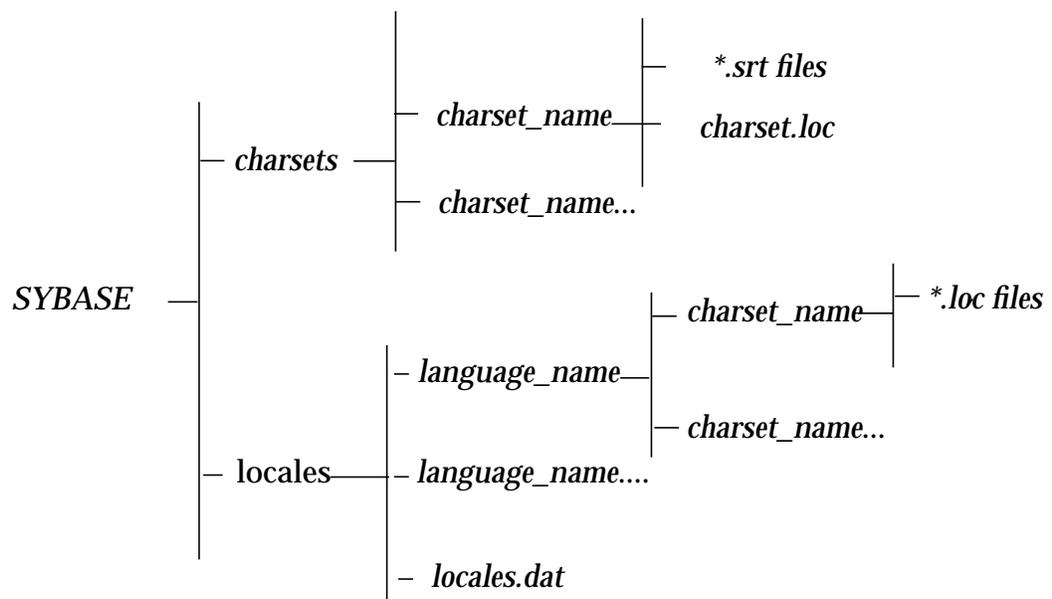


Figure 1-3: Localization files in the *SYBASE* directory tree

### *locales.dat* File

The *[SYBASE.LOCALES]* directory contains the *locales.dat* file, which is used to convert platform-specific international locale information to SYBASE proprietary format. This file contains entries that associate platform-specific locale names with SYBASE language and character set combinations.

#### Format of *locales.dat* File Entries

Each entry in the *locales.dat* file links a platform-specific locale definition to a SYBASE language and character set combination. Each entry has the following format:

```
locale = platform_locale, syb_language, syb_charset
```

When the locale being defined is the default for the site, the *platform\_locale* is “default”.

For example, the following entry defines the default locale as U.S. English with the *iso\_1* character set:

```
locale = default, us_english, iso_1
```

See your operating system documentation to determine valid *platform\_locale* values for your platform.

See the `[SYBASE.LOCALES.LANGUAGE_NAME]` directories to determine valid values for *syb\_language*.

See the `[SYBASE.LOCALES.LANGUAGE_NAME.CHARSET_NAME]` directories to determine valid values for *syb\_charset*.

### SYBASE-Defined Locale Entries

---

You receive your SYBASE software with some locale entries already defined in the *locales* file. If these entries don't meet your needs, you can either modify them or add new locales entries. The following lines taken from the *locales.dat* file show the locales entries for your platform:

```
; from "Digital Guide to Developing International
Software"
; use environment variable SYS$LANGUAGE
locale = default, us_english, iso_1
```

### Editing the *locales.dat* File

---

It is possible to edit the *locales.dat* file, changing or adding locale name entries as necessary. If you plan to run `omnicfg` in a language other than U.S. English or a character set other than `iso_1`, review the *locales.dat* file before you begin your `omnicfg` session to ensure that the entries in the file match the definitions used by your operating system.

You may want to edit the *locales.dat* file later, after you have installed a new Language Module or if you are reconfiguring language or character set options for OmniCONNECT.

Perform the following steps to edit the *locales.dat* file:

1. Make a copy of the original, unedited *locales.dat* file, in case you have problems with the edited version.
2. Review the file to see if it contains an entry for the language and character set combination you want to use, and to see if this entry's value for *platform\_locale* matches the definition required by your operating system.
3. If no entry exists for the language and character set combination you want to use, add an entry to the file. See "Format of *locales.dat* File Entries" on page 1-9 for information on determining the values for this entry.

If an entry does exist for the language and character set combination you want to use, but the value for *platform\_locale* in the entry does not match the definition required by your operating system, change the *platform\_locale* value in the entry so that it matches.

4. Save the edited file.

◆ **WARNING!**

---

**If locales definitions in your system configuration files do not match SYBASE locales definitions, your applications will not run properly.**

---

### *locales* Directory

---

In addition to the *locales.dat* file, the *[SYBASE.LOCALES]* directory contains a subdirectory for each available language. Each language subdirectory contains a subdirectory for each character set available with that language. The files in these subdirectories, *.loc* files, enable OmniCONNECT to report errors in a specific language encoded in a specific character set. There are a variety of *.loc* files in each subdirectory. Most of these files contain translated error messages for a specific product or utility. The *common.loc* file in each subdirectory contains localized information used by all products, such as local date, time, and money formatting.

### *charsets* Directory

---

Files in the *[SYBASE.CHARSETS]* subdirectory contain information related to particular character sets, such as the definition of the character set and any sort orders available for that character set.

### Available Character Sets

---

Platforms have native character sets. By default, *omnicfg* configures OmniCONNECT with the native character set for your platform. You can specify a different character set for OmniCONNECT during the installation.

In heterogeneous environments, OmniCONNECT may need to communicate with other servers or applications running on a platform with a different default character set. You can prevent data translation delays by installing the other platform's default character

set as the default for OmniCONNECT. Alternatively, you can install additional character sets for OmniCONNECT to allow OmniCONNECT to translate data from servers and clients using other character sets.

Your OmniCONNECT release 10.5 software includes character set definition files (*charset.loc* files) in the directory for each character set under *[SYBASE.CHARSETS]*. (See *Figure 1-1: SYBASE OmniCONNECT Installation Structure*.) These files permit you to configure your system for optimum server-client and server-server communication.

The character sets available to most customers include:

- iso\_1 (ISO-8859/1) – 8-bit character set for many systems. This is the default for OmniCONNECT with Sun, NCR System 3000, OpenVMS, and IBM AIX workstation installations.
- cp437 (Code Page 437) – Character set used in IBM PCs.
- cp850 (Code Page 850) – IBM/Microsoft Multilingual Character Set, used in IBM PCs.
- mac – Macintosh default character set for many systems.
- roman8 – Hewlett Packard character set.

## Available Sort Orders

---

OmniCONNECT release 10.5 permits you to select a sort order (collating sequence) for your data according to your facility's needs. Your SYBASE software includes sort order definition files (*.srt* files) under the *charsets* directory. (See *Figure 1-1: SYBASE OmniCONNECT Installation Structure*.)

### ◆ **WARNING!**

---

**If at all possible, make all changes to the character set and sort order of a new OmniCONNECT before creating any user databases or making any changes to the Sybase-supplied databases. Changing the character set and sort order after data or data structures have been added to OmniCONNECT can cause difficulties. To change the character set or sort order after you have added data, see the *System Administration Guide*.**

---

Available sort orders vary according to the character sets installed on OmniCONNECT. To determine available sort orders, review the "sort order=" field of the

[*SYBASE.CHARSETS.CHARSET\_NAME*]*CHARSET.LOC* file for each character set you plan to install. Sort orders include:

- **Binary sort order**, which sorts all data according to ASCII numeric byte value, is the default sort order. Binary order sorts all uppercase letters before lowercase letters.
- **General purpose dictionary order** is case-sensitive. It sorts uppercase letters before their lowercase counterparts. Dictionary order recognizes the various accented forms of a letter and sorts them after the associated unaccented letter.
- **Dictionary order, case-insensitive**, also sorts data in dictionary order but does not recognize case differences. Uppercase letters are equivalent to their lowercase counterparts and are intermingled in sorting results.
- **Dictionary order, case-insensitive order with preference**, does not recognize case difference in determining equivalency of items. A word written with uppercase letters is equivalent to the same word written with lowercase letters. The only time uppercase and lowercase letters are distinguished is when you use *order by* clauses. When *order by* clauses are used, OmniCONNECT sorts uppercase letters before lowercase.

Don't select "case-insensitive order with preference" unless your installation requires that uppercase letters be sorted before lowercase letters in otherwise equivalent strings for *order by* clauses. Using "case-insensitive with preference" could cause poor performance in large tables when the columns specified in an *order by* clause match the key of the table's clustered index.

- **Dictionary order, case- and accent-insensitive**, treats accented forms of a letter as equivalent to the associated unaccented letter. It intermingles accented and unaccented letters in sorting results.
- **Spanish dictionary order** sorts data according to Spanish lexical rules, and is case- and accent-sensitive.
- **Spanish case-insensitive dictionary order**, also sorts data according to Spanish lexical rules, but does not recognize case differences. It does recognize the various accented forms of a letter and sorts them after the associated unaccented letter.
- **Spanish case- and accent-insensitive dictionary order**, sorts data according to Spanish lexical rules. This sort order does not recognize case differences and treats accented forms of a letter as equivalent to the associated unaccented letter. It intermingles

uppercase and lowercase letters, and accented and unaccented letters in sorting results.

### Conversions Among Servers and Clients

---

When a localized client application connects to OmniCONNECT, the server checks to see if it supports the client's language and character set. If it does, then it automatically handles all character set conversion and issues server messages in the client's language and character set.

If OmniCONNECT does not support a client's language or character set, it issues a warning message to this effect.

Single-byte and multibyte character sets are incompatible. To avoid conversion problems, configure OmniCONNECT with the same type of character set.

See the *System Administration Guide* for detailed information on supported conversion paths.

### Configuring Language, Character Set, or Sort Order

---

By default, `omnicfg` configures OmniCONNECT with U.S. English language, `iso_1` character set, and binary sort order. You can specify different values during installation of the server (see Chapters 4 and 6 for instructions).

If you want to reconfigure these values for an existing OmniCONNECT, see Chapter 6 of this guide or the *System Administration Guide* for information.

If you are installing Language Modules only, you can reconfigure OmniCONNECT's values after you have copied the Language Module software from media, as explained in Chapter 3 of this guide.

### What's Next?

---

The Installation/Upgrade Worksheet that begins on the next page provides a place to record information as you reconfigure the operating system in Chapter 2 and perform the OmniCONNECT tasks in Chapters 3 through 6.

# OmniCONNECT Installation/Upgrade Worksheet

RELEASE 10.5

Fill out this worksheet and refer to this information as you read through Chapters 2–6. Keep the completed worksheet in a safe place for future reference. You may need the information on it if you call Technical Support, and it will save you time if you have to reconfigure your installation for any reason

---

## CHAPTER 2 Preparing for New Installation

---

### Information for *VMSINSTAL*

SYBASE\_SYSTEM definition for new OmniCONNECT installation:  
\_\_\_\_\_

SYBASE\_SYSTEM definition for existing OmniCONNECT installation (upgrades only): \_\_\_\_\_

Type of Installation (Circle one):    Primary    Secondary

CD\_ROM drive device name (CD-ROM installations only):  
\_\_\_\_\_

Tape drive device name (global tape installations only):  
\_\_\_\_\_

Customer Authorization String:  
\_\_\_\_\_

---

### "SYSTEM" Account

- Logged in as "SYSTEM"
- Minimum quotas set for "SYSTEM"

---

### Network Status

### Network Active

- DECnet
  - TCP/IP
  - SPX (VAX only)
-

---

**OmniCONNECT Interfaces  
File Information**

**DECnet:**

Network node name: \_\_\_\_\_

Network object number: \_\_\_\_\_

Alias (Optional): \_\_\_\_\_

**TCP:**

Host address: \_\_\_\_\_

Port number: \_\_\_\_\_

Alias (Optional): \_\_\_\_\_

**SPX: (VAX only)**

Ethernet address: \_\_\_\_\_

Network number: \_\_\_\_\_

Socket number: \_\_\_\_\_

Alias (Optional): \_\_\_\_\_

Retry count (Optional): \_\_\_\_\_

Retry delay (Optional): \_\_\_\_\_

---

**Nodes to Be Used by  
OmniCONNECTs and  
Clients**

Nodes: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

---

**Companion Server  
Information  
(VMScLuster Environments  
Only)**

DECnet proxy set up

---

**"SYBASE" User Account**

Login directory = *SYBASE*

Default privileges:

[*(ALTPRI), DETACH, GRPNAM, NETMBX, SYSLCK, SYSNAM, TMPMBX*]

Default Privileges for OmniCONNECT debug option:

[*SHARE, SYSPRIV*]

Identifier created for "SYBASE"

---

**OpenVMS Resources**

- System has at least 18,000 free blocks in pagefile(s)
- WSMAX* is at least 30,000 pages  
(current value): \_\_\_\_\_
- System has at least 30,000 free pages  
(value of *GBLPAGES*): \_\_\_\_\_
- System has at least 2 free global sections  
(Value of *GBLSECTIONS*): \_\_\_\_\_
- GBLPAGFIL* is at least 30,000 pages  
(current value): \_\_\_\_\_

---

**Master Device  
Information  
(New Configurations Only)**

Size for device in megabytes (default is 17MB):  
\_\_\_\_\_

Contiguous device (circle one):    Yes    No

Directory created and protections set  
Directory specification (including device):  
\_\_\_\_\_

---

***sybssystemprocs* Device  
Information**

Logical device name (default is *sysprocsdev*):  
\_\_\_\_\_

Size of *sybssystemprocs* database (default is 12MB):  
\_\_\_\_\_

Size for device in megabytes (default is 12MB):  
\_\_\_\_\_

Directory created and protections set  
Directory specification (including device):  
\_\_\_\_\_

---

**Auditing Device Information**

---

Logical device name (default is *sybsecurity*):

\_\_\_\_\_

Size of *sybsecurity* database (default is 5MB):

\_\_\_\_\_

Size for device in megabytes (at least 5MB):

\_\_\_\_\_

Directory created and protections set

Directory specification (including device):

---

**CHAPTER 3  
Loading Software  
from Media**

---

Values for *locale\_name* in *locales.dat* file entries match operating system definitions.

---

**CHAPTER 4  
Installing OmniCONNECT**

---

**OmniCONNECT Name**

---

Name of OmniCONNECT (11 characters maximum; default is SYBASE):

---

**OmniCONNECT Error Log Location**

---

File specification for OmniCONNECT error log:  
(default is *SYBASE\_SYSTEM:[SYBASE.INSTALL]errorlog*):

---

**Language Information**

---

OmniCONNECT default language:

\_\_\_\_\_

Additional OmniCONNECT languages: \_\_\_\_\_

---

**OmniCONNECT Character Set Information**

---

OmniCONNECT default character set:

\_\_\_\_\_

Additional character sets to install (circle all appropriate character sets):

cp850 cp437 roman8 mac

---

**OmniCONNECT Sort Order Information**

---

Sort order for OmniCONNECT: \_\_\_\_\_

---

---

**OmniCONNECT Quota File  
Location**

---

File specification for OmniCONNECT quota file:

\_\_\_\_\_

---

**CHAPTER 5  
Upgrading OmniCONNECT**

---

Users logged off:

Devices created for migrating databases using disk-init:

---

**CHAPTER 6  
Reconfiguring  
OmniCONNECT**

---

***Changes for OmniCONNECT***

OmniCONNECT default language: \_\_\_\_\_

Additional OmniCONNECT languages: \_\_\_\_\_

OmniCONNECT default character set: \_\_\_\_\_

Additional OmniCONNECT character sets: \_\_\_\_\_

OmniCONNECT sort order: \_\_\_\_\_

See "Preparing Auditing Device" under the "Chapter 2" heading for information on auditing options.



# 2

## Preparing for New Installation

This chapter provides detailed instructions for adjusting your environment before you install a new OmniCONNECT.

### Who Should Read This Chapter

---

Read this chapter if you are installing a new OmniCONNECT.

► *Note*

---

Complete the sections of the worksheet under the “Chapter 2” heading as you perform the tasks in this chapter.

---

### Recording Information for *VMSINSTAL*

---

The following sections provide instructions for recording information on the worksheet that you need to copy SYBASE software from media with *VMSINSTAL*.

#### Defining SYBASE\_SYSTEM

---

The logical name SYBASE\_SYSTEM defines the location of the SYBASE installation. *VMSINSTAL* prompts you for this definition during the installation process.

SYBASE\_SYSTEM may be defined either as a physical device (for example, DUA0:) or as a rooted and concealed logical name that points to a directory specification. In executive mode, SYBASE\_SYSTEM must also be defined by adding the EXECUTIVE qualifier to the define command. Additionally, if you’re running on a VMS cluster, SYBASE\_SYSTEM must point to a location that is visible cluster-wide.

For example, if *DUA0:[REL100]* is the desired location for the installation, define SYBASE\_SYSTEM to point to that location. The following example uses the logical name SYBASE\_100:

```
DEFINE/SYSTEM/EXECUTIVE/TRANSLATION=CONCEALED -  
SYBASE_100 DUA0:[REL100.]
```

1. Determine the SYBASE\_SYSTEM definition for your new OmniCONNECT installation.
2. Record the SYBASE\_SYSTEM definition for your new OmniCONNECT installation on the worksheet.
3. If you plan to upgrade your OmniCONNECT from an earlier release, SYBASE\_SYSTEM *must* be defined to a different location than your current installation. The upgrade process uses both the old and new software during upgrades. Record the SYBASE\_SYSTEM definition for your current installation on the worksheet.

◆ **WARNING!**

---

**In a VMS cluster environment, you cannot upgrade an OmniCONNECT located on a different cluster than the cluster where your new software is installed. Be sure to define SYBASE\_SYSTEM so that your new SYBASE software is installed on the same cluster as the OmniCONNECT you want to upgrade.**

---

## Determining Installation Type

---

VMSINSTAL asks you whether your OmniCONNECT is a primary or secondary installation. It is possible to have two SYBASE product lines coexisting on the same system. A primary installation is intended to be used as the production environment. A secondary installation, on the other hand, is intended to be used as a test environment, or a second primary system.

The main difference between the two types of installations is the way SYBASE logicals are defined. Logical names defined by the SYBASE command file *SYBASE\_SYSTEM:[SYBASE.INSTALL]SYLOGICALS.COM* are defined with the */SYSTEM* qualifier in a primary system. In a secondary installation, these logicals are defined at a process level. This allows the same SYBASE logical names to be used without overwriting the primary SYBASE logicals. It is up to each user of the secondary system to execute the secondary installation's *SYLOGICALS.COM* command file. It is also suggested that these users place the following command in their *LOGIN.COM* file:

```
@sybase_secondary_path:[sybase.install]sylogicals.com
```

where *sybase\_secondary\_path* is the logical name or device entered as the SYBASE\_SYSTEM file specification during installation of the secondary system.

If the *sybase\_secondary\_path* is a logical name, it should be defined in *SY\$MANAGER:SYLOGICALS.COM* as a system logical name.

1. Determine whether your OmniCONNECT is a primary or secondary installation.
2. Circle the correct installation type on the worksheet.

### **Upgrading an Existing OmniSQL Server 10.1.2**

---

If you have an existing OmniSQL Server release 10.1.2 installed and you have set the SYBASE\_SYSTEM logical as a system level logical, you must make the OmniCONNECT release 10.5 installation a secondary installation. In this case, the OmniCONNECT release 10.5 installation must use process logicals. This allows the same SYBASE logical names to be used without overwriting the primary SYBASE logicals. Each user of the secondary system must execute the secondary installation's *SYSLOGICALS.COM* command file.

### **Recording Other Information**

---

1. Record the name of the drive device on your worksheet.

You must include the name of the device from which you copy SYBASE software during your VMSINSTAL session. This device is the drive where you place your global tape or CD-ROM.

2. Record your Customer Authorization String (CAS) on the worksheet.

The CAS is a 34-character alphabetic string that identifies the products you have purchased, and can install and configure. It is printed on the distribution media label. VMSINSTAL prompts you for the CAS when you copy files from the distribution media.

### **Checking the "SYSTEM" Account**

---

Due to privileges required by VMSINSTAL, the OpenVMS System Manager must log in using the "SYSTEM" account to copy files from the distribution media.

To minimize the amount of time it takes to copy files from media, the “SYSTEM” account should have the following minimum quotas:

ASTLM	24
BIOLM	18
DIOLM	18
BYTLM	32,768
ENQLM	200
FILLM	100

When using `VMSINSTAL`, watch for any `VMSINSTAL` messages regarding quotas and adjust quota values as necessary. For more information on OpenVMS resources, see the *System Administration Guide Supplement*. For more information on `VMSINSTAL`, see the *OpenVMS System Manager’s Manual*.

1. Log in as “SYSTEM”.
2. Set the minimum quotas for “SYSTEM”.
3. Check off these items on your worksheet.

## Verifying Networking Software

---

Your network configuration must be correct for you to perform the tasks in this guide. SYBASE software uses the network even when a client program is connected to an OmniCONNECT on the same machine.

Verify the status of each network you plan to use, as explained on the following pages. OmniCONNECT supports the DECnet, TCP/IP, and SPX protocols.

If any of these tests fail, your network is not functioning properly. You cannot configure a server until your network protocol is functional.

### Verifying DECnet

---

1. Verify that DECnet is installed on your machine. From the OpenVMS prompt, type:

```
SHOW LOGICAL SYS$NODE
```

If this logical name is defined, DECnet has been installed.

2. To verify that DECnet is running and configured properly, enter the following command from the OpenVMS prompt:

```
SHOW NETWORK
```

If DECnet is running, OpenVMS displays some information about the status of the network. If the network is unavailable, OpenVMS responds with the message:

```
SHOW-I-NONET, network unavailable
```

3. If you are installing on an OmniCONNECT-only machine, verify that you can connect to another machine by typing the following from the OpenVMS prompt:

```
SET HOST another_node_name
```

Verify that you can log in properly, then log out.

4. If your machine is not part of a network, verify that you can make a loopback connection via DECnet. From the OpenVMS prompt, type:

```
SET HOST 0
```

If the network is properly configured, you receive a login prompt from the machine that you are currently using. Verify that you can log in properly, then log out.

5. Record the status of the DECnet protocol for your network on the worksheet.

## Verifying TCP

---

On a TCP network, use telnet to verify your network connections.

1. If you are installing on an OmniCONNECT-only machine, verify that you can connect to another machine. From the OpenVMS prompt, type:

```
TELNET another_node_name
```

Verify that you can log in properly, then log out.

2. If your machine is not on a network, verify that you can make a loopback connection by typing the following from the OpenVMS prompt:

```
TELNET 127.0.0.1
```

If the network is properly configured, you receive a login prompt from the machine that you are currently using. Verify that you can log in properly, then log out.

3. Record the status of the TCP protocol for your network on the worksheet.

### Verifying SPX (VAX Only)

---

OmniCONNECT supports the SPX protocol for PC clients using SYBASE client programs. (However, SYBASE does not allow you to configure OmniCONNECT with SPX as the only network protocol.)

1. To verify that SPX is running on your SQL Server machine, make sure you have SYSPRV privilege, then type this command from the OpenVMS prompt:

```
RUN NWVMS$COMMON:QXCP
```

If this prompt appears:

```
XCP>
```

SPX is running. Exit the QXCP program by typing Ctrl-Z.

2. To verify that your PC client can connect to the SQL Server machine, see the SYBASE documentation for your PC Net Library™ software.
3. Record the status of the SPX protocol for your network on the worksheet.

### Recording Interfaces File Information

---

Client programs and SQL Servers executing remote procedure calls to OmniCONNECT locate that server with:

- DECnet – a combination of node name and network object
- TCP – a combination of internet address and port number
- SPX – a combination of network number, ethernet address, and socket number

In addition, on networks that allow multiple protocols, you can use an alias (a “nickname”) to distinguish one listener service from another.

When you configure a new OmniCONNECT, you must provide this information in the form required by each network protocol you plan to use in order to create an interfaces file entry for the server.

Figure 2-1: Interfaces file formats for supported protocols provides examples of the required formats for each protocol.

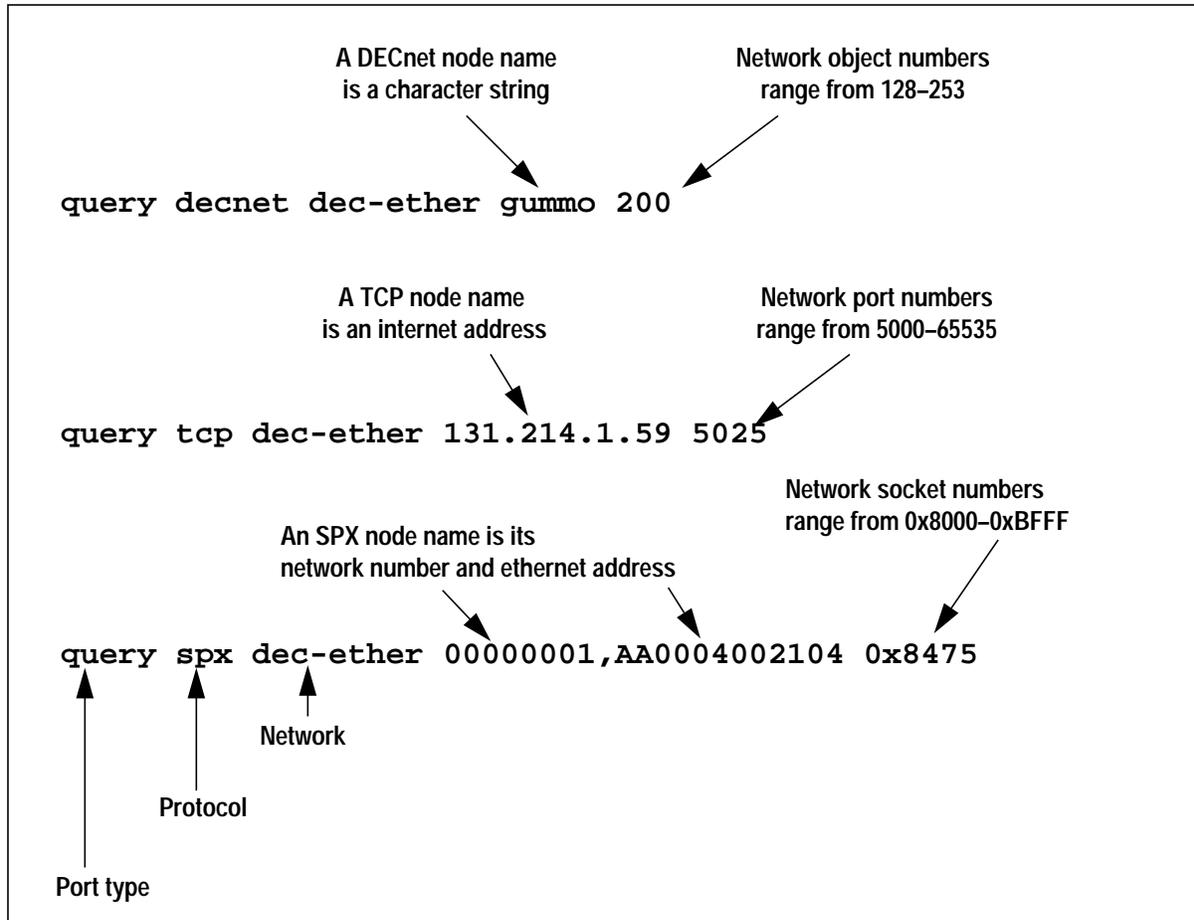


Figure 2-1: Interfaces file formats for supported protocols

See the *System Administration Guide Supplement* for more information on the interfaces file.

### Recording Network Address Information

If you plan to use DECnet, record the node names for OmniCONNECT on your worksheet.

You can use network utilities to find an internet or ethernet address of the machine on which you plan to configure a server. You may need CMKRNL and SYSPRV privileges. The following examples show how to find the internet or ethernet address of node "gummo"

when logged into MultiNet tcp, Wollongong's Pathway TCP, or SPX networks.

### MultiNet tcp

---

1. At the OpenVMS prompt, type:

```
MULTINET PING GUMMO
```

OpenVMS displays:

```
PING GUMMO.SYBASE.COM (131.214.1.59) : 56 data bytes
64 bytes from 131.214.1.59: icmp_seq=0 time=20ms
64 bytes from 131.214.1.59: icmp_seq=1 time=20ms
```

The internet address appears in parentheses.

2. Press Ctrl-y to stop the infinite loop.
3. Record the OmniCONNECT internet addresses on the worksheet.

### Pathway TCP

---

1. At the OpenVMS prompt, type:

```
SEARCH TWG$ETC:[000000]HOSTS. GUMMO
```

OpenVMS displays:

```
131.214.1.59      gummo    #ENG    PRV    NO    NO
```

The dotted internet address appears at the left.

2. If TWG\$ETC:[000000]. does not exist or does not reference the appropriate node, type:

```
SHOW SYMBOL PING
```

If *ping* is defined, this response appears:

```
PING == "$TWG$TCP:[NETDIST.ETC]PING PING"
```

3. If it is undefined, then type:

```
PING == "$TWG$TCP:[NETDIST.ETC]PING PING"
ping gummo
```

The dotted internet address appears.

```
64 bytes from 131.214.1.59: icmp_seq=0 time=20. ms
64 bytes from 131.214.1.59: icmp_seq=1 time=20. ms
```

4. Press Ctrl-y to stop the infinite loop.
5. Record the OmniCONNECT internet address on the worksheet.

### SPX (VAX only)

---

1. From the OpenVMS prompt, type:

```
RUN NWVMS$COMMON:QXCP
```

2. At the XCP prompt, type:

```
XCP> SHOW STATUS
```

This display appears:

```
QXDRIVER Status
QXCP version = 1.31
QXDRIVER version = 1.31
QXCP/QXDRIVER comms versions = 006 / 006
QXDRIVER template device = _0XA0:   QXDRIVER state is STARTED
ETHERNET (NI) device = ETAll:
Host address = AA-00-0481-04      <-- ethernet address

Protocol type = 81-37
Network number = 00000001        <-- network number

Maximum buffer size = 1500
Maximum well-known sockets = 10
Maximum ephemeral sockets = 20
Maximum SPX connections = 32
ETHERNET (NI) receive buffers = 10

Type "exit" to quit the QXCP program.
```

3. Record the ethernet address and network number on the worksheet. When you record the ethernet address, remove the dashes. For example, enter the ethernet address "AA-00-0481-04" as "AA00048104".

### Recording Network Object Number

---

*Figure 2-1: Interfaces file formats for supported protocols on page 2-7 illustrates the differences in network addresses for OmniCONNECT (object number, port number, or socket number) on the supported network protocols.*

When OmniCONNECT starts, it uses the number you provide to establish a network object.

Table 2-1 describes the two types of ports, or network objects, found in the interfaces file entries.

**Table 2-1: Port types and their uses**

Port Type	Use	Protocol
Query port	Used by client to request connections	DECnet, TCP
Master port	Used by OmniCONNECT to listen for connection requests from clients	DECnet, TCP, SPX

Remember that an object, port, or socket number must be unique to the network node on which you are running OmniCONNECT. If you use Companion Servers, the object number must be unique for all nodes running OmniCONNECTs in the VMScluster.

► **Note**

Object names are not recommended for DECnet. SYBASE supports network object names for compatibility with previous releases. If you use an object name when running OmniCONNECT on DECnet, Companion Server may have problems starting.

1. Verify that the network object numbers, port numbers, or socket number you plan to use for OmniCONNECT are unique.

You can verify in DECnet that a number is unique with the following commands:

```
MCR NCP
NCP> SHOW KNOWN OBJECTS
NCP> EXIT
```

A list of the network object numbers currently in use is presented under the column heading “Number”. Check to see that the number you have chosen does not appear.

This test displays only the current DECnet network objects. If a product using the same network number starts before OmniCONNECT, you will not be able to start OmniCONNECT.

To determine the uniqueness of a port number or socket number on TCP or SPX networks, see your network documentation.

2. Record the network object number, port number, or socket number for OmniCONNECT on your worksheet.

## Recording Other Interfaces File Information

---

1. You can use an alias (“nickname”) for any listener service in an entry in the interfaces file, as an easy way of distinguishing one listener service from another.

If you want to use an alias for a DECnet, TCP, or SPX listener service for OmniCONNECT, record the aliases on your worksheet.

2. `omnicfg` prompts you to enter a value for the “retry” and “delay” parameters. These numbers are added to the interfaces file, and determine how many times a client program or an OmniCONNECT executing a remote procedure call tries to connect with an OmniCONNECT, and how many seconds a client program waits between tries. The default for both “retry” and “delay” is zero. Note that remote procedure calls (RPCs) do not use the “delay” parameter.

If you want to use the “retry” and “delay” parameters for OmniCONNECT, enter values on your worksheet.

3. Make a list of all nodes on which any combination of OmniCONNECTs and Companion Servers (VMScluster environments only) will be run, and record this list on your worksheet.

## Setting Up a DECnet Proxy

---

► *Note*

---

This section applies only to VMScluster environments.

---

When you configure the Companion Server (CFT), the user account that you use to log in (which owns the configured objects) must be usable on each node on which an active server or Companion Server will run. In addition, you must set up a DECnet proxy for the “SYSTEM” and owner accounts on each node running a Companion Server.

Your proxy should map the owner account on each node on which an active or Companion Server resides to the account on the remote node. If you will be starting a Companion Server at system boot time, your proxy must also map the “SYSTEM” account on which the active or Companion Server resides to the “SYSTEM” account on the

remote node. If the proxy does not contain these mappings, you cannot start a server on a remote node from the local node.

For more information about the DECnet proxy, see the section on proxy login access control in the *OpenVMS Networking Manual*. Consult the *OpenVMS System Manager's Reference* for additional information on setting up the proxy.

After you have set up a DECnet proxy, check off "DECnet Proxy Set Up" on your worksheet.

## Creating a "SYBASE" User Account

---

VMSINSTAL sets protections on SYBASE files to the "SYBASE" user. In order to avoid permissions problems, the "SYBASE" user should perform all omnicfg tasks described in this guide. This user needs an account with the following privileges:

1. If an account with the following privileges is not currently available, create one now:

- Default resource quotas

- Default privileges:

  - DETACH

  - GRPNAM

  - NETMBX

  - SYSLCK

  - SYSNAM

  - TMPMBX

- Login directory of *[SYBASE]*

- Login device of SYBASE\_SYSTEM:

If OmniCONNECT must run at a higher priority than the default priority for the account, ALTPRI must also be given to the account.

It is highly recommended that the account also have SYSPRV and SHARE privileges, so that the DEBUG option is activated on a running OmniCONNECT if problems occur.

2. To create the account, use AUTHORIZE. The account privileges need to be set up as default and authorized privileges. For example:

```

SET DEFAULT SYS$SYSTEM
RUN AUTHORIZE
UAF> add SYBASE
_UAF> /uic=[101,101]/device=SYBASE_SYSTEM:/directory=[SYBASE] -
_UAF> /defprivilege=(SYSNAM,DETACH,GRPNAM,SYSLCK,ALTPRI,SYSPRV,SHARE) -
_UAF> /privilege=(SYSNAM,DETACH,GRPNAM,SYSLCK,ALTPRI,SYSPRV,SHARE) -
_UAF> /PGFLQUOTA=30000 /ADD_IDENTIFIER
%UAF-I-ADDMSG, user record successfully added
%UAF-I-RDBADDMSGU, identifier SYBASE value: [101,101] added to
RIGHTSLIST.DAT
UAF> EXIT

```

This example creates an account with the UIC [101,101] with a default device equivalent to the logical name SYBASE\_SYSTEM. You can use any UIC for this user account.

3. Use the following command to ensure that an identifier has been created for “SYBASE” and added to the rights list:

```
$ SHOW /IDENTIFIER
```

SYBASE should be one of the identifiers displayed. If it is not, contact the system administrator of your operating system for assistance.

After you have verified that the SYBASE identifier has been created, check off this item on the worksheet.

4. When you create this user account, set [SYBASE] as its default directory.
5. On the worksheet, check off “Login directory=SYBASE”. Also check off the user account privileges.

## Ensuring Availability of OpenVMS Resources

---

The availability of OpenVMS resources is critical to the OmniCONNECT installation. Be sure to check all items listed in the following text. You should also see the *System Administration Guide Supplement* for further information about configuring OpenVMS resources.

OmniCONNECT uses about 30,000 OpenVMS virtual memory pages (30,000 pagelets on AXP) in its default configuration. (See the *System Administration Guide Supplement* for information on how to increase this amount.) Sybase recommends that the working set for the OmniCONNECT process be at least 30,000 pages. Running OmniCONNECT in a smaller working set could result in substantially reduced performance.

Avoid giving OmniCONNECT a working set larger than the amount of free memory, as this may result in poor performance. Follow the guidelines in your OpenVMS documentation.

OpenVMS memory pages are 512 bytes each on VAX and 8192 bytes each on AXP.

### System File Paging Space

You must have at least 18,000 free blocks of page file space available or you cannot start OmniCONNECT. There may be more than one paging file on your system. OpenVMS uses space in any available paging file.

1. Check to see that your system has at least 18,000 free page file blocks. Refer to your OpenVMS documentation for instructions on how to change this value.
2. Check off “System has at least at least 18,000 free blocks in pagefile(s)” on the worksheet.

### SYSGEN Parameters

The following SYSGEN parameters must be set to specific minimum values in order to run OmniCONNECT:

- *WSMAX*
- *GBLPAGES*
- *GBLSECTIONS*
- *GBLPAGFIL*

Modify SYSGEN parameters with AUTOGEN.

1. To check the current value of a SYSGEN parameter, run the following commands:

```
$ SET DEFAULT SYS$SYSTEM
$ RUN SYSGEN
SYSGEN> USE CURRENT
SYSGEN> SHOW WSMAX      <--or any SYSGEN parameter
```

Parameter Name	Current	Default	Min.	Max.	Unit
WSMAX	4000	4000	2048	800000	Pages
internal value	250	250	128	50000	Pages

In this example, the current value for the SYSGEN parameter *WSMAX* is 4000 pages, the amount listed under the heading “Current.”

For information on modifying system parameters, see the *System Administration Guide Supplement*.

► **Note**

---

Reboot OpenVMS for SYSGEN parameter changes to take effect.

---

2. The SYSGEN parameter *WSMAX* determines the maximum working set for any process on OpenVMS. Increase the value of *WSMAX* to reflect the amount of memory used by OmniCONNECT. Failure to do so results in reduced performance. *WSMAX* must be at least 30,000 pages.
3. Record the value of *WSMAX* on the worksheet, and check off “*WSMAX* is at least 30,000 free pages.”

► **Note**

---

If you plan to reconfigure OmniCONNECT to use more memory, you must also change the value of *WSMAX* to be at least as large as the amount of memory required by OmniCONNECT. Refer to the section on AUTOGEN in the *System Administration Guide Supplement* for information on changing *WSMAX*.

---

4. Sybase recommends setting the *GBLPAGES*, *GBLSECTIONS*, and *GBLPAGFIL* parameters by using the *ADD\_FACILITY* in AUTOGEN. To do so, add these three lines to your *SYSSYSTEM:MODPARAMS.DAT* file:

```
ADD_GBLPAGES=30000
ADD_GBLSECTIONS=2
ADD_GBLPAGFIL=30000
```

These lines add an additional 30,000 global pages and 2 global sections to your OpenVMS system, and permit an additional 30,000 global pages to be paged to the system page file.

OmniCONNECT uses global memory to share data among engines. (Both multiprocessors and uniprocessors use global memory.) The default amount of global memory used is 30,000 pages. The *GBLPAGES* and *GBLPAGFIL* parameters must be adjusted so that at least 30,000 pages are always available to OmniCONNECT. If this memory is not available,

OmniCONNECT may not start. In addition, OmniCONNECT uses two global sections for the global memory.

If you reconfigure OmniCONNECT to use more memory, you must also change the values for *GBLPAGES* and *GBLPAGFIL*. Refer to the *System Administration Guide Supplement* for further information on configuring these resources.

5. Record the values of *GBLPAGES*, *GBLSECTIONS*, and *GBLPAGFIL* on the worksheet, and check off these items.

## Preparing Devices

---

During an *omnicfg* session for a new configuration, you must provide the information listed on your worksheet for the master and *sybssystemprocs* devices. You can provide information for the auditing device during a new configuration session or in a reconfiguration session.

► **Note**

---

Do not put the *sybssystemprocs* or auditing databases on the master device.

---

## Recording Device Information

---

Refer to “SYBASE Devices” on page 1-6 for information to help you determine what size to use for these devices and whether or not you want to specify “contiguous” for the master device.

1. Record logical device names for the *sybssystemprocs* and auditing devices on your worksheet. The logical device name is the internal name used within SYBASE to refer to the device. The default for *sybssystemprocs* is *sysprocsdev*; the default for auditing is *sybsecurity*.
2. Record the sizes for each device, and for the *sybssystemprocs* and *sybsecurity* databases, on the worksheet.
3. Determine whether or not you want to specify “contiguous” for the master device and circle the selected option on your worksheet.
4. Repeat the instructions in the following section as many times as necessary to complete the remaining items in the “Master Device” (new installations only), “*sybssystemprocs* Device” and “Auditing Device” sections of the worksheet.

**► Note**

---

Place the SYBASE software and all disk devices on the same machine. Placing the software and devices in remote locations affects performance adversely.

---

### Selecting RMS Files for Devices

---

When you use an RMS file:

- The directory must exist prior to running the configuration program.
- There must be at least 17MB (34,816 blocks) for master, 12MB (24,576 blocks) for *sybssystemprocs*, and 5MB (10,240 blocks) for auditing free on the device.
- The device directory protections must be set to SYSTEM=RWED, OWNER=RWED.

Perform the following steps to select a physical device and a directory on that device for the OmniCONNECT device.

1. To find free space prior to configuration, type the following command from the OpenVMS prompt:

```
SHOW DEVICE device_name
```

where *device\_name* is the device on which you want to find space. Select a device with enough space for the OmniCONNECT device.

2. If the directory does not exist, create it with a command like the following:

```
CREATE/DIRECTORY/PROTECTION=(S:RWED,O:RWED)/OWNER=[SYBASE]-  
DUB0:[REL100.MASTER]
```

If the directory exists, make sure it has the correct protections.

3. Check off “Directory created” on the worksheet. Record the directory specification for the device.

### What's Next?

---

Chapter 3 provides instructions for copying SYBASE software from the distribution media to your machine.



# 3

## Loading Software from Media

This chapter provides instructions for loading SYBASE software from distribution media onto your system with the `VMSINSTAL` utility.

### Who Should Read This Chapter

---

Read this chapter if you are installing a new OmniCONNECT.

### Overview of the Procedure

---

The software loading procedure can be summarized as follows:

1. Log in with the user name "SYSTEM".
2. Place the global tape or CD-ROM containing the SYBASE software in the appropriate drive.
3. (CD-ROM only) Mount the CD-ROM on your system.
4. Run the `VMSINSTAL` utility to load your OmniCONNECT software into the installation directory.

► *Note*

---

Loading the software may take 15 minutes or more.

---

### Prerequisites

---

1. Complete the preparation tasks in Chapter 2 before you begin the tasks in this chapter.
2. Review the sample `VMSINSTAL` session in Appendix A before you begin to load your software. If you are unsure of a selection at any time during your session, you can check this sample for information.
3. As you execute the loading process, refer to:
  - The *Release Bulletin*
  - Operating system documentation for your platform
  - The information recorded on the worksheet

## About the Distribution Media

---

The SYBASE products you have purchased are shipped to you on global tape or CD-ROM. The Customer Authorization String that you recorded in the last chapter allows you to access the software you have purchased as you run the `VMSINSTAL` utility.

## About `VMSINSTAL`

---

The `VMSINSTAL` utility loads your products from distribution media into the installation directory. Answer the prompts with the information you prepared in the last chapter.

If a prompt has a default answer, it appears in brackets after the question. To enter the default answer, press Return.

## Loading the Software

---

To load OmniCONNECT software onto your system, perform the following steps:

1. Place the distribution media in the tape drive or CD-ROM device.
2. Log in as "SYSTEM".
3. (CD-ROM only) Mount the CD-ROM with the following command:

```
mount device_name sybase cdrom
```

where *device\_name* is the name of the CD-ROM device you recorded on your worksheet.

4. Start `VMSINSTAL` with one of the following commands:

Global Tape	<code>@sys\$update:vmsinstal sybase020 <i>device_name</i></code> ( <i>device_name</i> is the tape drive you noted in Chapter 2.)
CD-ROM	<code>@sys\$update:vmsinstal sybase020 cdrom:[sybase]</code>

5. Refer to the information you recorded on the worksheet to answer the following `VMSINSTAL` prompts:
  - **SYBASE\_SYSTEM.** Enter the definition of the `SYBASE_SYSTEM` logical.

◆ **WARNING!**

---

If you are upgrading OmniCONNECT, be sure to enter the new definition of the `SYBASE_SYSTEM` logical at the `VMSINSTAL` prompt, and not the `SYBASE_SYSTEM` definition for the existing installation.

---

- **Secondary installation.** Answer yes (Y) or no (N) when asked if this is a secondary installation, according to the option circled on your worksheet. (See “Determining Installation Type” on page 2-2 for information.)
  - **Customer Authorization String.** Enter the string from the software packaging that allows you to access your products, as recorded on your worksheet.
  - **SYBASE products.** The `VMSINSTAL` utility displays a menu listing the available products. Enter the number that corresponds to each product you want to install, pressing Return after each number. When you have entered the number of the last product to install, press Return twice to enter a blank line.
  - **Product confirmation.** The `VMSINSTAL` utility lists the products you have chosen, and prompts for confirmation. Answer:
    - “y” if the list is correct
    - “q” to quit
    - Any other character to see the menu and choose again
6. Wait while `VMSINSTAL` installs your products. `VMSINSTAL` displays a series of screen messages while it installs your software. Installation may take 15 minutes or more. Do not interrupt the installation. When `VMSINSTAL` is finished, it repeats the list of products you selected for installation.
  7. (CD-ROM only) When the products have finished loading, dismount the CD-ROM with the following command:  

```
dismount cdrom
```
  8. Remove the distribution media from the drive.

## Reviewing the *locales* File

---

If you plan to run `omnicfg` in languages other than U.S. English or character sets other than `iso_1`, you may need to edit the `locales.dat` file so that the entries for the languages and character sets contain definitions that match the definitions used by your operating system.

1. Follow the instructions in “Editing the `locales.dat` File” on page 1-10 to review and edit the file.
2. Check off the locales file entry on your worksheet.

◆ **WARNING!**

---

**If locales definitions in your system configuration files do not match SYBASE locales definitions, your applications will not run properly.**

---

## What's Next?

---

If you are installing a new OmniCONNECT, proceed to Chapter 4, which provides instructions for a new installation.

# 4

## Installing OmniCONNECT

This chapter provides instructions for using `omnicfg` interactively to install a new OmniCONNECT.

### Who Should Read This Chapter

---

Read this chapter if you are installing a new OmniCONNECT release 10.5.

### Notes About New Installation

---

1. Read the instructions in this chapter before you begin your new installation.
2. Review the sample `omnicfg` session in Appendix C before you begin your new installation. If you are unsure of a selection at any time during your session, you can check this sample for information.
3. Perform the preparation tasks in Chapter 2, including setting ownership and permissions for the files or partitions you plan to use for the master, *sybssystemprocs* and auditing devices.
4. Load the SYBASE files from media, as explained in Chapter 3.
5. Follow the instructions in this chapter to install OmniCONNECT, recording information on the worksheet under the “Chapter 4” heading. Refer to information that you recorded previously under the “Chapter 2” heading.

### Verifying SYBASE\_SYSTEM Definition

---

Before you begin a `omnicfg` session, verify that the SYBASE\_SYSTEM logical was defined correctly when the SYBASE software was installed from media.

1. Log in using the account you created in Chapter 2. At the prompt, type:

```
show logical sybase_system
```

The value returned should match the logical name recorded on your worksheet.

- If the values do not match, type the appropriate command at the prompt:

For a primary installation:

```
define /sys/exec sybase_system rooted_logical
```

For a secondary installation:

```
define sybase_system rooted_logical
```

where *rooted\_logical* is the new SYBASE\_SYSTEM definition recorded on your worksheet.

## Starting omnicfg

- Make sure the omnicfg symbol is defined:
 

```
show symbol omnicfg
```
- If the symbol is not defined, execute the following:
 

```
@sybase_system:[sybase.install]sybase_manager
```
- Start omnicfg by typing the following command at the DCL prompt:
 

```
omnicfg
```
- Enter the item number that corresponds to Configure a Server Product at the Omnicfg menu. omnicfg displays the Configure Server Products menu:

```
CONFIGURE SERVER PRODUCTS
```

```
Products:
```

Product	Date Installed	Date Configured
1. OmniCONNECT	Jun 15 95 14:31	

The “Date Installed” column indicates when the product files were copied onto disk. The “Date Configured” column indicates when you configured the product with omnicfg. omnicfg records the current date and time in the “Date Configured” column when you complete the OmniCONNECT installation.

- Select OmniCONNECT. omnicfg displays the following menu:

```
NEW OR EXISTING OmniCONNECT
```

- Configure a new OmniCONNECT
- Configure an existing OmniCONNECT

6. Select Configure a New OmniCONNECT. `omnicfg` displays the Add New OmniCONNECT menu:

ADD NEW OmniCONNECT

1. OmniCONNECT name: SYBASE

7. To accept the default OmniCONNECT name, SYBASE, press Ctrl-a.

To change the default server name, select OmniCONNECT Name. At the prompt, enter the new OmniCONNECT name. Record it on your worksheet.

Enter the name of the new OmniCONNECT (default is 'SYBASE'):

`omnicfg` returns to the Add New OmniCONNECT menu and displays the new name.

◆ **WARNING!**

---

Select a server name that is unique to your network to avoid name conflicts with other applications. Use only 7-bit ASCII characters for your OmniCONNECT name.

---

## OmniCONNECT Configuration Menu

---

Type Ctrl-a when OmniCONNECT Name shows the correct name. `omnicfg` displays the OmniCONNECT Configuration menu:

OmniCONNECT CONFIGURATION

- |   |            |
|---|------------|
| 1. CONFIGURE SERVER'S INTERFACES FILE ENTRY | Incomplete |
| 2. MASTER DEVICE CONFIGURATION              | Incomplete |
| 3. SYBSYSTEMPROCS DATABASE CONFIGURATION    | Incomplete |
| 4. SET ERRORLOG LOCATION                    | Incomplete |
| 5. CONFIGURE LANGUAGES                      | Incomplete |
| 6. CONFIGURE CHARACTER SETS                 | Incomplete |
| 7. CONFIGURE SORT ORDER                     | Incomplete |
| 8. ACTIVATE AUDITING                        | Incomplete |

The remaining sections of this chapter help you complete the configuration tasks listed in the OmniCONNECT Configuration menu. If you lose your place during any part of the installation process, press Ctrl-x to cancel the current operation and return to this menu. Then continue the installation by selecting the first item marked "Incomplete."

## Creating OmniCONNECT Interfaces File Entry

---

► **Note**

---

See the *System Administration Guide Supplement* for information about the format of interfaces file entries.

---

Select Configure Server's Interfaces File Entry from the OmniCONNECT Configuration menu. `omnicfg` displays the Server Interfaces File Entry Screen:

```
SERVER INTERFACES FILE ENTRY SCREEN
```

```
Server name: SYBASE
```

1. Retry Count: 0
2. Retry Delay: 0
3. Add a new listener service

### Entering Connection Information

---

1. **Select Retry Count.** The retry count specifies the number of times a client attempts to connect to the server after an initial failure.
2. At the prompt, enter a retry count value. Record it on your worksheet.
3. **Select Retry Delay.** The retry delay specifies how many seconds a client waits between retries to connect to the server.
4. At the prompt, enter the retry delay value. Record it on your worksheet.

The Server Interfaces File Entry Screen now displays the retry count and retry delay values that you entered (or 0 if you did not enter any values). You can change either of the displayed values by reselecting the appropriate menu item and entering a new value at the prompt.

### Selecting Network Protocol

---

Select Add a New Listener Service. `omnicfg` displays the Select Network Protocol menu:

```
SELECT NETWORK PROTOCOL
```

1. TCP
2. DECnet
3. SPX

Follow the instructions in whichever of the following sections apply to the network protocol(s) you select.

### Adding a TCP Entry

---

To choose TCP, perform the following steps:

1. Select TCP from the Select Network Protocol menu. `omnicfg` displays the Edit TCP Service menu:

```
EDIT TCP SERVICE
```

1. Hostname/Address:
2. Port:
3. Name Alias:
4. Server Type: master
5. Delete this service from the interfaces entry

2. If Hostname/Address is correct, skip to the next item. To change the default OmniCONNECT host name, select Hostname/Address and enter the IP address of the machine on which OmniCONNECT is installed.
3. Select Port and enter the 4- or 5-digit port number, as recorded on your worksheet. The range of valid port numbers is 5000–65535.
4. (Optional) Select Name Alias and enter the alias recorded on your worksheet.
5. “Server type” refers to whether the entry is for a Master or Companion Server. The default is “master”.

If you are creating an entry for a Companion Server, select “Server type”. At the prompt that asks if the OmniCONNECT is a Companion Server, type “y”.

► **Note**

---

If you use Companion Servers, you must specify listeners for them.

---

6. Skip to “Accepting the New Entry” on page 4-7.

### Adding a DECnet Entry

---

To choose DECnet, perform the following steps:

1. Select DECnet from the Select Network Protocol menu. `omnicfg` displays the Edit DECnet Service menu:

```
EDIT DECNET SERVICE
```

1. Nodename:
  2. Object:
  3. Name Alias:
  4. Server Type: master
  5. Delete this service from the interfaces entry
2. To change the default OmniCONNECT node name, select Nodename and enter the node name recorded on your worksheet.
  3. Select Object and enter the object number recorded on your worksheet. The range of valid object numbers is 128–253. Object names are not recommended.
  4. (Optional) Select Name Alias and enter the alias recorded on your worksheet.
  5. “Server type” refers to whether the entry is for a Master or Companion Server. The default is “master”.  
  
If you are creating an entry for a Companion Server, select “Server type”. At the prompt that asks if the OmniCONNECT is a Companion Server, type “y”.
  6. Skip to “Accepting the New Entry” on page 4-7.

## Adding an SPX Entry

---

To choose SPX, perform the following steps:

1. Select SPX from the Select Network Protocol menu. `omnicfg` displays the Edit SPX Service menu:

```
EDIT SPX SERVICE
```

1. Hostname/Address:
  2. Socket:
  3. Name Alias:
  4. Server Type: master
  5. Delete this service from the interfaces entry
2. To change the default OmniCONNECT host name, select Hostname/Address and enter the node name and ethernet address of the machine on which OmniCONNECT is installed, as recorded on your worksheet. Below is an example of what a hostname/address entry would look like:

```
00000001,AA0004002104
```

3. Select Socket and enter the socket number recorded on your worksheet. The range of valid socket numbers is 0x8000–0xBFFF.
4. (Optional) Select Name Alias and enter the OmniCONNECT alias recorded on your worksheet. `omnicfg` returns to the Edit SPX Service menu.
5. “Server Type” refers to whether the entry is for a Master or Companion Server. The default is “master.”

If you are creating an entry for a Companion Server, select “Server Type”. At the prompt that asks if the OmniCONNECT is a Companion Server, type “y”.

### Accepting the New Entry

1. Verify that all entries in the Edit [Protocol] Service menu (for the protocol you selected) are correct. If necessary, repeat the preceding instructions to correct an entry.
2. Press Ctrl-a to accept the displayed information. `omnicfg` asks you if the information is correct:

```
Is this information correct? n
```

3. Type “y” to proceed with the installation. `omnicfg` returns to the Server Interfaces File Entry Screen:

```
SERVER INTERFACES FILE ENTRY SCREEN
```

```
Server name: SYBASE
```

1. Retry Count: 5
2. Retry Delay: 5
3. Add a new listener service

```
Modify or delete a service
```

```
Listener services available:
```

	Protocol	Address	Port	Name Alias
4.	tcp	harpo	2500	HQ

`omnicfg` displays the listener information you entered under the heading “Listener services available.” You can modify or delete this information at any time by selecting the item number of the listener service (item 4 in the example above).

You can also create additional listener entries for the server by repeating the instructions for “Selecting Network Protocol” on

page 4-4. This ability to create multiple entries is especially useful for OmniCONNECTs that operate on networks with multiple protocols.

4. Press Ctrl-a to record the new information in the interfaces file. `omnicfg` prompts you to write the changes to the file:

```
Write the changes to the interfaces file now? n
```

5. Type “y” to write the information to the interfaces file. `omnicfg` returns to the OmniCONNECT Configuration menu and marks the first task “Complete.”

## Configuring the Master Device

---

1. Select Master Device Configuration from the OmniCONNECT Configuration menu. `omnicfg` continues with the Master Device Configuration menu:

```
MASTER DEVICE CONFIGURATION
```

```
1. Master Device: SYBASE_SYSTEM:[SYBASE]master.dat
2. Size: 17.00M
3: Contiguous: yes
```

2. Select Master Device and enter the file specification, as recorded on your worksheet. `omnicfg` returns to the Master Device Configuration menu.

### ◆ **WARNING!**

---

**Do not accept the default file specification for the master device, which places it on SYBASE\_SYSTEM. If you place the master device on SYBASE\_SYSTEM, you will encounter problems when you attempt to upgrade your OmniCONNECT.**

---

3. To change the displayed default size of 17MB, select Size. `omnicfg` prompts you for the size of the master device. Enter the size in megabytes as recorded on your worksheet.
4. The default for Contiguous is “yes.” If you entered “no” on your worksheet, select this item and type “no” at the prompt.  
See “Master Device Contiguity” on page 1-7 for an explanation of the two options for this menu item.
5. Verify that all entries in the Master Device Configuration menu are correct. If necessary, repeat the instructions in this section to correct an entry.

6. Press Ctrl-a to accept the information. `omnicfg` returns to the OmniCONNECT Configuration menu and marks the Master Device Configuration task “Complete.”

► **Note**

---

`omnicfg` does not create the master device or execute any other configuration options until you complete the installation instructions on page 4-18.

---

## Configuring *sybssystemprocs*

---

Select Sybssystemprocs Database Configuration from the OmniCONNECT Configuration menu. `omnicfg` displays the Sybssystemprocs Database Configuration menu:

```
SYBSYSTEMPROCS DATABASE CONFIGURATION
```

- ```
1. sybssystemprocs database size (Meg): 12
2. sybssystemprocs logical device name: sysprocsdev
3. create new device for the sybssystemprocs database: yes
4. physical name of new device:
SYBASE_SYSTEM:[SYBASE]sybprocs.dat
5. size of the new device (Meg): 12
```

### Entering Database Size

---

1. To change the displayed default size of 12MB, select Sybssystemprocs Database Size.
2. At the prompt, enter the new database size that you recorded on your worksheet. The size must be at least 12MB.

### Creating a New Device

---

For a first-time configuration of OmniCONNECT, you should create a new device for the *sybssystemprocs* database.

1. Select Sybsystemprocs Logical Device Name to change the default logical name displayed for the *sybsystemprocs* device.

◆ **WARNING!**

---

**Sybase recommends that you do not put the *sybsystemprocs* database on the master device.**

---

2. At the prompt, type the logical device name recorded on your worksheet.
3. If *omnicfg* does not display “yes” at Create New Device for the Sybsystemprocs Database, select the option to change the displayed value. *omnicfg* toggles this item’s setting to “yes”.
4. Select Physical Name of New Device.

◆ **WARNING!**

---

**Do not accept the default file specification for the *sybsystemprocs* device, which places it on SYBASE\_SYSTEM. If you place the *sybsystemprocs* device on SYBASE\_SYSTEM, you will encounter problems when you attempt to upgrade your OmniCONNECT.**

---

5. At the prompt, type the file specification to use for the *sybsystemprocs* device, as recorded on your worksheet.
6. Select Size of the New Device to change the displayed default size of 12MB. At the prompt, type the device size in megabytes, as recorded on your worksheet.
7. Press Ctrl-a to accept the settings displayed on the Sybsystemprocs Database Configuration menu. *omnicfg* returns to the OmniCONNECT Configuration menu and marks the Sybsystemprocs Database Configuration task “Complete.”

## Setting Error Log Location

---

1. Select Set Errorlog Location from the OmniCONNECT Configuration menu. *omnicfg* displays the Set Errorlog Location menu:

```
SET ERRORLOG LOCATION
```

1. OmniCONNECT errorlog: SYBASE\_SYSTEM:[SYBASE.install]errorlog.

► **Note**

If you have multiple OmniCONNECTs, you may want to enter a different error log specification for each OmniCONNECT you install. If you accept the default specification for each OmniCONNECT, all the servers will share the same error log.

2. If you want to change the displayed default location, select OmniCONNECT Errorlog. At the prompt, enter the file specification of the error log.
3. Record the file specification of the error log file on your worksheet.
4. Press Ctrl-a to accept the displayed error log file. `omnicfg` returns to the OmniCONNECT Configuration menu and marks the Set Errorlog Location task “Complete.”

## Configuring Languages

1. Select Configure Languages from the OmniCONNECT Configuration menu. `omnicfg` displays the Configure Languages menu shown below.

```
CONFIGURE LANGUAGES
```

```
Current default language: us_english
```

```
Current default character set: ISO 8859-1 (Latin-1) -
Western European 8-bit character set.
```

```
Current sort order: Binary ordering, for the ISO 8859/1 or
Latin-1 character set (iso_1).
```

Select the language you want to install, remove, or designate as the default language.

| Language      | Installed? | Remove | Install | Make Default |
|---------------|------------|--------|---------|--------------|
| 1. us_english | yes        | no     | no      | yes          |
| 2. french     | no         | no     | no      | no           |
| 3. german     | no         | no     | no      | no           |

The “Installed?” column indicates whether or not OmniCONNECT can currently use the language. For first-time installations, only the default language, U.S. English, is marked as installed.

The “Remove” column indicates whether or not `omnicfg` removes the language when you complete the OmniCONNECT configuration.

The “Install” column indicates whether or not `omnicfg` installs the language when you complete the configuration. By default, `omnicfg` installs no additional languages during a first-time installation.

The “Make Default” column indicates which language OmniCONNECT uses as the default language. Only one language can have a “yes” in the “Make Default” column. For first-time installations, `omnicfg` initially marks U.S. English as the default language.

2. To change the displayed language configuration, select the number of the language to install, remove, or make the default language.
3. If the language is not installed, `omnicfg` asks if you would like to install it. If the language has been installed, `omnicfg` asks if you would like to remove it. Type “y” or “n” to answer the question.
4. If you are installing a new language or changing the default language, `omnicfg` prompts you to indicate whether to make the language the new default. Type “y” or “n” to answer the question.
5. Repeat steps 2–4 to configure an additional language.
6. Record the default languages and any additional languages on your worksheet.
7. Press Ctrl-a when you have finished configuring OmniCONNECT languages. `omnicfg` returns to the OmniCONNECT Configuration menu and marks the Configure Languages task “Complete.”

## Configuring Character Sets

---

1. Select Configure Character Sets from the OmniCONNECT Configuration menu. `omnicfg` displays the Configure Character Sets menu:

```
CONFIGURE CHARACTER SETS
```

```
Current default language: us_english
```

```
Current default character set: ISO 8859-1 (Latin-1) -  
Western European 8-bit character set.
```

```
Current sort order: Binary ordering, for the ISO 8859/1 or  
Latin-1 character set (iso_1).
```

Select the character set you want to install, remove, or designate as the default character set.

| Character Set           | Installed? | Remove | Install | Make default |
|-------------------------|------------|--------|---------|--------------|
| 1. ASCII                | yes        | no     | no      | no           |
| 2. ISO 8859-1 (Latin-1) | yes        | no     | no      | yes          |
| 3. Hewlett-Packard      | no         | no     | no      | no           |
| 4. Code Page 850        | no         | no     | no      | no           |
| 5. Code Page 437        | no         | no     | no      | no           |
| 6. Macintosh default    | no         | no     | no      | no           |

The “Installed?” column indicates whether or not OmniCONNECT can currently use the character set.

The “Remove” column indicates whether or not `omnicfg` removes the character set when you complete the OmniCONNECT configuration.

The “Install” column indicates whether or not `omnicfg` installs the character set when you complete the OmniCONNECT configuration. By default, `omnicfg` installs no additional character sets during a first-time installation.

The “Make Default” column indicates which character set OmniCONNECT uses as the default. Only one character set can have a “yes” in the “Make Default” column. For first-time installations, `omnicfg` marks ISO 8859-1 as the default character set.

► **Note**

---

If you install French or German as OmniCONNECT’s default language, you must select one of the following single-byte character sets as the default: `roman8`, `cp850`, `cp437`, or `mac`.

---

- To change the displayed character set configuration, select the number of the character set you want to install, remove, or make the default character set.
- If the character set is not installed, `omnicfg` asks if you would like to install it. If the character set has been installed, `omnicfg` asks if you would like to remove it. Type “y” or “n” to answer the question.
- If you are installing a new character set or changing the default character set, `omnicfg` prompts you to indicate whether to make the character set the new default. Type “y” or “n” to answer the question.

5. Repeat steps 2–4 to configure an additional character set.
6. Record the default character set and any additional character sets on your worksheet.
7. Press Ctrl-a when you have finished configuring OmniCONNECT character sets. `omnicfg` returns to the OmniCONNECT Configuration menu and marks the Configure Character Sets task “Complete.”

## Configuring Sort Order

1. Select Configure Sort Order from the OmniCONNECT Configuration menu. `omnicfg` displays the Configure Sort Order menu. The options listed in this menu vary according to the character sets you have installed on OmniCONNECT.

```
CONFIGURE SORT ORDER
```

```
Current default language: us_english
```

```
Current default character set: ISO 8859-1 (Latin-1) -
Western European 8-bit character set.
```

```
Current sort order: Binary ordering, for the ISO 8859/1
or Latin-1 character set (iso_1).
```

```
Select a sort order.
```

| Sort Order                                                       | Chosen |
|------------------------------------------------------------------|--------|
| 1. Binary ordering, for the ISO 8859/1 or Latin-1 character set. | yes    |
| 2. General purpose dictionary sort ordering.                     | no     |
| 3. Dictionary order, case insensitive, accent insensitive.       | no     |
| 4. Dictionary order, case insensitive.                           | no     |
| 5. Dictionary order, case insensitive with preference.           | no     |
| 6. Spanish dictionary ordering.                                  | no     |
| 7. Spanish case and accent insensitive dictionary order.         | no     |
| 8. Spanish case insensitive dictionary order.                    | no     |

The “Chosen” column indicates which sort order `omnicfg` assigns as the OmniCONNECT default sort order. Only one sort order can have a “yes” in the “Chosen” column. For first-time installations, `omnicfg` marks binary ordering as the default sort order.

2. To change the default sort order, enter the number of the sort order to install.
3. Record the selected sort order on your worksheet.

4. Press Ctrl-a to accept the designated sort order. `omnicfg` returns to the OmniCONNECT Configuration menu and marks the Configure Sort Order task “Complete.”

## Activating Auditing

---

Select **Activate Auditing** from the OmniCONNECT Configuration menu. `omnicfg` displays the Activate Auditing menu:

```
ACTIVATE AUDITING
```

1. Install auditing: no
2. sybsecurity database size (Meg): 5
3. sybsecurity logical device name: sybsecurity
4. create new device for the sybsecurity database: no

► **Note**

---

By default, `omnicfg` does not install auditing. If you do not want to install auditing, press Ctrl-a and skip to “Completing the Installation” on page 4-18.

---

### Selecting Install Auditing

---

Select **Install Auditing** to toggle that option to “yes.” This selection indicates that `omnicfg` should install the auditing database and create the auditing device (if specified) when you execute the OmniCONNECT configuration as a whole. If you do not toggle **Install Auditing** to “yes,” `omnicfg` does not install the auditing feature, even if you set the remaining options on the menu.

► **Note**

---

Even after auditing is installed, no auditing occurs until a System Security Officer enables auditing with the auditing system procedures. See the *System Administration Guide* for information.

---

## Entering Database Size

---

By default, `omnicfg` creates a 5MB *sybsecurity* database. Depending on the amount and type of auditing you do, you may need to create a larger *sybsecurity* database.

To change the database size, select Sybsecurity Database Size (Meg). At the prompt, enter the database size you recorded on your worksheet.

### ◆ **WARNING!**

---

**Sybase recommends that you do not place the *sybsecurity* database on your master device. Doing so uses up valuable space that is best used for the system tables.**

---

## Creating a New Device

---

If you are installing a new OmniCONNECT, you should create a new device for the *sybsecurity* database. If you are configuring an existing OmniCONNECT, you can place the *sybsecurity* database on a new database device or on an existing device.

Skip to “Using an Existing Device” on page 4-17 to use an existing device.

1. Select Sybsecurity Logical Device Name. `omnicfg` prompts you for the new logical device name:

Enter the logical device name for the *sybsecurity* database:

2. Enter the new logical device name that you recorded on your worksheet.
3. Select Create New Device for the Sybsecurity Database. `omnicfg` toggles that item’s indicator to “yes” and adds two new options to the menu. The Activate Auditing menu now looks like this:

ACTIVATE AUDITING

1. Install auditing: yes
2. *sybsecurity* database size (Meg): 5
3. *sybsecurity* logical device name: *sybsecurity*
4. create new device for the *sybsecurity* database: yes
5. *sybsecurity* physical device name:
6. size of the new device (Meg):

4. Select Sybsecurity Physical Device Name. `omnicfg` prompts you for the physical device name.
5. Enter the file specification for the device, as recorded on your worksheet.

◆ **WARNING!**

---

**Do not accept the default file specification for the auditing device, which places it on SYBASE\_SYSTEM. If you place the auditing device on SYBASE\_SYSTEM, you will encounter problems when you attempt to upgrade your SQL Server.**

---

6. If you want to change the default device size of 5MB, select Size of the New Device (Meg), and enter the auditing device size.
7. Press Ctrl-a to accept the settings displayed on the Activate Auditing menu. `omnicfg` returns to the OmniCONNECT Configuration menu and marks the Activate Auditing task “Complete.”

### Using an Existing Device

---

Follow the instructions below only to reconfigure OmniCONNECT and to place the *sybsecurity* database on an existing database device:

1. Select Sybsecurity Logical Device Name from the OmniCONNECT Configuration menu. `omnicfg` prompts you for the new logical device name:

Enter the logical device name for the sybsecurity database:

2. Enter the logical device name of an existing database device, as recorded on your worksheet.
3. Press Ctrl-a to accept the settings displayed on the Activate Auditing menu. `omnicfg` returns to the OmniCONNECT Configuration menu and marks the Activate Auditing task “Complete.”

## Setting OmniCONNECT Quota File

---

1. Select **Set Quota File Location** from the **OmniCONNECT Configuration** menu. `omnicfg` displays the following menu:

```
SET QUOTA FILE LOCATION
```

1. OmniCONNECT quota file:

► **Note**

---

If you do not want to use a quota file, press `Ctrl-a` to accept the null specification and return to the “OmniCONNECT Configuration” menu.

---

2. Select **OmniCONNECT Quota File**.
3. At the prompt, enter the file specification of the quota file. There is no default file specification.
4. Record the file specification of the quota file on your worksheet.
5. Press `Ctrl-a` to accept the displayed file specification. `sybinit` returns to the **OmniCONNECT Configuration** menu.

## Completing the Installation

---

After you have completed the required configuration tasks, press `Ctrl-a` at the **OmniCONNECT Configuration** menu.

If you skipped any tasks in this chapter, `omnicfg` may display the warning:

```
Some OmniCONNECT configuration screens were never entered.
```

You cannot proceed with the installation until you enter the remaining items on the **OmniCONNECT Configuration** menu. Select the options marked “Incomplete” and press `Ctrl-a` at the submenus to accept the default values. When all of the items on the **OmniCONNECT Configuration** menu are marked “Complete,” press `Ctrl-a` again to proceed with the installation.

If you have completed all of the **OmniCONNECT** configuration items, `omnicfg` asks if you want to execute the configuration:

```
Execute the OmniCONNECT Configuration now?
```

At this point you can:

- Type “n” for “no” to return to the **OmniCONNECT Configuration** menu.

- Type “y” for “yes” to continue with the installation.

If you continue the installation, `omnicfg` performs a series of tasks, such as:

- Creating the master device
- Creating system tables
- Installing the language information
- Starting OmniCONNECT in the background
- Installing the auditing feature

`omnicfg` prints this message when the installation is successful:

```
Configuration completed successfully.
Press <return> to continue.
```

► **Note**

---

If any error messages appear, or the installation fails, see Appendix E.

---

Press Return to return to the New or Existing OmniCONNECT menu.

To exit `omnicfg`, press Ctrl-x repeatedly until you return to the shell prompt.

## Sample Databases

---

Scripts for installing sample databases on a SQL Server are located in the `SYBASE_SYSTEM:[SYBASE.scripts]` directory. The U.S. English sample database is called *pubs2*. The *SQL Server System Administration Guide* describes the contents of these databases in detail.

The following table lists the scripts that are used to create the U.S. English sample databases in a SQL Server:

Table 4-1: Scripts to create U.S. English sample database

| U.S. English Script                            | Description                                           |
|------------------------------------------------|-------------------------------------------------------|
| <code>[SYBASE.scripts]omni_ins_pubs2.</code>   | Installs <i>pubs2</i> database                        |
| <code>[SYBASE.scripts]omni_ins_pix2.</code>    | Installs <i>image</i> data into <i>pubs2</i> database |
| <code>[SYBASE.scripts]omni_exist_pubs2.</code> | Maps SQL Server <i>pubs2</i> data to OmniCONNECT      |

## Installing Sample Databases

---

The following steps explain how to install sample databases:

1. Using a text editor, replace instances of "SYBASE" with your actual target SQL Server name. The target SQL Server is where your *pubs2* data will reside (or already resides, as is the case when using scripts dependent on existing data).
2. Execute a U.S. English script with a command like the following:

```
isql /username="sa" /password="password" /servername=servername -
/input=SYBASE_SYSTEM:[SYBASE.scripts]omni_ins_pubs2.
```

where *sa* is the user ID of a System Administrator, *password* is the System Administrator's password, and *servername* is the target OmniCONNECT server.

## sybsyntax: online Help

---

*sybsyntax* is an online help database which allows users to retrieve online help. It is described fully in Volume 2 of the *SQL Server Reference Manual*. It is installed using a script found in *SYBASE\_SYSTEM:[SYBASE.scripts]omni\_ins\_syn\_sql*.

## Installing sybsyntax

---

Execute the installation script using *isql* as follows:

```
isql /username="sa"/password="password"/servername=servername -
/input=SYBASE_SYSTEM:[SYBASE.SCRIPTS]omni_ins_syn_sql.
```

where *sa* is the user ID of the System Administrator, *password* is the System Administrator's password, and *servername* is the name of the OmniConnect server on which you want to install the database.

To ensure you have installed the *sybsyntax* database and that it is working correctly, you can use *isql* to log into the OmniConnect server on which you installed the database, and execute *sp\_syntax*.

The following *isql* statement is an example:

```
isql /username="sa" /password="password" -
/servername=servername
> sp_syntax "sp_addobjectdef"
> go
```

## Setting the System Administrator Password

---

A user account called “sa” is created for the System Administrator when the SYBASE software is installed. A user logged in as “sa” can use any database on an OmniCONNECT, including *master*, with full privileges. “sa” automatically gets the same privileges of the Database Owner (“dbo”) when using a database.

Immediately after a new installation, there is no password on this user account. The initial and default value for a password is NULL. In a production environment, System Administrators should always have passwords.

The System Administrator should log into the new OmniCONNECT as “sa” and set a password with the `sp_password` system procedure:

```
isql /user="sa" /password="" /server="server_name"  
1> sp_password null, new_password  
2> go
```

See the *System Administration Guide* for more information.

## Backing Up New Software

---

Make a backup copy of your new OmniCONNECT installation.

## What's Next?

---

If you want to reconfigure your new OmniCONNECT, see Chapter 6.



# 5

## Upgrading OmniCONNECT

This chapter provides instructions for upgrading from OmniSQL Server 10.1.2 to OmniCONNECT 10.5.

### Who Should Read This Chapter

---

Read this chapter if you are upgrading OmniCONNECT from OmniSQL Server release 10.1.2. Otherwise, go on to Chapter 6.

### Requirements for Upgrading OmniCONNECT

---

You can upgrade to OmniCONNECT release 10.5 only if you currently use OmniSQL Server release 10.1.2.

### Understanding the Upgrade Process

---

The upgrade process requires that a new OmniCONNECT release 10.5 be installed in a separate directory and configured. After that is completed, objects from an existing 10.1.2 OmniSQL Server are migrated to the new server.

The `migrate` utility will establish one connection to a 10.1.2 OmniSQL Server (the source) and another connection to a release 10.5 OmniCONNECT (the target). It queries objects in the source and creates them in the target. An output file is created to record the processing of the utility. This file is a SQL script which can be edited and rerun as required.

### How to Upgrade

---

1. Read the instructions in this chapter before you begin your upgrade.
2. Install the new OmniCONNECT release 10.5 by completing the following:
  - Follow the steps in Chapter 2 to prepare for the installation.
  - Load the 10.5 software from media, as explained in Chapter 3, into a different directory from your 10.1.2 OmniSQL Server

installation. You need access to both directories to successfully upgrade OmniCONNECT.

3. Follow the instructions in Chapter 4.
4. Follow the instructions in this chapter to upgrade OmniCONNECT.

## Preparing for the Upgrade

---

To prepare for your upgrade, log into your OmniSQL Server 10.1.2 as System Administrator, using the `isql` utility.

```
isql /user="sa" /password="password" /server="server_name"
```

You must be the "sa" to perform the upgrade.

### Logging Off Users

---

1. Enter the `sp_who` command with no parameters:  

```
1> sp_who  
2> go
```
2. `sp_who` returns a table showing all users and processes on OmniCONNECT. Make sure all users are logged off.
3. Leave your server running.

### SYBASE\_SYSTEM Logical

---

If the SYBASE\_SYSTEM logical has been defined as a system level logical on VMS, you must make sure that during the upgrade process, the logical name is still pointing to the OmniSQL Server 10.1.2 directories while using a separate process logical for SYBASE\_SYSTEM. This process logical must point to the OmniCONNECT release 10.5 directory tree.

### Remote Servers

---

All remote servers defined to the source OmniSQL Server should be running when performing the migration, because the target OmniCONNECT will need to access the remote servers as part of the migration process.

OmniCONNECT release 10.5 requires that all remote servers contain entries in *sysexternlogins* for all users who access the remote server. `sp_addexternlogin` should be run against the OmniSQL Server 10.1.2 for all users who own objects in the remote server. Failure to do so may cause errors during the migration.

## Naming Devices

---

For each database that exists in the source OmniSQL Server, the `migrate` utility will ask the user for the name of a device on which to recreate the database in the target OmniCONNECT. The user must have already run `disk init` for each device on which a database will be created. It is not necessary to run `disk init` for the master device. The user will also be asked to specify a device for the database log, and to specify a size for the database and a size for the database log.

## Migrating NULL Values in RMS Files

---

In OmniSQL Server release 10.1.2 NULLS were allowed by default. In OmniCONNECT release 10.5 NULLS are not allowed by default. If you want to migrate your NULL values from OmniSQL Server 10.1.2 to OmniCONNECT release 10.5, the System Administrator must first issue the stored procedure `sp_configure` against OmniCONNECT release 10.5 as follows:

```
sp_configure "allow null in rms", 1
reconfigure
```

`sp_configure` is fully documented in the *OmniCONNECT User's Guide*.

## Local Tables

---

In OmniSQL Server releases issued before 10.5, it was possible to create local tables within the OmniSQL Server itself. With OmniCONNECT release 10.5, data can no longer be stored locally, but must be stored in a remote object location (database on a remote server or in an RMS file). That remote object must be created before running `migrate`, and it must be external to OmniCONNECT release 10.5. The location of the remote object is specified in an `sp_defaultloc` or `sp_addobjectdef` mapping.

During the `migrate` session the user will be prompted for a remote server and database to use for migrating OmniSQL Server 10.1.2 local tables.

## Entries in *sysexternlogins*

---

OmniCONNECT 10.5 requires that all remote servers contain entries in *sysexternlogins* for all users who access the remote server. Run `sp_addexternlogin` against the 10.1.2 OmniSQL Server for all users who own objects in the remote server. Errors can result during the migration if this step is not completed.

► *Note*

---

Only the System Administrator, can perform the upgrade tasks described in this guide. This consistency ensures that OmniCONNECT files and directories are created with consistent ownership and privileges.

---

## Executing the Upgrade

---

Execute the migrate utility using the following syntax.

### Function

The migrate utility allows users to upgrade their OmniSQL Server 10.1.2 databases to OmniCONNECT 10.5 databases. The utility will establish one connection to a 10.1.2 OmniSQL Server (the source) and another connection to a 10.5 OmniCONNECT (the target). It queries objects in the source and creates them in the target. An output file is created to record the processing of the utility.

The output file is a SQL script which can be used later as an input file to `isql` if problems occur during the migration.

### Syntax

```
migrate
    [/SOURCE_SERVER_NAME = source server]
    [/SOURCE_PASSWORD = [source password]]
    /TARGET_SERVER_NAME = target server
    [/TARGET_PASSWORD = [target password]]
    [/OUTPUT = output file name]
    [/VERBOSE]
    [/DATABASE]
    [/X]
    [/VERSION]
    [/DISPLAY_CHARSET = display charset]
    [/CLIENT_CHARSET = client charset]
    [/LANGUAGE = language]
```

## Parameters

**/SOURCE\_SERVER\_NAME = *source server*** – specifies the name of the 10.1.2 OmniSQL Server that you wish to migrate. If **/SOURCE\_SERVER\_NAME** is omitted, the server specified by the DSQUERY logical name is used.

**/SOURCE\_PASSWORD = [*source password*]** – specifies the password for the “sa” account of the source OmniSQL Server. If **/SOURCE\_PASSWORD** is omitted, the user will be prompted for a password.

**/TARGET\_SERVER\_NAME = *target server*** – specifies the name of the target 10.5 OmniCONNECT to which objects from the source server will be migrated. This parameter is required.

**/TARGET\_PASSWORD = [*target password*]** – specifies the password for the “sa” account of the target OmniCONNECT. If **/TARGET\_PASSWORD** is omitted, the user will be prompted for a password.

**/OUTPUT = *output file name*** – specifies the name of a file to write the output from the migration utility. If this parameter is omitted, output is directed to a file named *migrate.sql*.

**/VERBOSE** – runs migrate in verbose mode. Verbose mode will cause migrate to print informational messages as it performs its tasks.

**/DATABASE** – causes migrate to ask the user whether or not to proceed with the migration for each individual database. This is useful when the migration utility has previously been run and some of the source databases have already been migrated.

**/X** – creates a trace file called *debug*.

**/VERSION** – prints the migrate version and copyright strings. No other operations are performed and migrate exits.

**/DISPLAY\_CHARSET = *display charset*** – allows you to run migrate from a terminal whose character set differs from that of the machine on which migrate is running. **/DISPLAY\_CHARSET** in conjunction with **/CLIENT\_CHARSET** specifies the character set translation file (*.xlt* file) required for the conversion. Use **/DISPLAY\_CHARSET** without **/CLIENT\_CHARSET** only if the client character set is the same as the default character set.

`/CLIENT_CHARSET = client charset` – specifies that the OmniCONNECT convert to and from *client\_charset*, the character set used on the client. `/CLIENT_CHARSET` with no argument sets character conversion to NULL. No conversion takes place. Use this if the client and server use the same character set. Omitting `/CLIENT_CHARSET` sets the character set to the default for the platform. The default may not necessarily be the character set that the client is using.

`/LANGUAGE = language` – is the official name of an alternate language in which to display migrate messages. Without `/LANGUAGE`, migrate uses OmniCONNECT's default language.

### Comments

- All remote servers defined to the source OmniSQL Server should be running when performing the migration, because the target OmniCONNECT will need to access the remote servers as part of the migration process.
- Objects are migrated in the master database first in the following sequence:
  1. Servers
  2. Databases
  3. Logins
  4. Remote logins
  5. External logins
  6. Database options

For each database that is created, the following is done:

1. Set ownership
2. Define users and groups
3. Define aliases
4. Create rules and defaults
5. Add user datatypes
6. Bind rules and defaults to user datatypes
7. Create OmniCONNECT table definitions
8. Create local tables
9. Populate local tables
10. Bind rules and defaults to table columns
11. Create indices for local tables
12. Create local views
13. Create triggers
14. Create procedures
15. Grant permissions

- Passwords are now required for login names. Login names that have a NULL password in the source OmniSQL Server will be given a password of “migrate” in the target OmniCONNECT. Existing passwords are not written to the output script produced by the migration utility.
- `migrate` will create all remote table definitions in OmniCONNECT 10.5 using the create existing table statement. Therefore, remote tables originally created in OmniSQL Server 10.1.2 via the create table statement will not be deleted in the remote server if a drop table statement is issued in OmniCONNECT 10.5. Instead, only the table definition will be dropped.
- OmniSQL Server 10.1.2 tables may fail to migrate if they have `sp_addtabledef` parameters which do not specify a database or owner in the storage location. (such as *SYBASE...titles*). If this occurs, users should edit the *migrate.sql* script, adding database and owner to `sp_addobjectdef` locations (such as *SYBASE.master.dbo.titles*). Users should then use `isql` to run the *migrate.sql* script.

### If You Encounter Errors

---

While `migrate` is running, users should take note of all errors. Any inconsistencies within your OmniSQL Server 10.1.2 databases will result in errors during the migrate session.

If errors are returned during the migration process, the errors should be corrected. The `migrate` utility can be rerun by either executing all or part of the output script that the `migrate` utility creates. You can also rerun the migration utility with the `/DATABASE` option and select individual databases to migrate.

`migrate` can be run as often as required to eliminate errors.



# 6

## Reconfiguring OmniCONNECT

This chapter provides instructions for using `omnicfg` to reconfigure OmniCONNECT.

### Who Should Read This Chapter

---

Read this chapter if you want to:

- Reconfigure languages, character sets, or sort order for OmniCONNECT
- Activate auditing for OmniCONNECT
- Create or modify entries in the interfaces file

### Installing Language Modules Only

---

If you are installing Language Modules only, you can use `omnicfg` to reconfigure languages, character sets, or sort order. Perform the following steps to install Language Modules:

1. Prepare your operating system according to the instructions in Chapter 2. (These preparations are not necessary if you completed them when installing OmniCONNECT.)
2. Edit the *locales.dat* file to ensure it contains the proper definitions for your system.
3. Follow the instructions in this chapter to start an `omnicfg` session and reconfigure languages, character sets, or sort orders for OmniCONNECT.

See Chapter 1 for information on localization files and available languages, character sets, and sort orders.

### Editing the Locales File

---

The *locales.dat* file contains information on languages, character sets, and sort order for your SYBASE installation. You may want to edit this file when you:

- Add new Language Modules to your system
- Change the language or character set for OmniCONNECT

See “Editing the locales.dat File” on page 1-10 for instructions on editing the *locales.dat* file.

## Reconfiguring OmniCONNECT

---

1. If you did not exit `omnicfg` after a previous session, press `Ctrl-x` repeatedly until you reach the Configure Server Products menu.

If `omnicfg` is not running, start it from the operating system prompt by typing:

```
omnicfg
```

Select Configure Server Products from the main `omnicfg` menu.

2. At the Configure Server Products menu, select OmniCONNECT.
3. At the New or Existing OmniCONNECT menu, select Configure an Existing OmniCONNECT.
4. `omnicfg` displays the names of existing instances of OmniCONNECT as options.

```
CONFIGURE EXISTING OmniCONNECT
```

1. PUB
2. MARKET
3. SYBASE\_100

`omnicfg` does not allow you to select a server until you have reached the end of the list. If the entire list of servers does not fit on one screen, press `Ctrl-f` to scroll to the end of the list. Select the OmniCONNECT to reconfigure.

5. `omnicfg` displays the Enter SA Account Name and Password menu. Select “SA Account” and type the name of System Administrator account recorded on your worksheet. Select “SA Password” and type the password for that account. Press `Ctrl-a` to accept the account name and password.

`omnicfg` displays the OmniCONNECT Configuration menu.

## OmniCONNECT CONFIGURATION

|                                             |           |
|---------------------------------------------|-----------|
| 1. CONFIGURE SERVER'S INTERFACES FILE ENTRY | Unchanged |
| 2. MASTER DEVICE CONFIGURATION              | Unchanged |
| 3. SYSYSTEMPROCS DATABASE CONFIGURATION     | Unchanged |
| 4. SET ERRORLOG LOCATION                    | Unchanged |
| 5. CONFIGURE LANGUAGES                      | Unchanged |
| 6. CONFIGURE CHARACTER SETS                 | Unchanged |
| 7. CONFIGURE SORT ORDER                     | Unchanged |
| 8. ACTIVATE AUDITING                        | Unchanged |
| 9. Set Quota File Location                  | Unchanged |

---

**What's Next?**

When you have completed your installation, configuration, and upgrade tasks, read the *System Administration Guide* and *OmniCONNECT User's Guide* for information on getting started with OmniCONNECT.



# A

## Sample *VMSINSTAL* Session

This appendix contains the text of a sample *VMSINSTAL* session used to load software from distribution media. The session is an example only. The details of your session will differ from those shown here.

```
$ @SYSS$UPDATE:VMSINSTAL SYBASE020 MUA0:<Return>
VAX OpenVMS Software Product Installation Procedure V5.4-1A
```

```
It is 24-Sept.-1995 at 14:55.
```

```
Enter a question mark (?) at any time for help.
```

```
* Do you want to continue anyway [NO]? y<Return>
* Are you satisfied with the backup of your system disk [YES]?
y<Return>
```

```
Please mount the first volume of the set on MUA0:.
```

```
* Are you ready? y<Return>
```

```
%MOUNT-I-MOUNTED, SYBASE mounted on _RUTILE$MUA0:
```

```
The following products will be processed:
```

```
SYBASE V2.0
```

```
Beginning installation of SYBASE V2.0 at 14:56
```

```
%VMSINSTAL-I-RESTORE, Restoring product save set A ...
```

```
*****
```

```
SYBASE Installation Procedure
```

```
*****
```

```
Except for Customer Authorization String entry and product
choice entry, enter "?" at any prompt to receive help.
```

```
* Enter the definition of SYBASE_SYSTEM: SYBASE_100<Return>
```

```
A Secondary Installation allows two SYBASE product lines to
```

co-exist on the same cpu. The Primary Installation is intended to be the production environment. The Secondary Installation is to be used as a test environment, or conceivably, a second Primary system.

The main difference between the two types of installation is the way SYBASE logicals are defined. Logicals defined by the SYBASE definition command file SYLOGICALS.COM are defined with the "/SYSTEM" qualifier in a Primary system. In a Secondary installation, these logicals are defined at a process level, so that the same SYBASE logical names are used without overwriting the Primary SYBASE logicals. It is then up to each user of the Secondary system to execute the Secondary SYLOGICALS.COM command file, and it is suggested that these users place the following command in their LOGIN.COM:

```
"$ @'SYBASE_SECONDARY_PATH':[SYBASE.INSTALL]SYLOGICALS.COM"
```

where sybase\_secondary\_path is the logical or device entered as the SYBASE\_SYSTEM path during installation of the Secondary system.

If sybase\_secondary\_path is a logical, it should be defined in SYS\$MANAGER:SYSTARTUP.COM as a system logical.

```
* Is this a secondary installation [NO]? y<Return>
```

```
Please enter your Customer Authorization String, letters only:
```

```
> aswqer kgiort nbjgit mckgfh vbhgyq ioyu<Return>
```

```
Select the Sybase products to be installed:
```

```
Product No. 1: OmniCONNECT, 10.5, OpenVMS
```

Please enter the Product Numbers that you wish to install, one per line. Terminate your entries with a blank line.

```
> 1<Return>
> 2<Return>
> 3<Return>
> 4<Return>
> <Return>
```

The following products were chosen for installation:

Choice No. 1: OmniCONNECT, 10.5, OpenVMS

If this list is correct as shown,  
please enter 'y' or 'Y' to continue,  
'q' or 'Q' to quit,  
or any other character to make another set of choices: **y<Return>**

All Questions have been asked, installation continuing

%SYBASE-I-RESTORE\_SAVESET, Restoring SQL Server, Release 10.0  
Files...

%SYBASE-I-RESTORE\_SAVESET, Restoring Language Module, French  
Server, Release 10.0 Files...

%SYBASE-I-RESTORE\_SAVESET, Restoring Language Module, German  
Server, Release 10.0 Files...

%SYBASE-I-DECOMP\_SAVESET, Decompressing contents of saveset  
100\_ds.b

%SYBASE-I-DECOMP\_SAVESET, Decompressing contents of saveset  
100\_lmsf.y

%SYBASE-I-DECOMP\_SAVESET, Decompressing contents of saveset  
100\_lmsg.y

%SYBASE-I-CREATE\_TREE, Creating the Sybase Directory Structure...

%SYBASE-I-WRITE\_SERNO, Writing the Serial Number file

-SYBASE-I-WRITE\_SERNO, SYBASE\_SYSTEM:[SYBASE.MSGS]SERNO\_GLOBAL...

%SYBASE-I-WRITE\_SYLOGICALS, Writing the Sybase Definitions  
Command file

-SYBASE-I-WRITE\_SYLOGICALS,  
SYBASE\_SYSTEM:[SYBASE.INSTALL]SYLOGICALS.COM...

\*\*\*\*\*

The SYBASE Product Distribution has successfully completed.

\*\*\*\*\*

Installation of SYBASE V2.0 completed at 15:35

VMSINSTAL procedure done at 15:35

# B

## Sample Installation Session

This appendix contains the text of an `omnicfg` session used to install a new OmniCONNECT. The following table summarizes the details of the configuration. For instructions on installing OmniCONNECT, read Chapter 4 of this guide.

Table B-1: Sample configuration for new OmniCONNECT

| Item                                            | Response                                          |
|-------------------------------------------------|---------------------------------------------------|
| SYBASE home directory:                          | <i>sybase_system:[sybase]</i>                     |
| OmniCONNECT name:                               | TESTER                                            |
| <u>OmniCONNECT Connection Information</u>       |                                                   |
| Retry count:                                    | 5                                                 |
| Retry delay:                                    | 5                                                 |
| <u>OmniCONNECT Listener Service</u>             |                                                   |
| Hostname/Address:                               | 130.214.80.44                                     |
| Protocol:                                       | TCP                                               |
| Port:                                           | 7543                                              |
| Server type:                                    | master                                            |
| Name alias:                                     | TESTER_TCP                                        |
| <u>Master Device Configuration</u>              |                                                   |
| Name:                                           | <i>sybase_devices:[tester]master.dat</i>          |
| Size:                                           | 30MB                                              |
| Contiguous:                                     | yes                                               |
| <u>System Procedures Database Configuration</u> |                                                   |
| Database size:                                  | 12MB                                              |
| Logical device name:                            | <i>sysprocsdev</i>                                |
| Physical device name:                           | <i>sybase_devices:[tester]sysprocs.dat</i>        |
| Physical device size:                           | 12MB                                              |
| <u>Localization Configuration</u>               |                                                   |
| Language:                                       | us_english                                        |
| Character sets:                                 | ascii, cp437, iso_1 (default)                     |
| Sort order:                                     | binary                                            |
| <u>Auditing Configuration</u>                   |                                                   |
| <i>sybsecurity</i> database size:               | 5MB                                               |
| Logical device name:                            | <i>sybsecurity</i>                                |
| Physical device name:                           | <i>sybase_devices:[tester]sybsecurity.dat</i>     |
| Physical device size:                           | 25MB                                              |
| OmniCONNECT Quota File Path:                    | <i>sybase_system:[sybase.install]TESTER.quota</i> |

```
@sybase_system:[sybase.install]sybase_manager <Return>
```

```
omnicfg <Return>
```

```
The log file for this session is  
'SYBASE_SYSTEM:[SYBASE.INIT.LOGS]log1014.1'.
```

```
omnicfg
```

1. Release Directory: SYBASE\_SYSTEM:[SYBASE]  
Type of Installation: secondary (process-level  
or group-level access)
2. Edit / View Interfaces File
3. Configure a Server product
4. Configure an Open Client/Server product

```
Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.
```

```
Enter the number of your choice and press return: 3 <Return>
```

```
CONFIGURE SERVER PRODUCTS
```

```
Products:
```

| Product        | Date Installed  | Date Configured |
|----------------|-----------------|-----------------|
| 1. OmniCONNECT | Jul 16 95 16:33 |                 |

```
Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.
```

```
Enter the number of your choice and press return: 1 <Return>
```

```
NEW OR EXISTING OmniCONNECT
```

1. Configure a new OmniCONNECT
2. Configure an existing OmniCONNECT
3. Upgrade an existing OmniCONNECT

```
Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.
```

```
Enter the number of your choice and press return: 1 <Return>
```

```
ADD NEW OmniCONNECT
```

1. OmniCONNECT name: SYBASE

```
Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.
```

```
Enter the number of your choice and press return: 1 <Return>
```

```
Enter the name of the new OmniCONNECT (default is 'SYBASE'):
```

**PRODUCT10 <Return>**

ADD NEW OmniCONNECT

1. OmniCONNECT name: PRODUCT10

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **Ctrl-a**

OmniCONNECT CONFIGURATION

|                                             |            |
|---------------------------------------------|------------|
| 1. CONFIGURE SERVER'S INTERFACES FILE ENTRY | Incomplete |
| 2. MASTER DEVICE CONFIGURATION              | Incomplete |
| 3. SYBSYSTEMPROCS DATABASE CONFIGURATION    | Incomplete |
| 4. SET ERRORLOG LOCATION                    | Incomplete |
| 5. CONFIGURE LANGUAGES                      | Incomplete |
| 6. CONFIGURE CHARACTER SETS                 | Incomplete |
| 7. CONFIGURE SORT ORDER                     | Incomplete |
| 8. ACTIVATE AUDITING                        | Incomplete |
| 9. SET QUOTA FILE LOCATION                  | Incomplete |

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **1 <Return>**

SERVER INTERFACES FILE ENTRY SCREEN

Server name: PRODUCT10

1. Retry Count: 0
2. Retry Delay: 0
3. Add a new listener service

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **1 <Return>**

Enter the retry count (default is '0'): **5 <Return>**

SERVER INTERFACES FILE ENTRY SCREEN

Server name: PRODUCT10

1. Retry Count: 5
2. Retry Delay: 0
3. Add a new listener service

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **2 <Return>**

Enter the delay interval between retries (default is '0'):

**5 <Return>**

SERVER INTERFACES FILE ENTRY SCREEN

Server name: PRODUCT10

1. Retry Count: 5
2. Retry Delay: 5
3. Add a new listener service

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **3 <Return>**

SELECT NETWORK PROTOCOL

1. TCP
2. DECnet
3. SPX

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **1 <Return>**

EDIT TCP SERVICE

1. Hostname/Address: 130.214.80.44
2. Port:
3. Name Alias:
4. Server Type: master
5. Delete this service from the interfaces entry

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **2 <Return>**

Enter the port number to use for this entry (default is ''):

**7543 <Return>**

EDIT TCP SERVICE

1. Hostname/Address: 130.214.80.44
2. Port: 7543
3. Name Alias:
4. Server Type: master
5. Delete this service from the interfaces entry

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.  
Enter the number of your choice and press return: **3 <Return>**  
Enter the name alias to use for this entry (default is ``):  
PRODUCT10\_TCP <Return>

EDIT TCP SERVICE

1. Hostname/Address: 130.214.80.44
2. Port: 7543
3. Name Alias: PRODUCT10\_TCP
4. Server Type: master
5. Delete this service from the interfaces entry

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.  
Enter the number of your choice and press return: **Ctrl-a**  
Is this information correct? **y <Return>**

SERVER INTERFACES FILE ENTRY SCREEN

Server name: PRODUCT10

1. Retry Count: 5
2. Retry Delay: 5
3. Add a new listener service

Modify or delete a service

Listener services available:

|    | Protocol | Address       | Port | Name Alias    |
|----|----------|---------------|------|---------------|
| 4. | tcp      | 130.214.80.44 | 7543 | PRODUCT10_TCP |

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.  
Enter the number of your choice and press return: **Ctrl-a**  
Write the changes to the interfaces file now? **y <Return>**

OmniCONNECT CONFIGURATION

---

|                                             |            |
|---------------------------------------------|------------|
| 1. CONFIGURE SERVER'S INTERFACES FILE ENTRY | Complete   |
| 2. MASTER DEVICE CONFIGURATION              | Incomplete |
| 3. SYBSYSTEMPROCS DATABASE CONFIGURATION    | Incomplete |
| 4. SET ERRORLOG LOCATION                    | Incomplete |
| 5. CONFIGURE LANGUAGES                      | Incomplete |
| 6. CONFIGURE CHARACTER SETS                 | Incomplete |
| 7. CONFIGURE SORT ORDER                     | Incomplete |
| 8. ACTIVATE AUDITING                        | Incomplete |
| 9. SET QUOTA FILE LOCATION                  | Incomplete |

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **2 <Return>**

#### MASTER DEVICE CONFIGURATION

1. Master Device: SYBASE\_SYSTEM:[SYBASE]master.dat
2. Size (Meg): 17.00
3. Contiguous: yes

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **1 <Return>**

Enter the pathname of the OmniCONNECT's master device (default is 'SYBASE\_SYSTEM:[SYBASE]master.dat'):

**sybase\_devices:[tester]master.dat <Return>**

#### MASTER DEVICE CONFIGURATION

1. Master Device: sybase\_devices:[tester]master.dat
2. Size (Meg): 17.00
3. Contiguous: yes

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **Ctrl-a**

#### OmniCONNECT CONFIGURATION

|                                             |            |
|---------------------------------------------|------------|
| 1. CONFIGURE SERVER'S INTERFACES FILE ENTRY | Complete   |
| 2. MASTER DEVICE CONFIGURATION              | Complete   |
| 3. SYBSYSTEMPROCS DATABASE CONFIGURATION    | Incomplete |
| 4. SET ERRORLOG LOCATION                    | Incomplete |
| 5. CONFIGURE LANGUAGES                      | Incomplete |
| 6. CONFIGURE CHARACTER SETS                 | Incomplete |
| 7. CONFIGURE SORT ORDER                     | Incomplete |
| 8. ACTIVATE AUDITING                        | Incomplete |
| 9. SET QUOTA FILE LOCATION                  | Incomplete |

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **3 <Return>**

SYBSYSTEMPROCS DATABASE CONFIGURATION

1. sybsystemprocs database size (Meg): 12
2. sybsystemprocs logical device name: sysprocsdev
3. create new device for the sybsystemprocs database: yes
4. physical name of new device:  
SYBASE\_SYSTEM:[SYBASE]sybprocs.dat
5. size of the new device (Meg): 12

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **4 <Return>**

Enter the physical device name for the sybsystemprocs database :  
**sybase\_devices:[tester]sybprocs.dat <Return>**

SYBSYSTEMPROCS DATABASE CONFIGURATION

1. sybsystemprocs database size (Meg): 12
2. sybsystemprocs logical device name: sysprocsdev
3. create new device for the sybsystemprocs database: yes
4. physical name of new device:  
sybase\_devices:[tester]sybprocs.dat
5. size of the new device (Meg): 12

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **Ctrl-a**

OmniCONNECT CONFIGURATION

|                                             |            |
|---------------------------------------------|------------|
| 1. CONFIGURE SERVER'S INTERFACES FILE ENTRY | Complete   |
| 2. MASTER DEVICE CONFIGURATION              | Complete   |
| 3. SYBSYSTEMPROCS DATABASE CONFIGURATION    | Complete   |
| 4. SET ERRORLOG LOCATION                    | Incomplete |
| 5. CONFIGURE LANGUAGES                      | Incomplete |
| 6. CONFIGURE CHARACTER SETS                 | Incomplete |
| 7. CONFIGURE SORT ORDER                     | Incomplete |
| 8. ACTIVATE AUDITING                        | Incomplete |
| 9. SET QUOTA FILE LOCATION                  | Incomplete |

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **4 <Return>**

SET ERRORLOG LOCATION

1. OmniCONNECT errorlog: SYBASE\_SYSTEM:[SYBASE.install]errorlog.

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **Ctrl-a**

OmniCONNECT CONFIGURATION

|                                             |            |
|---------------------------------------------|------------|
| 1. CONFIGURE SERVER'S INTERFACES FILE ENTRY | Complete   |
| 2. MASTER DEVICE CONFIGURATION              | Complete   |
| 3. SYBSYSTEMPROCS DATABASE CONFIGURATION    | Complete   |
| 4. SET ERRORLOG LOCATION                    | Complete   |
| 5. CONFIGURE LANGUAGES                      | Incomplete |
| 6. CONFIGURE CHARACTER SETS                 | Incomplete |
| 7. CONFIGURE SORT ORDER                     | Incomplete |
| 8. ACTIVATE AUDITING                        | Incomplete |
| 9. SET QUOTA FILE LOCATION                  | Incomplete |

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **5 <Return>**

CONFIGURE LANGUAGES

Current Default Language: us\_english

Current Default Character Set: ISO 8859-1 (Latin-1) -  
Western European 8-bit character set.

Current Sort Order: Binary ordering, for the ISO 8859/1 or  
Latin-1 character set (iso\_1).

Select the language you want to install, remove, or designate as the default language.

| Language      | Installed? | Remove | Install | Make Default |
|---------------|------------|--------|---------|--------------|
| 1. us_english | yes        | no     | no      | yes          |

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **Ctrl-a**

OmniCONNECT CONFIGURATION

|                                             |            |
|---------------------------------------------|------------|
| 1. CONFIGURE SERVER'S INTERFACES FILE ENTRY | Complete   |
| 2. MASTER DEVICE CONFIGURATION              | Complete   |
| 3. SYBSYSTEMPROCS DATABASE CONFIGURATION    | Complete   |
| 4. SET ERRORLOG LOCATION                    | Complete   |
| 5. CONFIGURE LANGUAGES                      | Complete   |
| 6. CONFIGURE CHARACTER SETS                 | Incomplete |
| 7. CONFIGURE SORT ORDER                     | Incomplete |
| 8. ACTIVATE AUDITING                        | Incomplete |
| 9. SET QUOTA FILE LOCATION                  | Incomplete |

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **6<Return>**

CONFIGURE CHARACTER SETS

Current Default Language: us\_english

Current Default Character Set: ISO 8859-1 (Latin-1) - Western European 8-bit character set.

Current Sort Order: Binary ordering, for the ISO 8859/1 or Latin-1 character set (iso\_1).

Select the character set you want to install remove or designate as the default character set.

| Character Set               | Installed? | Remove | Install | Make Default |
|-----------------------------|------------|--------|---------|--------------|
| 1. ASCII, for use with unsp | yes        | no     | no      | no           |
| 2. Code Page 437, (United S | no         | no     | no      | no           |
| 3. Code Page 850 (Multiling | no         | no     | no      | no           |
| 4. ISO 8859-1 (Latin-1) - W | yes        | no     | no      | yes          |
| 5. Macintosh default charac | no         | no     | no      | no           |
| 6. Hewlett-Packard propri   | no         | no     | no      | no           |

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **2 <Return>**

Install this character set? **y**

Make this character set the default character set? **n**

#### CONFIGURE CHARACTER SETS

Current Default Language: us\_english

Current Default Character Set: ISO 8859-1 (Latin-1) -  
Western European 8-bit character set.

Current Sort Order: Binary ordering, for the ISO 8859/1 or  
Latin-1 character set (iso\_1).

Select the character set you want to install remove or designate  
as the default character set.

| Character Set               | Installed? | Remove | Install | Make Default |
|-----------------------------|------------|--------|---------|--------------|
| 1. ASCII, for use with unsp | yes        | no     | no      | no           |
| 2. Code Page 437, (United S | no         | no     | yes     | no           |
| 3. Code Page 850 (Multiling | no         | no     | no      | no           |
| 4. ISO 8859-1 (Latin-1) - W | yes        | no     | no      | yes          |
| 5. Macintosh default charac | no         | no     | no      | no           |
| 6. Hewlett-Packard propriet | no         | no     | no      | no           |

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **Ctrl-a**

#### OmniCONNECT CONFIGURATION

|                                             |            |
|---------------------------------------------|------------|
| 1. CONFIGURE SERVER'S INTERFACES FILE ENTRY | Complete   |
| 2. MASTER DEVICE CONFIGURATION              | Complete   |
| 3. SYBSYSTEMPROCS DATABASE CONFIGURATION    | Complete   |
| 4. SET ERRORLOG LOCATION                    | Complete   |
| 5. CONFIGURE LANGUAGES                      | Complete   |
| 6. CONFIGURE CHARACTER SETS                 | Complete   |
| 7. CONFIGURE SORT ORDER                     | Incomplete |
| 8. ACTIVATE AUDITING                        | Incomplete |
| 9. SET QUOTA FILE LOCATION                  | Incomplete |

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **7<Return>**

CONFIGURE SORT ORDER

Current Default Language: us\_english

Current Default Character Set: ISO 8859-1 (Latin-1) -  
Western European 8-bit character set.

Current Sort Order: Binary ordering, for the ISO 8859/1 or  
Latin-1 character set (iso\_1).

Select a sort order.

| Sort Order                                                 | Chosen |
|------------------------------------------------------------|--------|
| 1. Binary ordering, for the ISO 8859/1 or Latin-1 charact  | yes    |
| 2. General purpose dictionary ordering.                    | no     |
| 3. Dictionary order, case insensitive, accent insensitive. | no     |
| 4. Dictionary order, case insensitive.                     | no     |
| 5. Dictionary order, case insensitive with preference.     | no     |

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **Ctrl-a**

OmniCONNECT CONFIGURATION

|                                             |            |
|---------------------------------------------|------------|
| 1. CONFIGURE SERVER'S INTERFACES FILE ENTRY | Complete   |
| 2. MASTER DEVICE CONFIGURATION              | Complete   |
| 3. SYBSYSTEMPROCS DATABASE CONFIGURATION    | Complete   |
| 4. SET ERRORLOG LOCATION                    | Complete   |
| 5. CONFIGURE LANGUAGES                      | Complete   |
| 6. CONFIGURE CHARACTER SETS                 | Complete   |
| 7. CONFIGURE SORT ORDER                     | Complete   |
| 8. ACTIVATE AUDITING                        | Incomplete |
| 9. SET QUOTA FILE LOCATION                  | Incomplete |

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **8 <Return>**

ACTIVATE AUDITING

1. Install auditing: no
2. sybsecurity database size (Meg): 5
3. sybsecurity logical device name: sybsecurity
4. create new device for the sybsecurity database: no

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **1 <Return>**

## ACTIVATE AUDITING

1. Install auditing: yes
2. sybsecurity database size (Meg): 5
3. sybsecurity logical device name: sybsecurity
4. create new device for the sybsecurity database: no

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **4 <Return>**

## ACTIVATE AUDITING

1. Install auditing: yes
2. sybsecurity database size (Meg): 5
3. sybsecurity logical device name: sybsecurity
4. create new device for the sybsecurity database: yes
5. sybsecurity physical device name:  
SYBASE\_SYSTEM:[SYBASE]sybsecur.dat
6. size of the new device (Meg): 5

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **5 <Return>**

Enter the physical name of the device to use for the sybsecurity database (default is 'SYBASE\_SYSTEM:[SYBASE]sybsecurity.dat'):

**sybase\_devices:[tester]sybsecur.dat<Return>**

## ACTIVATE AUDITING

1. Install auditing: yes
2. sybsecurity database size (Meg): 5
3. sybsecurity logical device name: sybsecurity
4. create new device for the sybsecurity database: yes
5. sybsecurity physical device name:  
sybase\_devices:[tester]sybsecur.dat
6. size of the new device (Meg): 5

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **6 <Return>**

Enter the size of the new device: **25 <Return>**

ACTIVATE AUDITING

1. Install auditing: yes
2. sybsecurity database size (Meg): 5
3. sybsecurity logical device name: sybsecurity
4. create new device for the sybsecurity database: yes
5. sybsecurity physical device name:  
sybase\_devices:[tester]sybsecurity.dat
6. size of the new device (Meg): 25

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **Ctrl-a**

OmniCONNECT CONFIGURATION

- |                                             |            |
|---------------------------------------------|------------|
| 1. CONFIGURE SERVER'S INTERFACES FILE ENTRY | Complete   |
| 2. MASTER DEVICE CONFIGURATION              | Complete   |
| 3. SYBSYSTEMPROCS DATABASE CONFIGURATION    | Complete   |
| 4. SET ERRORLOG LOCATION                    | Complete   |
| 5. CONFIGURE LANGUAGES                      | Complete   |
| 6. CONFIGURE CHARACTER SETS                 | Complete   |
| 7. CONFIGURE SORT ORDER                     | Complete   |
| 8. ACTIVATE AUDITING                        | Complete   |
| 9. SET QUOTA FILE LOCATION                  | Incomplete |

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **9 <Return>**

SET QUOTA FILE LOCATION

1. OmniCONNECT quota file:

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **1 <Return>**

Enter the pathname of the OmniCONNECT's quota file:

**sybase\_system:[sybase.install]TESTER.quota<Return>**

SET QUOTA FILE LOCATION

1. OmniCONNECT quota file:

sybase\_system:[sybase.install]TESTER.quota

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **Ctrl-a**

OmniCONNECT CONFIGURATION

|                                             |          |
|---------------------------------------------|----------|
| 1. CONFIGURE SERVER'S INTERFACES FILE ENTRY | Complete |
| 2. MASTER DEVICE CONFIGURATION              | Complete |
| 3. SYBSYSTEMPROCS DATABASE CONFIGURATION    | Complete |
| 4. SET ERRORLOG LOCATION                    | Complete |
| 5. CONFIGURE LANGUAGES                      | Complete |
| 67. CONFIGURE CHARACTER SETS                | Complete |
| 7. CONFIGURE SORT ORDER                     | Complete |
| 9. SET QUOTA FILE LOCATION                  | Complete |

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **Ctrl-a**

Execute the OmniCONNECT Configuration now? **y**

**At this point, omnicfg displays a series of messages showing the progress of each OmniCONNECT installation task. Upon completing each task, omnicfg displays a "Task Succeeded" message, as in:**

Task to create the master device succeeded.

**After completing all of the installation tasks, omnicfg continues with the message:**

Configuration completed successfully.

Press <return> to continue. **<Return>**

NEW OR EXISTING OmniCONNECT

1. Configure a new OmniCONNECT
2. Configure an existing OmniCONNECT

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **Ctrl-x**

CONFIGURE SERVER PRODUCTS

Products:

| Product        | Date Installed  | Date Configured |
|----------------|-----------------|-----------------|
| 1. OmniCONNECT | Jul 16 95 16:33 | Aug 8 95 14:59  |

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **2 <Return>**

SERVER INTERFACES FILE ENTRY SCREEN

Server name: PRODUCT\_BSRV

1. Retry Count: 0
2. Retry Delay: 0
3. Add a new listener service

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **1 <Return>**

Enter the number retry count (default is '0'):

**10 <Return>**

SERVER INTERFACES FILE ENTRY SCREEN

Server name: PRODUCT\_BSRV

1. Retry Count: 10
2. Retry Delay: 0
3. Add a new listener service

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **2 <Return>**

Enter the delay interval between retries (default is '0'):

**10 <Return>**

SERVER INTERFACES FILE ENTRY SCREEN

Server name: PRODUCT\_BSRV

1. Retry Count: 10
2. Retry Delay: 10
3. Add a new listener service

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.

Enter the number of your choice and press return: **3 <Return>**

SELECT NETWORK PROTOCOL

1. TCP
2. DECnet
3. SPX

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.  
Enter the number of your choice and press return: **1 <Return>**

EDIT TCP SERVICE

1. Hostname/Address: 130.214.80.44
2. Port:
3. Name Alias:
4. Server Type: master
5. Delete this service from the interfaces entry

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.  
Enter the number of your choice and press return: **2 <Return>**  
Enter the port number to use for this entry (default is ``):  
7544 <Return>

EDIT TCP SERVICE

1. Hostname/Address: 130.214.80.44
2. Port: 7544
3. Name Alias:
4. Server Type: master
5. Delete this service from the interfaces entry

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.  
Enter the number of your choice and press return: **3 <Return>**

Configuration completed successfully.  
Press <return> to continue. **<Return>**

NEW OR EXISTING OmniCONNECT

1. Configure a new OmniCONNECT
2. Configure an existing OmniCONNECT

Ctrl-a Accept and Continue, Ctrl-x Exit Screen, ? Help.  
Enter the number of your choice and press return: **Ctrl-c**  
Exit omnicfg? **y**

Exiting.  
The log file for this session is  
'SYBASE\_SYSTEM:[SYBASE.INIT.LOGS]log1014.1'.

# C

## Sample Upgrade Session

This appendix contains the text of a migrate session used to upgrade a release 10.1.2 OmniSQL Server to release 10.5. For instructions on upgrading OmniCONNECT to 10.5, read Chapter 5 of this guide.

```
migrate /SOURCE_SERVER_NAME=OMNI_A /TARGET_SERVER_NAME=OMNI_B -  
/VERBOSE
```

```
Enter the SOURCE OmniSQL Server's "sa" account password:
```

```
Enter the TARGET OmniCONNECT "sa" account password:
```

```
Connected to 'OMNI_A' OmniSQL Server/10.1.2/P/Sun4/SunOS  
4.1.2/1/OPT/29-Jul-1994 10:35:53
```

```
Connected to 'OMNI_B' OmniCONNECT /10.5/P/Sun_svr4/OS  
5.3/1/OPT/08-Jun-1995 13:01:35
```

```
Migrating servers ...
```

```
Adding server 'SQLSERVER_1', physical name 'SQLSERVER_1'  
Server added.
```

```
Adding server 'SQLSERVER_2', physical name 'SQLSERVER_2'  
Server added.
```

```
Adding server 'db2', physical name 'blue1'  
Server added.
```

```
Adding server 'rdbam', physical name 'rdbam'  
Server added.
```

```
Enter the network name for the SOURCE Omni server 'OMNI_A'  
(<CR>='OMNI_A'):
```

```
Adding server 'OMNI_A', physical name 'OMNI_A'  
Server added.
```

```
Creating databases ...
```

Ready to create database 'pubs' in Omni server 'OMNI\_B'.  
Enter the device where the database is to be created (<CR>=do  
not create database):

Ready to create database 'pubs2' in Omni server 'OMNI\_B'.  
Enter the device where the database is to be created (<CR>=do  
not create database): default  
Enter the number of Megabytes to allocate for the database: 2  
Enter the device where the log is to be created: logs  
Enter the number of Megabytes to allocate for the log: 1  
CREATE DATABASE: allocating 1024 pages on disk 'master'  
CREATE DATABASE: allocating 512 pages on disk 'logs'

Enter the object type to be used when creating local Omni tables  
(1=TABLE, 2=RMS FILE, <CR>=IGNORE: 1  
Enter the REMOTE server location to be used when creating local  
Omni tables in the form 'SERVER.DATABASE.OWNER':  
SQLSERVER\_1.omnitable.dbo  
Created default location for database 'pubs2' at  
'SQLSERVER\_1.omnitable.dbo.'

Migrating logins ...

Passwords are now required for logins.  
Login 'wilma' will be added with the password 'migrate'.  
Password correctly set.  
Account unlocked.  
New login created.

Passwords are now required for logins.  
Login 'barney' will be added with the password 'migrate'.

```
Passwords are now required for logins.
Login 'andrea' will be added with the password 'migrate'.
Password correctly set.
Account unlocked.
New login created.
Autoconnect ON for user 'andrea', server 'rdbam'

Migrating remote logins ...

New remote login created.
New remote login created.

Migrating external logins ...

User 'newt' will be known as 'newt' in remote server
'SQLSERVER_1'.
Run the 'CHECKPOINT' command to update your in-memory remote
connection structures.
User 'sa' will be known as 'sybase' in remote server 'rdbam'.
User 'newt' will be known as 'newt' in remote server 'rdbam'.
User 'andrea' will be known as 'sybase' in remote server 'rdbam'.
Run the 'CHECKPOINT' command to update your in-memory remote
connection structures.
Defining user objects in database 'master' ...

New user added.
New group added.
New user added.
Migrating local tables ...
Getting column information for table 'dbo.tab1'
Getting column information for table 'dbo.tab2'
Getting column information for table 'dbo.tab3'
Creating table 'dbo.tab1'
Populating table 'dbo.tab1'
```

```
Creating table 'dbo.tab2'
Populating table 'dbo.tab2'
Creating table 'dbo.tab3'
Populating table 'dbo.tab3'
Creating indexes for 'dbo.tab1'
Creating indexes for 'dbo.tab2'
Creating indexes for 'dbo.tab3'
Binding rules to columns ...
Binding defaults to columns ...
Migrating views and triggers ...
Migrating procedures ...
Defining user objects in database 'model' ...

Migrating local tables ...
Binding rules to columns ...
Binding defaults to columns ...
Migrating views and triggers ...
Migrating procedures ...
Migrating permissions ...
Defining user objects in database 'pubs2' ...

New user added.
Defining table 'SQLSERVER_1.pubs2.dbo.au_pix' as
'pubs2.dbo.au_pix'
Defining table 'SQLSERVER_1.pubs2.dbo.authors' as
'pubs2.dbo.authors'
Defining table 'SQLSERVER_1.pubs2.dbo.blurbs' as
'pubs2.dbo.blurbs'
Defining table 'SQLSERVER_1.pubs2.dbo.blurbs_into' as
'pubs2.dbo.blurbs_into'
Defining table 'SQLSERVER_1.pubs2.dbo.discounts' as
'pubs2.dbo.discounts'
Defining table 'SQLSERVER_1.pubs2.dbo.new_tbl' as
'pubs2.dbo.new_tbl'
```

```
Defining table 'SQLSERVER_1.pubs2.dbo.publishers' as
'pubs2.dbo.publishers'
Defining table 'SQLSERVER_1.pubs2.dbo.roysched' as
'pubs2.dbo.roysched'
Defining table 'SQLSERVER_1.pubs2.dbo.sales' as 'pubs2.dbo.sales'
Defining table 'SQLSERVER_1.pubs2.dbo.salesdetail' as
'pubs2.dbo.salesdetail'
Defining table 'SQLSERVER_1.pubs2.dbo.stores' as
'pubs2.dbo.stores'
Defining table 'SQLSERVER_1.pubs2.dbo.titleauthor' as
'pubs2.dbo.titleauthor'
Defining table 'SQLSERVER_1.pubs2.dbo.titles' as
'pubs2.dbo.titles'
Defining table 'SQLSERVER_1.pubs2.dbo.titleview' as
'pubs2.dbo.titleview'
Migrating local tables ...
Binding rules to columns ...
Binding defaults to columns ...
Migrating views and triggers ...
Migrating procedures ...
Migrating permissions ...
Revoking column permissions on table 'dbo.titles' from 'fred'
Granting column permissions on table 'dbo.titles' to 'fred'
Server dropped.
Done.
```

