Alcatel-Lucent

IP MULTIMEDIA SUBSYSTEM RELEASE 09.03.00

SOLUTION EXTERNAL RELEASE NOTES

Contents

About this document

Purpose

The purpose of this document is to provide a general overview of the IP Multimedia Subsystem (IMS) Release 09.03.00 including a list of the network element load versions, IMS network level test results, and known issues to assist service providers with field deployments of IMS Release 09.03.00.

Reason for revision

This is the second issue of the IMS Release 09.03.00 Release Notes document. The following table shows the revision history:

Location	Revision	Issue number	Date of issue
Table 1-1	Added 5420 Personal Communication Manager (PCM) to load table	2	February 2011
Table 1-1	Updated 5420 SCG with correct load number	2	February 2011
Table 1-1	Updated 1357 ULIS with correct load number	2	February 2011

Intended audience

The intended audience for this document includes all personnel who need information about the IMS 09.03.00 release, its functions, and network elements.

This document can be used by the following audiences:

- Planning and design personnel
- Maintenance personnel
- Management personnel
- System installation and integration personnel

Supported systems

See Chapter 7, System Requirements, for information on systems supported in Release 09.03.00.

Conventions used

There are no special typographical conventions used in this document.

Technical support

For technical support, contact your local Alcatel-Lucent customer support team. See the Alcatel-Lucent Support web site (http://alcatel-lucent.com/support/) for contact information.

How to order

This document is available on the Online Customer Support Site (OLCS). To order this document and other Alcatel-Lucent documents, contact your local sales representative or use the OLCS web site (https://support.alcatel-lucent.com).

How to comment

To comment on this document, go to the Online Comment Form (http://infodoc.alcatel-lucent.com/comments) or e-mail your comments to the Comments Hotline (comments@alcatel-lucent.com).

1 Release components

Overview

Purpose

This chapter describes the software loads that comprise Release 09.03.00 and the documentation deliverables included in this release.

Software deliverables

Table 1-1 lists the loads that comprise Release 09.03.00. New or changed load names are shown in bold-face type.

Table 1-1 Software release identification

Network Element/Application	Load Name in IMS 09.03.00	Load Name in IMS 09.02.02	Load Changed Since IMS 09.02.02?
1300 Cross Management Center (XMC)	R7.0.5.3 Plus R7.0.5 IAP005	R7.0.5.3 Plus R7.0.5 IAP005	No
1310 Operations and Maintenance Center – Plus (OMC-P)	**15.1.1.0**	15.0.0.2	**Yes**
1357 Unified Lawful Intercept Suite (ULIS) Lawful Interception Gateway (LIG)	**R12.5.2 ed06**	R12.5.2 ed05	**Yes**
1540 Litespan	R3.2.60	R3.2.60	No
5020 Media Gateway Controller – 8 (MGC-8)	**R8.1.0.1**	R8.0.1.3	**Yes**
5060 Media Gateway Controller – 8 (ATCA)	**R8.1.0.1**	R8.0.1.3	**Yes**
5100 Converged Messaging System (CMS)	**CMS-R11**	CMS-10SU4.3 (1000.40.3.15)	**Yes**
5410 Presence Server (PS)/ XML Document Management Server (XDMS)	**5350 mCAS IAS 2.0.2 5. 1 SP2.1**	5350 mCAS IAS 2.0.1 5.1 SP1.1	**Yes**
5420 Converged Telephony Server (CTS)	**R22.20.01 Plus patch R22.20.01.04**	R22.14.01.08	**Yes**
5420 Personal Communication Manager (PCM)	**PCM 7.1.1**	PCM 7.1.0.50	**Yes**
5420 Service Continuity Gateway (SCG)	R22.14.01.08	R22.14.01.08	No
Co-Resident 5410 PS/XDMS and 5430 Multimedia Instant Messaging (MMIM)	5350 mCAS IAS 2.0.2 5.1 SP2.1	MMIM/Ps/Xdms R5.1 CoRes ED 09152010::5350 mCAS IAS 2.0.1	No
5450 IP Session Control (ISC)	**R22.20.01 Plus patch R22.20.01.04**	R22.14.01.08	**Yes**
5750 Subscriber Services Controller (SSC) (for Connectivity Location Function (CLF) and Dynamic Host Configuration Protocol (DHCP) only)	SSC R3.3 R2 + patch	SSC R3.3 R2 + patch	No
5900 Media Resource Function (MRF)	**MRF 7.1.0 + unitary patch 26184**	MRF 7.1.0	**Yes**
5900 Personalized Ring Back Tone (PRBT) CMS	CDS-IP R3.0 CMS R3.1.3	CDS-IP R3.0 CMS R3.1.3	No
7302 Intelligent Services Access Manager (ISAM)-V/7330 Intelligent Service Access Manager (ISAM) Fiber to the Node (FTTN)	R4.1.0.2.406	R4.1.0.2.406	No
7302 ISAM/7330 ISAM FTTN	OLT R4.0.10 ONT R4.0.40	OLT R4.0.10 ONT R4.0.40	No

Network Element/Application	Load Name in IMS 09.03.00	Load Name in IMS 09.02.02	Load Changed Since IMS 09.02.02?
7510 Media Gateway (MGW)	**7510.R331.B06.S1.01.03**	7510.R331.B03b.S0.01.01	**Yes**
7515 Media Gateway (MGW)	7515m2.4B0120	7515m2.4B0120	No
7515 SIP-MGW	7515R31S B0110	7515R31S B0110	No
7520 Media Gateway (MGW)	**R8.1.0.1**	R8.0.1.3	**Yes**
7750 Service Router	7750_R7.0_R6	7750_R7.0_R6	No
8610 Instant Convergent Charging (ICC)	ICC R5.1	ICC R5.1	No
8615 Instant enhanced Charging Collection Function (IeCCF) (T2000, 5440)	**MAS R28SU2 patch215 IeCCF 28.1hotslide0104**	MAS R28SU2 patch209 IeCCF 28.1hotslide0103	**Yes**
8650 Subscriber Data Manager (SDM) (HSS on ATCA)	8650 SDM R3.0 IAP001+Alert 10-1435	8650 SDM R3.0 IAP001+Alert 10-1218	No
8660 My TeamWork	ACS8.1 MR2	ACS8.1 MR2	No
8920 Service Quality Manager (SQM)	R3.7.6.10	R3.7.6.10	No
8950 Services Activation Manager (SAM) (Sun/Linux Platform)	R17.0.1.5	R17.0.1.5	No
8965 C3S	4.5.4.1	4.5.4.1	No
Acme Packet Session Director (4500)	Cx6.1.0m2p4	Cx6.1.0m2p4	No
Billing and Traffic System (BTS)	**BTS_8-1-0-0-32**	BTS_8-1-0-0-28	**Yes**
Cellpipe	6VeA2100 firmware V1.4.0.13AEG	6VeA2100 firmware V1.4.0.13AEG	No
Comneon RCS Client	WM 05.01.03-02	WM 05.01.03-02	No
Genesys SIP Server	SIP Server 8.0.400.32 Genesys Voice Platform (GVP) 8.1.3: GVP components: Media control platform (Media server): 8.1.301.18, Resource Manager: 8.1.301.09, Call control platform: 8.1.301.09	SIP Server 8.0.400.32 Genesys Voice Platform (GVP) 8.1.3: GVP components: Media control platform (Media server): 8.1.301.18, Resource Manager: 8.1.301.09, Call control platform: 8.1.301.09	No
Movial	**8.1.12**	817-741	**Yes**
OmniAccess 8550 Web Services Gateway (WSG)	R3.2.9056	Not Applicable	No
OXE OmniPCX Enterprise	R9.1 version I1.605.13	R9.1 version I1.605.13	No
VitalQIP® and VitalQIP® ENUM Manager	VitalQIP R7.2 PR1 DNS R4.2 (BIND 9.5.1-P3) ENUM R1.3	VitalQIP R7.2 PR1 DNS R4.2 (BIND 9.5.1-P3) ENUM R1.3	No

How to obtain software

Please contact your Alcatel-Lucent representative to obtain software.

Document deliverables

Table 1-2 shows the solution documentation available for IMS Release 09.03.00.

Table 1-2 IMS 09.03.00 solution documentation

Title	Ordering number
IMS Release 09.03.00 Solution Technical Description	275-100-000R09.03.00
IMS Release 09.03.00 Solution Operations, Administration, & Maintenance	275-100-001R09.03.00
IMS Release 09.03.00 Solution Release Notes	275-100-004R09.03.00
IMS Release 09.03.00 Software Upgrade	275-100-035R09.03.00
IMS Release 09.03.00 Interface Changes Specifications	275-100-050R09.03.00
IMS Release 09.03.00 Solution System Parameters	275-100-057R09.03.00
IMS Release 09.03.00 Solution Ports and Protocols	275-100-058R09.03.00
IMS Release 09.03.00 Solution Growth	275-100-059R09.03.00
IMS Release 09.03.00 Solution Provisioning	275-100-060R09.03.00
IMS 09.03.00 and ICS 02.01.01 Feature Planning Guide	275-100-102R09.03.00

See the next section, "To obtain documentation", for detailed information on how to obtain IMS Solution documentation.

To obtain documentation

IMS Solution and product documentation is available to IMS Solution customers through OnLine Customer Support (OLCS).

To obtain IMS Solution documentation, do the following:

1. Go to https://services.support.alcatel-lucent.com/services/ims/
2. After a successful login, select **Solution Level Manuals and Guides** (for manuals and guides) or **Solution Level Release Information** (for release notes documents) under IMS Solution Level Documentation. (You can refine your search by selecting the release number in the Release pull-down menu.)

To obtain product documentation, do the following:

3. Go to https://services.support.alcatel-lucent.com/services/ims/

4. After a successful login, select a network element from the **Links to network elements in the IMS Solution** section or use the pull-down in the upper-right corner and select Documentation to get to the Product Index.

2   New features

Overview

Purpose

This chapter lists the features included in Release 09.03.00.

New features

The following features are included in this release:

Table 2-1 Features released in IMS 09.03.00

Feature Number	Feature Title
33333.386	ALU access border solution testing – IMS 9.2
33333.442	IMS Solution IPv6 support in IMS9.3
33333.458	IMS solution testing for new functional features of PS/XDMS 5.1
33333.467	IMS Solution 9.3 software upgrade transitions

Functionality

See the specific NE documentation for configuration information.

Enhancements

There are no enhancements in this release other than the features.

3   Test results

Overview

Purpose

This chapter provides information on test execution and pass rates.

Test results/exit criteria

The following table shows the results of the IMS 09.03.00 test program. See Table 6-1 for exceptions.

Table 3-1 NLT test results

Solution	Progress Rate	Quality (Pass Rate)	Exit Criteria Status (Reached/Not Reached)
IMS 09.03.00 Solution Test	100%	97.0%	Reached

4   Changes to fault management, ports, protocols, and parameters

Overview

Purpose

This chapter describes fault management changes (interfaces, alarms, and messages), port and protocol, and system parameter changes between Release 09.02.02 and this release.

Interface changes

Changes to Northbound Interfaces

The following document describes the Northbound interface changes for the 5420 CTS:

- *Alcatel-Lucent 5420 Converged Telephony Server (CTS) Release 7.1, & 7.1.2 Application User's Guide*, 275-900-366R7.1.2 (See Part VI, Chapter 15)

The following document describes the Northbound interface changes for the 7520 MGW:

- *Alcatel-Lucent Gateway Platform Software Release Notes for 5020 MGC-8, 5025 VSG, 5060 MGC-8/VSG, and 7520 MGW*, 255-400-006R8.1.0.1 (See Chapter 4)

The following document describes the Northbound interface changes for the BTS:

- *Alcatel-Lucent Gateway Platform Release 8.1.0.0.32 Billing and Traffic System (BTS) Release Notes*, 255-400-404R8.1.0.0.32 (See Appendix A)

You can also refer to the following solution-level document for additional information about interface changes for IMS 09.03.00 Network Elements:

- *IP Multimedia Subsystem Release 09.03.00 Solution Interface Changes Specifications*, 275-100-050R09.03.00

Changes to Southbound Interfaces

Please consult the NE-specific documentation for southbound interface changes in this release.

Alarm changes

There are no changes to report in this release. Please consult the NE-specific documentation for alarm changes in this release.

You can also refer to the following solution-level document for additional information about alarm changes for IMS 09.03.00 Network Elements:

- *IP Multimedia Subsystem Release 09.03.00 Solution Interface Changes Specifications*, 275-100-050R09.03.00

Message changes

There are no changes to report in this release. Please consult the NE-specific documentation for new messages or changes to messages in this release.

Port changes

The following document describes the port changes for the 5450 ISC:

- *Alcatel-Lucent Control Platform 1800/5400 IMS 9.2 – 9.3 Alarm, Performance Measurement and MIB Release Differences, 270-900-878R20.1.1*

The following document describes the port changes for the 7520 MGW:

- *Alcatel-Lucent Gateway Platform Release 8.1.0 Maintenance and Diagnostic Procedures Guide*, 255-400-001R8.1.0 (See Appendix A)

You can also refer to the following solution-level document for additional information about port changes for IMS 09.03.00 Network Elements:

- *IP Multimedia Subsystem (IMS) Release 09.03.00 Solution Ports and Protocols,* 275-100-058R09.03.00

Protocol changes

The following document describes the protocol changes for the 5450 ISC:

- *Alcatel-Lucent Control Platform 1800/5400 IMS 9.2 – 9.3 Alarm, Performance Measurement and MIB Release Differences, 270-900-878R20.1.1*

You can also refer to the following solution-level document for additional information about protocol changes for IMS 09.03.00 Network Elements:

- *IP Multimedia Subsystem (IMS) Release 09.03.00 Solution Ports and Protocols,* 275-100-058R09.03.00

System parameter changes

The following document describes the system parameter changes for the 5420 CTS:

- *Alcatel-Lucent 5420 Converged Telephony System (CTS) Release 7.1.1 & 7.1.2 Application User Guide*, 275-900-366R7.1.2 (See Part I, Chapter 4)

The following document describes the system parameter changes for the 5450 ISC:

- *Alcatel-Lucent Control Platform 1800/5400 IMS 9.2 – 9.3 Alarm, Performance Measurement and MIB Release Differences, 270-900-878R20.1.1*

You can also refer to the following solution-level document for additional information about system parameter changes for IMS 09.03.00 Network Elements:

- *IP Multimedia Subsystem (IMS) Release 09.03.00 Solution System Parameters*, 275-100-057R09.02.00

5   Resolved issues

Overview

Purpose

This chapter describes customer-reported ARs and NLT-reported problems resolved in this release. Since this is the first release of IMS 09.03.00, this chapter does not apply.

Resolved issues

This section would list resolved issues that were previously reported as *Known Issues* in Chapter 6. Table 5-1 would list the severity 1 and 2 issues that were resolved in the loads that are part of this release. Since this is the first release of IMS 09.03.00, there are no resolved issues.

Table 5-1 NLT-Reported severity 1 and 2 open issues - resolved

NE to Lead	Resolve Rls	Fixed in Load	Current Status	Solution(s)	Exception Description
None					

6   Known issues

Overview

Purpose

This chapter describes NLT-reported issues that remain open in Release 09.03.00.

Known issues and workarounds

Table 6-1 lists the severity 2 issues that were not resolved in the network element loads that are part of this release.

Table 6-1 NLT-reported severity 2 open issues from IMS 09.03.00

NE to Lead	Resolve Rls	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
OMC-P	IMS 9.3 DR5	targeted R15.1.2.0	Identified	core	Not able to add/delete/modify the external domain routing table on OMC-P	The customer should use the FSGUI instead for adding/deleting/modifying the external domain routing table
PS XDMS	IMS 9.3 DR5	Under Investigation	Under investigation	app	Re-generation of presence subscription: Subscription is terminated	With specific conditions, a subscription agreement could not be seen by the originator

7   System requirements

Overview

Purpose

This chapter describes software dependencies, hardware requirements, and compatibility restrictions.

Software requirements

IMS GUIs JAVA Dependency

Follow the steps listed below to install multiple Java based GUIs on a single PC

1. Minimum platform: Windows XP SP2 with 2GB RAM and Internet Explorer 7

2. Close all internet browser windows

3. Remove all JREs from the PC

4. Load Java 1.5.0.21 of the JRE 1.5 family

5. Load Java 1.6.0.20 of the JRE 1.6 family

6. Use all default settings for the internet browser and Java control panel

7. Set the Network Settings on the General Tab of the Java Control Panel to Direct Connection

8. Verify from the Java Control Panel that both JREs, 1.5 and 1.6, are enabled

9. If the PC is not using a local DNS:

    i.   Update the PC flat file C:\WINDOWS\system32\drivers\etc\hosts with the IP address and server name associated with each GUI

    ii. Otherwise, if the PC is using a local DNS:

iii. Update the DNS Server with the IP address and server name associated with each GUI.

10. Load the GUIs in any order:
    - 8950 SAM GUI
    - 1310 OMC-P GUI
    - 1300 XMC GUI
    - 5420 CTS, 5420 SCG, 5450 ISC – LCP FSGUI and MIGUI
    - 8650 SDM HSS GUI
    - VitalQIP GUI
    - 5900 MRF GUI
    - 5420 PCM GUI (no GUI)

11. For Internet Browser GUIs, start each GUI in a separate Internet Explorer so the appropriate JRE is loaded. When installing the XMC GUI, select <u>Accept</u> for the certificate.

SUN Operating System Patch Level for Non-Integrated Components

Table 7-1 shows the SUN OS patch level for non-integrated components.

Table 7-1 SUN OS system patch level for non-integrated components

Network Element	OS Level
VitalQIP Enterprise	Solaris 10 Generic_127111-09
VitalQIP DNS	Solaris 10 Generic_127111-09
1310 OMC-P	Solaris 10 Generic_127111-09
BTS	Solaris 10 Generic_127111-09

Software licensing keys

There are no changes to software licensing keys in this release. See the specific NE documentation for more information.

Hardware requirements

Specific hardware requirements are addressed by the network element level release notes and documentation.

Compatibility restrictions

Backward compatibility is supported for the IMS solution software upgrade sequence from IMS 09.02.02 to IMS 09.03.00. See the *Alcatel-Lucent Internet Protocol Multimedia Subsystem (IMS) Solution 09.03.00 Software Upgrade* document, 275-100-035R09.03.00, and specific NE documentation for more information. The specific upgrade path must be provided by each NE.

8 Installation and upgrade notes

Overview

Purpose

This chapter provides information on installation, upgrade procedures and security hardening.

Performing first-time installation

Contact your Alcatel-Lucent representative for first-time installation assistance.

Performing upgrades

The following solution-level document describes the recommended installation and upgrade sequence for the IMS network elements:

- *Alcatel-Lucent Internet Protocol Multimedia Subsystem (IMS) Solution 09.03.00 Software Upgrade* 275-100-035R09.03.00

Refer to the NE documentation for specific software upgrade information.

Upgrade paths

Upgrade to IMS 09.03.00 is supported from IMS 09.02.02. Network Elements may require multiple transitions to go from IMS 09.02.02 to IMS 09.03.00; refer to the specific NE documentation for further details.

Security hardening

Security hardening procedures and information for IMS Release 09.03.00 NEs are available on OLCS.

To obtain IMS security hardening procedures, do the following:

1. Go to: https://services.support.alcatel-lucent.com/services/ims/,

2. After a successful login, select **Security Hardening Releases**

3. Then select **Security Hardening IMS Release 09.03.00**

From this page, you can click on each NE for security hardening details.

Feature activation

Feature activation is done at the NE-level. Please consult with your Alcatel-Lucent customer support team for more information.

Obtaining and installing third-party software

Contact your Alcatel-Lucent customer support team for more information.

Acronym List

A

AGCF

Access Gateway Control Function

ATCA

Advanced Telecommunications Computing Architecture

AR

Action Register

ASR

Application Server Runtime

B

BTS

Billing and Traffic System

C

CLF

Connectivity Location Function

CMS

Converged Messaging System

CTS

Converged Telephony Server

CVoIP

Consumer Voice over IP

D

DHCP

Dynamic Host Configuration Protocol

DNS

Domain Name System

E

ENUM

tElephone Numbering Mapping

F

FTTN

Fiber To The Node

G

GUI

Graphical User Interface

I

IAS

IMS Application Server

ICC

Instant Convergent Charging

IeCCF

Instant enhanced Charging Collection Function

IMS

IP Multimedia System

ISAM

Intelligent Services Access Manager

ISC

IP Session Controller

L

LIG

Lawful Interception Gateway

M

mCAS

modular Converged Application Server

MAS

MiLife® Application Server

MGC

Media Gateway Controller

MGW

Media Gateway

MMIM

Multimedia Instant Messaging

MRF

Media Resource Function

N

NE

Network Element

NLT

Network Level Test

O

OAM

Operations, Administration, Maintenance

OLCS

OnLine Customer Support

OMC-P

Operations and Maintenance Center - Plus

P

PCM

Personal Communication Manager

PRBT

Personalized Ring Back Tone

PS

Presence Server

S

SAM

Services Activation Manager

SCG

Service Continuity Gateway

SDM
Subscriber Data Manager

SQM
Service Quality Manager

SSC
Subscriber Services Controller

U

ULIS
Unified Lawful Intercept Suite

V

VoIP
Voice over Internet Protocol

W

WSG
Web Services Gateway

X

XDMS
XML Document Management Server

XMC
Cross-domain Management Center