Alcatel-Lucent

IP MULTIMEDIA SUBSYSTEM RELEASE 09.02.00

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 09.02.00 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 09.02.00.

Reason for revision

This is the first issue of the IMS Release 09.02.00 Release Notes document.

Intended audience

The intended audience for this document includes all personnel who need information about the IMS 09.02.00 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 09.02.00.

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

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1 Release components

Overview

Purpose

This chapter describes the software loads that comprise Release 09.02.00 and the documentation deliverables included in this release.

Software deliverables

Table 1-1 lists the loads that comprise Release 09.02.00. New or changed load names are shown in bold-face type.

Table 1-1 Software release identification

Network Element/Application	Load Name in IMS 09.02.00	Load Name in IMS 09.00.01	Load Changed Since IMS 09.00.01?
1300 Cross Management Center (XMC)	**R7.0.5.2**	R7.0.5.1	**Yes**
1310 Operations and Maintenance Center – Plus (OMC-P)	**15.0.0.2**	OMC-P14_03_01_02	**Yes**
1357 Unified Lawful Intercept Suite (ULIS) Lawful Interception Gateway (LIG)	**R12.5.2 ed03**	R12.5.1 ed. 2	**Yes**
1540 Litespan	**R3.2.52**	R3.2.50	**Yes**
5020 Media Gateway Controller – 8 (MGC-8)	**R8.0.1.3**	LGP-7-1-0-1	**Yes**
5060 Media Gateway Controller – 8 (ATCA)	**R8.0.1.3**	Not Applicable	**New**
5100 Converged Messaging System (CMS)	**CMS-10SU4.3 (1000.40.3.15)**	CMS-10SU4 build 4 (1000.40.1.4)	**Yes**
5410 Presence Server (PS)/ XML Document Management Server (XDMS)[1]	**5.1 SP1.1::5350 mCAS IAS 2.0.1**	See Note 1	**See Note 1**
5420 Converged Telephony Server (CTS)	**R22.14.01 R22.14.01.05**	R20.60.01 Plus R20.60.01.05	**Yes**
5420 Personal Communication Manager (PCM)	**PCM 7.1.0.50**	PCM7.0.0.142	**Yes**
5420 Service Continuity Gateway (SCG)	**R22.14.01 R22.14.01.05**	R20.60.01 Plus R20.60.01.05	**Yes**
Co-Resident 5410 PS/XDMS and 5430 Multimedia Instant Messaging (MMIM)	**MMIM/Ps/Xdms R5.1 CoRes ED 09152010::5350 mCAS IAS 2.0.1**	Not Applicable	**New**
5450 IP Session Control (ISC)	**R22.14.01 R22.14.01.05**	R20.60.01 Plus R20.60.01.05	**Yes**
5750 Subscriber Services Controller (SSC)	SSC R3.3_R2	SSC R3.3_R2	No
5900 Media Resource Function (MRF)	**MRF7.1.0**	MRF7.0.7	**Yes**
5900 Personalized Ring Back Tone (PRBT)	R3.0	R3.0	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

[1] Loads 5.0 SP3.1 HP and 5350 IAS 3.4 SP3.5 HP were tested as part of IMS 08.04.01.

Network Element/Application	Load Name in IMS 09.02.00	Load Name in IMS 09.00.01	Load Changed Since IMS 09.00.01?
7510 Media Gateway (MGW)	**7510.R331.B01.S0.01.01 7510.R331.B03.S0.01.02**	7510_R322_03_19_2010_B01d	**Yes**
7515 Media Gateway (MGW)	**7515m2.4B0120**	Not Applicable	**New**
7515 SIP-MGW	7515R31S B0110	7515R31S B0110	No
7520 Media Gateway (MGW)	**R8.0.1.3**	LGP-7-1-0-1	**Yes**
7750 Service Router	7750_R7.0_R6	7750_R7.0_R6	No
8610 Instant Convergent Charging (ICC)	ICCR462MD02	ICCR462MD02	No
8615 Instant enhanced Charging Collection Function (IeCCF) (T2000, 5440)	**IeCCF 28.1::MAS R28SU2 patch0206** **IeCCF 28.1 hotslide0101::MAS R28SU2 patch209**	IeCCF r28.0 :: MAS R28SU1 patch0105 Note: no SU to r28.0, must be a new install IeCCF 28.0.1:: MAS R28SU1 patch 0108	**Yes**
8650 Subscriber Data Manager (SDM) (HSS on ATCA)	**8650 SDM R3.0**	8650 SDM R2.1 SU1 IAP002	**Yes**
8660 My TeamWork	**Available at Solution General Availability**	V8.1.0.5121	**New**
8920 Service Quality Manager (SQM)	**Available at Solution General Availability**	R7.6.6B	**New**
8950 Services Activation Manager (SAM)	**Available at Solution General Availability**	R17.0.B12	**New**
Acme Packet Session Director (4500)	**Cx6.1.0m2p4**	Not Applicable	**New**
Billing and Traffic System (BTS)	**BTS_8.0.1.0.13**	BTS_7.1.0.0.27	**Yes**
Cellpipe	**6VeA2100 firmware V1.4.0.13AEG**	Not Applicable	**New**
Comneon RCS Client	**WM 05.01.03-02**	Not Applicable	**New**
Genesys SIP Server	**Available at Solution General Availability**	R8.0.3.00.44	**Yes**
Movial	**817-394**	Not Applicable	**New**
OXE OmniPCX Enterprise	R9.1 version I1.605.13	R9.1 version I1.605.13	No
VitalQIP® 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 09.02.00.

Table 1-2 IMS 09.02.00 solution documentation

Title	Ordering number
IMS Release 09.02.00 Solution Technical Description	275-100-000R09.02.00
IMS Release 09.02.00 Solution Operations, Administration, & Maintenance	275-100-001R09.02.00
IMS Release 09.02.00 Solution Release Notes	275-100-004R09.02.00
IMS Release 09.02.00 Software Upgrade	275-100-035R09.02.00
IMS Release 09.02.00 Interface Changes Specifications	275-100-050R09.02.00
IMS Release 09.02.00 Solution System Parameters	275-100-057R09.02.00
IMS Release 09.02.00 Solution Ports and Protocols	275-100-058R09.02.00
IMS Release 09.02.00 Solution Growth	275-100-059R09.02.00
IMS Release 09.02.00 Solution Provisioning	275-100-060R09.02.00
IMS 09.02.00 and ICS 02.01.00 Feature Planning Guide (available in mid-October)	275-100-102R09.02.00

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 and software upgrade documents) under IMS Solution Level Documentation.

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 09.02.00.

New features

The following features are included in this release:

Table 2-1 Features released in IMS 09.02.00

Feature Number	Feature Title
11111.20[2]	IMS Entry testing for 7510 integrated firewall
22222.2	IMS Simplification for Flexible Line-up: SDM chassis kit
33333.247	Common HP based platform for 5410 PS/XDMS 5.1,5430 MMIM 5.1 in IMS 9.2
33333.385	Extend 5430 MMIM server 5.1 testing in IMS 9.2
33333.394	Lawful Intercept support on the P-CSCF & 7510 BGF
33333.399	IMS Software Upgrade from IMS 9.0 to IMS 9.2 using automation in a single step upgrade for each IMS NE
33333.405	POTS: Transfer only allowed when at least one far party is an originator
33333.414	CTS Centralised Service Database (CSDB): Introduction of Notify-Eff feature on Sh
33333.438	IMS Solution: SIP Business Trunking Enhancements for IMS 9.2
33333.449	NLT Performing Pairwise Testing of the IeCCF 28.1 NE load
33333.456	Standalone PS-XDMS testing for IMS 9.2
33333.459	OMC-P CSDB Data evolution via Upsynch

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[2] For information about SigmaLink firewall functionality, please contact your Alcatel-Lucent representative.

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 09.02.00 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 09.02.00 Solution Test	100%	98.3%	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 09.00.00 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 Application User's Guide,* 275-900-366R7.1 (See Part VI, Chapter 16)

The following documents describe the Northbound interface changes for the 5420 PCM:

- *Alcatel-Lucent 5420 Personal Communication Manager R7.1 API Guide*, 270-713-060R7.1

- *Alcatel-Lucent 5420 Personal Communication Manager R7.1 Release Notes,* 270-491-004R7.1 (See Chapter 4)

The following document describes the Northbound interface changes for the 5450 ISC:

- *Alcatel-Lucent Control Platform 1800/1000/5400 Charging Interface Specification,* 275-900-393R20.1 (See Chapter 5)

The following documents describe the Northbound interface changes for the 5900 MRF:

- *MRF Statistics Dictionary,* 3AT34450ABAHDTZZA

- *MRF Alarms Dictionary,* 3AT34450ABAGDTZZA

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,* 255-400-006R8.0.1.3 (See Chapter 4)

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

- *Alcatel-Lucent Gateway Platform Release 8.0.1.0.13 Billing and Traffic System (BTS) Release Notes,* 255-400-404R8.0.1.0.13 (See Appendix A)

The following document describes the Northbound interface changes for the 8615 IeCCF:

- *8615 Instant Enhanced Charging Collection Function (IeCCF) 28.1 Offline Charging Interface Specification,* 270-725-059R28.1

The following document describes the Northbound interface changes for the 8650 SDM:

- *Delta Observation Counters, Ganglia Counters, Alarms and Spontaneous Messages between 8650 SDM 2.1 SU1 & 8650 SDM 3.0,* 3BL97933DAAAPCZZA

You can also refer to the following solution-level document for additional information about interface changes for IMS 09.02.00 Network Elements:

- *IP Multimedia Subsystem Release 09.02.00 Solution Interface Changes Specifications*, 275-100-050R09.02.00

Changes to Southbound Interfaces

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

Alarm changes

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 09.02.00 Network Elements:

- *IP Multimedia Subsystem Release 09.02.00 Solution Interface Changes Specifications*, 275-100-050R09.02.00

Message changes

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 1357 ULIS:

- *1357 FIREWALL RULES – REL12 (Excel Tool)*, 3BW37716LAAEQDZZA Ed. 05 (found under Downloads→ Electronic Delivery → Tools and 1357 ULIS_Firewall-Rules)

The following document describes the port changes for the 5420 PCM:

- *Alcatel-Lucent 5420 Personal Communication Manager Release 7.1 Administration Guide*, 255-491-001R7.1 (See Chapter 4)

The following document describes the port changes for the 5420 SCG:

- *1310 OMC-P for Linux Control Platform Application User Guide for Managing the 5420 CTS, the 5450 ISC, and the 5450 SCG*, 255-400-420R15.0 (See Chapter 11)

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

- *Alcatel-Lucent Control Platform 1800/5400 IMS 9.0 – 9.2 Alarm, Performance Measurement and MIB Release Differences, 270-900-878R20.1*

The following document describes the port changes for the 5900 MRF:

- *IP Multimedia Subsystem (IMS) Release 09.02.00 Solution Ports and Protocols*, 275-100-058R09.02.00

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

- *Alcatel-Lucent Gateway Platform Release 8.0.1 Maintenance and Diagnostic Procedures Guide*, 255-400-001R8.0.1 (See Appendix A)

The following document describes the port changes for the 8615 IeCCF:

- *8615 Instant Enhanced Charging Collection Function (IeCCF) 28.1 Operations, Administration, and Maintenance, 270-725-058R28.1*

The following document describes the port changes for the 8650 SDM:

- *Delta Port-Protocol Between 8650 SDM 2.1 SU1 & 8650 SDM 3.0,* 3BL97600DAAADSZZA

You can also refer to the following solution-level document for additional information about port changes for IMS 09.02.00 Network Elements:

- *IP Multimedia Subsystem (IMS) Release 09.02.00 Solution Ports and Protocols,* 275-100-058R09.02.00

Protocol changes

The following document describes the protocol changes for the 1357 ULIS:

- *1357 FIREWALL RULES – REL12 (Excel Tool),* 3BW37716LAARQDZZA Ed. 05 (found under Downloads→ Electronic Delivery → Tools and 1357 ULIS_Firewall-Rules)

The following document describes the protocol changes for the 5420 PCM:

- *Alcatel-Lucent 5420 Personal Communication Manager Release 7.1 Administration Guide,* 255-491-002R7.1 (See Chapter 4)

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

- *Alcatel-Lucent Control Platform 1800/5400 IMS 9.0 – 9.2 Alarm, Performance Measurement and MIB Release Differences, 270-900-878R20.1*

The following document describes the protocol changes for the 5900 MRF:

- *IP Multimedia Subsystem (IMS) Release 09.02.00 Solution Ports and Protocols*, 275-100-058R09.02.00

The following document describes the protocol changes for the 8615 IeCCF:

- *8615 Instant Enhanced Charging Collection Function (IeCCF) 28.1 Offline Charging Interface Specification, 270-725-059R28.1*

The following document describes the protocol changes for the 8650 SDM:

- *Delta Port-Protocol Between 8650 SDM 2.1 SU1 & 8650 SDM 3.0,* 3BL97600DAAADSZZA

You can also refer to the following solution-level document for additional information about protocol changes for IMS 09.02.00 Network Elements:

- *IP Multimedia Subsystem (IMS) Release 09.02.00 Solution Ports and Protocols,* 275-100-058R09.02.00

System parameter changes

The following document describes the system parameter changes for the 1310 OMC-P:

- *Alcatel-Lucent 1310 OMC-P Release Software Release Notes for 5020 MGC-8, 5025 VSG, 5060 MGC-8/VSG, and 7520 MGW*, 255-400-006R8.0.1.3 (See About this document and Chapters 11, 13, 14)

The following document describes the system parameter changes for the 1357 ULIS:

- *1357 System Parameters,* 3BW95720LEABASZZA Ed. 01

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

- *Alcatel-Lucent 5420 Converged Telephony System (CTS) Release 7.1 Application User Guide*, 275-900-366R7.1 (See Part I, Chapter 5)

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

- *Alcatel-Lucent 5420 Personal Communication Manager Release 7.1 Administration Guide,* 255-491-002R7.1 (See Chapters 4 and 12)

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

- *1310 OMC-P for Linux Control Platform Application User Guide for Managing the 5420 CTS, the 5450 ISC, and the 5450 SCG*, 255-400-420R15.0 (See Chapter 11)

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

- *Alcatel-Lucent Control Platform 1800/5400 IMS 9.0 – 9.2 Alarm, Performance Measurement and MIB Release Differences, 270-900-878R20.1*

The following document describes the system parameter changes for the 5900 MRF:

- *IP Multimedia Subsystem (IMS) Release 09.02.00 Solution System Parameters*, 275-100-057R09.02.00

The following document describes the system parameter changes for the 8615 IeCCF:

- *8615 Instant Enhanced Charging Collection Function (IeCCF) 28.1 Operations, Administration, and Maintenance,* 270-725-058R28.1

The following document describes the system parameter changes for the 8650 SDM:

- *Delta Parameters Between 8650 SDM 3.0 & 8650 SDM 2.1 SU1 IAP002,* 3BL97364DAAAPCZZA

You can also refer to the following solution-level document for additional information about system parameter changes for IMS 09.02.00 Network Elements:

- *IP Multimedia Subsystem (IMS) Release 09.02.00 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 09.02.00, 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 09.02.00, 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 09.02.00.

Known issues and workarounds

As of September 2010, no customer-reported ARs have been opened against this release.

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 09.02.00

NE to Lead	Resolve Rls	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
IeCCF	IMS 9.3	28.1 hotslide0102	Fix identified	cvoip_dsl	Interim ACR will be rejected	The Intermediate ACR message will be rejected if there are too many codecs in the message. Workaround: limit the number of codecs.
ISC	IMS 9.2.1 (General Availability)	Targeted for ISC 22.14.01.06	Under Investigation	bevoip	Terminating calls to pbx prset user fails with 484 Address Incomplete when SIP forking in the profile.	If the S-CSCF profile contains the SIP forking service, calls will not successfully terminate to a pbx user configured with PRSET. Workaround: Move PBX PRSET users to an S-CSCF that does not have SIP forking provisioned.
ISC	IMS 9.2.1 (General Availability)	Targeted for ISC 22.14.01.06	Fix identified	core	SV caused when a target is listed with two entries (sip and tel) in the LIDB.	LI is allowed, but the system will report a segmentation violation on the standby card if a target is listed with two entries (sip and tel) in the LIDB.
MGC-8	IMS 9.2.1 (General Availability)	MGC-8 8.0.1.3	Resolved	bevoip	Parameter modification is not allowed on trunk.	This issue will only apply to MGC8 that is performing a HUG from 7.1 to 8.0.1. A fix was mixed in the HUG code that results in an inability to update parameters on a SIP trunk. Workaround: 1) please first check non-ISUP trkgrp number on the switch: RTRV-TRKGRP; 2) dblogin to mysql to reset the scrPrflId for non-ISUP trkgrps: mysql>update tgp set scrPrflId=NULL where tgn=?; // ? represent non-ISUP trkgrp.
SDM	9.2.2 MRF	Fixed for SDM 3.0 IAP001	Under Investigation	core	SDM iLB Cx/Sh connections not available.	Cross-restore of Pilot blades is not supported until SDM3.0IAP002. If a pilot blade goes down, refer to the procedures provided in the *8650 SDM 3.0 Release Notes* to restore pilot. If not yet on SDM3.0, contact support to restore Pilot blade without a cross restore.

NE to Lead	Resolve Rls	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
PS/XDMS	9.2.2 Maintenance Release	mcas 2.0.2	Fix identified	apps	Overload alarm duration doesn't correspond to real overload duration.	Impacted service: Presence overload When applying overload to the presence during one hour and a half the overload alarm is cleared after 15 minutes which provides wrong information the operator on the real situation of its network.
PS/XDMS	9.2.2 Maintenance Release	mcas 2.0.2	Under Investigation	apps	Crash of non-pilot server due to full"/" partition.	Impacted service: Presence service Under investigation
PS/XDMS	9.2.2 Maintenance Release	mcas 2.0.2	Private patch delivered	apps	XCAP authentication fails sometimes due to bad nonce verification.	Impacted Service: Presence service When two requests arrive at the same milliseconds, then the two nonce values are not well treated and the authentication of a request fails. Workaround: disable the xcap authentication.
PS/XDMS	9.2.2 Maintenance Release	mcas 2.0.2	Under Investigation	apps	DDM memory leak on the active pilot server (that does not carry traffic).	Impacted service: Presence endurance and co-resident. At the nominal traffic load, both active and standby pilot servers are losing memory Workaround: a preventive maintenance procedure must be applied periodically which consists of restarting the standby admin card, waiting a few minutes and then switching over from active to standby. The impact on the traffic is very limited.
PS/XDMS	9.2.2 Maintenance Release	mcas 2.0.2	Under Investigation	apps	Cannot restart XDMSServerForPresence agent: corrupted cache.	Impacted service: Presence service After a full stop of the cluster (e.g., due to DDM issue), the XDMS agent does not restart. Workaround: apply DDM – see above

7   System requirements

Overview

Purpose

This chapter describes IMS GUI Java dependencies 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. Platform: Windows and Internet Explorer 7
2. Use all default settings for the internet browser and Java control panel
3. Remove all 1.5 and 1.6 JREs from the PC.
4. Load the latest version of the JRE 1.5 family - 1.5.0_22
5. Load the latest version of the JRE 1.6 family - 1.6.0_20.
6. Verify from the Java Control Panel that both JREs, 1.5 and 1.6, are enabled.
7. Load the GUIs in any order:
   - 8950 SAM GUI
   - 1310 OMC-P/1360 COM GUI
   - 1300 XMC GUI (see note below)
     - o If a local DNS is required, update the /etc/hosts file with the IP address of the XMC GUI before launching the GUI (depending on the system this file is found in WINDOWS/system32/drivers)
     - o When launching the XMC GUI, select Accept for the Certificate
   - 5420 CTS, 5420 SCG, 5450 ISC – LCP FSGUI and MIGUI

- 8650 SDM HSS GUI
- VitalQiP GUI
- 5900 MRF GUI
- PCM GUI (no GUI)

8. For Internet Browser GUIs, start each GUI in a separate Internet Explorer so the appropriate JRE is loaded.

Note: For IMS 09.02.00, there is an exception to the above procedure. The XMC GUI should not be launched on the same PC as the other GUIs in the procedure. It needs to be launched on a separate PC loaded with JRE 1.5.0_21 (not 1.5.0_22) and without JRE 1.6. This exception is targeted to be fixed in IMS 09.02.01.

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 09.00.00 to IMS 09.02.00. See the *Alcatel-Lucent Internet Protocol Multimedia Subsystem (IMS) Solution 09.02.00 Software Upgrade* document, 275-100-035R09.02.00, 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 09.20.00 Software Upgrade* 275-100-035R09.02.00

Refer to the NE documentation for specific software upgrade information.

Upgrade paths

Upgrade to IMS 09.02.00 is supported from IMS 09.00.00. Network Elements may require multiple transitions to go from IMS 09.00.00 to IMS 09.02.00; refer to the specific NE documentation for further details.

Security hardening

Security hardening procedures and information for IMS Release 09.02.00 NEs is available on OLCS at: https://services.support.lucent.com/services/. Click on IMS Solutions, then click on Security Hardening IMS Release 09.02.00. 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

B

BTS

Billing and Traffic System

C

CMS

Converged Messaging System

CTS

Converged Telephony Server

CVoIP

Consumer Voice over IP

D

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

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

X

XDMS

XML Document Management Server

XMC

Cross-domain Management Center