



# Alcatel-Lucent

IP MULTIMEDIA SUBSYSTEM RELEASE 09.00.01

SOLUTION EXTERNAL RELEASE NOTES

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# About this document



## Purpose

The purpose of this document is to provide a general overview of the IP Multimedia Subsystem (IMS) Release 09.00.01 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 09.00.01.

## Reason for revision

This is the first issue of the IMS Release 09.00.01 Release Notes document.

## Intended audience

The intended audience for this document includes all personnel who need information about the IMS 09.00.01 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 09.00.01.

## 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.

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## 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](mailto:comments@alcatel-lucent.com)).



# 1 Release components

## Overview

### Purpose

This chapter describes the software loads that comprise Release 09.00.01 and the documentation deliverables included in this release.

## Software deliverables

Table 1-1 lists the loads that comprise Release 09.00.01. New or changed load names are shown in bold-face type.

**Table 1-1 Software release identification**

Network Element/Application	Load Name in IMS 09.00.01	Load Name in IMS 09.00.00	Load Changed Since IMS 09.00.00?
<b>1300 Cross Management Center (XMC)</b>	<b>R7.0.5.1</b>	R7.0.0.4 Plus R7.0.0.4 IAP C01	Yes
<b>1310 Operations and Maintenance Center – Plus (OMC-P)</b>	<b>OMC-P14_03_01_02</b>	OMC-P_14_03_00	Yes
1357 Unified Lawful Intercept Suite (ULIS) Lawful Interception Gateway (LIG)	R12.5.1 ed. 2	R12.5.1 ed. 2	No
1440 Unified Subscriber Data Server (USDS) (Includes MAS/AHE)	1440_USDS_R8.0_RTS MAS: MAS R28 SU1 Patch (lmasR28-p0105)	1440_USDS_R8.0_RTS MAS: MAS R28 SU1 Patch (lmasR28-p0105)	No
1540 Litespan	R3.2.50	R3.2.50	No
5020 Media Gateway Controller – 8 (MGC-8)	LGP-7-1-0-0 LGP-7-1-0-1	LGP7-1-0-0 LGP-7-1-0-1	No
5100 Converged Messaging System (CMS)	CMS-10SU4 build 4 (1000.40.1.4)	CMS-10SU4 build 4 (1000.40.1.4)	No
<b>5420 Converged Telephony Server (CTS)</b>	<b>R20.60.01 Plus R20.60.01.05</b>	R20.17.01.00 R20.17.01.02	Yes
<b>5420 Personal Communication Manager (PCM)</b>	<b>PCM7.0.0.142</b>	PCM_7.0.0_GA_Build 130	Yes
<b>5420 Service Continuity Gateway (SCG)</b>	<b>R20.60.01 Plus R20.60.01.05</b>	R20.17.01.00 R20.17.01.02	Yes
5450 Access Gateway Control Function (AGCF)	AGCF5_1_3R1	AGCF5_1_3R1	No
<b>5450 IP Session Control (ISC)</b>	<b>R20.60.01 Plus R20.60.01.05</b>	R20.17.01.00 R20.17.01.02	Yes
<b>5750 Subscriber Services Controller (SSC)</b>	<b>SSC 3.1R3.3_R2</b>	SSC 3.1R5 and SAC/CLF 3.1R5	Yes
<b>5900 Media Resource Function (MRF)</b>	<b>MRF7.0.7</b>	MRF7.0.2	Yes
<b>5900 Personalized Ring Back Tone (PRBT)</b>	<b>R3.0</b>	Not Applicable	New
<b>7302/7330 Intelligent Services Access Manager (ISAM)-V</b>	<b>R4.1.0.2.406</b>	ISAM-V-R40 R 40.129  Plus R 4.0.0.a (load 40.132)	Yes

Network Element/Application	Load Name in IMS 09.00.01	Load Name in IMS 09.00.00	Load Changed Since IMS 09.00.00?
<b>7342 Intelligent Services Access Manager (ISAM) Fiber to the User (FTTU)</b>	<b>OLT Build: 4.6.8</b>	Not Applicable	<b>New</b>
<b>7510 Media Gateway (MGW)</b>	<b>7510_R3.2.2 (B01d)</b>	7510_R322_01_13_2010_B01	<b>Yes</b>
7515 SIP-MGW	7515R31S B0110	7515R31S B0110	No
7520 Media Gateway (MGW)	LGP-7-1-0-0 LGP-7-1-0-1	LGP7-1-0-0 LGP-7-1-0-1	No
7750 Service Router	7750_R7.0_R6	7750_R7.0_R6	No
8610 Instant Convergent Charging (ICC)	ICCR462MD02	ICCR462MD02	No
<b>8615 Instant enhanced Charging Collection Function (IeCCF)</b>	<b>N440 IeCCF 27.6 :: MAS R27SU6 patch0601  IeCCF 27.6 + MAS R27SU6 patch0601  IeCCF 27.6 hotslide0101  T2000, 5440 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</b>	<b>N440 IeCCF 27.6 :: MAS R27SU6 patch0601  IeCCF 27.6 + MAS R27SU6 patch0601  IeCCF 27.6 hotslide0101  T2000, 5440 IeCCF r28.0 :: MAS R28SU1 patch0105  Note: no SU to r28.0, must be a new install</b>	<b>Yes</b>
8650 Subscriber Data Manager (SDM) (HSS on ATCA)	8650 SDM R2.1 SU1 IAP002	8650 SDM R2.1 SU1 IAP002	No
<b>8660 My TeamWork</b>	<b>V8.1.0.5121</b>	Not Applicable	<b>New</b>
<b>8920 Service Quality Manager (SQM)</b>	<b>R7.6.6B</b>	Not Applicable	<b>New</b>
<b>8950 Services Activation Manager (SAM)</b>	<b>R17.0.B12</b>	Not Applicable	<b>Yes</b>
<b>Billing and Traffic System (BTS)</b>	<b>BTS_7.1.0.0.27</b>	BTS_7.1.0.0.19	<b>Yes</b>
enhanced Service Manager (eSM) (check w Glenn re Ref Arch)	eSM R27 SU4_PA (R27SU4 P4.1)	eSM R27 SU4_PA (R27SU4 P4.1)	No
Fortinet Fortigate Firewall	FGT_5005FA2-v300-build8143-mr5	FGT_5005FA2-v300-build8143-mr5	No
Gateway Platform  Includes: - 5020 MGC-8 - 7520 MGW	LGP-7-1-0-0 LGP-7-1-0-1	LGP-7-1-0-0 LGP-7-1-0-1	No
<b>Genesys SIP Server</b>	<b>R8.0.3.00.44</b>	Not Applicable	<b>New</b>
OXE OmniPCX Enterprise	R9.1 version II.605.13	R9.1 version II.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

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## 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 09.00.01.

**Table 1-2 IMS 09.00.01 solution documentation**

<b>Title</b>	<b>Ordering number</b>
<i>IMS Release 09.00.00 Solution Technical Description</i>	275-100-000R09.00.00
<i>IMS Release 09.00.00 Solution Operations, Administration, &amp; Maintenance</i>	275-100-001R09.00.00
<i>IMS Release 09.00.01 Solution Release Notes</i>	275-100-004R09.00.01
<i>IMS Release 09.00.00 Software Upgrade</i>	275-100-035R09.00.00
<i>IMS Release 09.00.00 Interface Changes Specifications</i>	275-100-050R09.00.00
<i>IMS Release 09.00.00 Solution System Parameters</i>	275-100-057R09.00.00
<i>IMS Release 09.00.00 Solution Ports and Protocols</i>	275-100-058R09.00.00
<i>IMS Release 09.00.00 Solution Growth</i>	275-100-059R09.00.00
<i>IMS Release 09.00.00 Solution Provisioning</i>	275-100-060R09.00.00

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/>).

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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:

1. Go to (<https://services.support.alcatel-lucent.com/services/ims/>).
2. 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 09.00.01.

## New features

The following features are included in this release:

**Table 2-1 Features released in IMS 09.00.01**

Feature Number	Feature Title
11111.2	MyTeamWork IMS Ready Testing for IMS9.0/7.7/ICS2.0
11111.3	Genesys IMS Ready testing for IMS9.0/IMS7.7/ICS2.0
11111.4	cIMS IMS Ready testing for IMS7.7
33333.157	Support for additional ISDN BRA Services: CW/MSN
33333.212	IMS Solution Level Software Upgrade Development & Test for IMS 7.6/8.3 to IMS 7.7/9.0 Software Upgrade Path
33333.280	NLT Codenomicon and DOS Testing
33333.281	Element NESSUS & CIS Scanning for IMS Solution
33333.282	Network Element Codenomincon SIP testing
33333.29	Solution: IMS Priority Service for NGN GETS Phase 1A
33333.312	Additional Network Element Coverage By The OMC-P
33333.315	IMS 9.0 Geographic Redundancy Solution Level Testing
33333.317	5420 SCG 7.0 Testing for Single-Mode Mobile Extensions (ME) over CDMA in dIMS.
33333.320	Capacity testing for IMS 9.0
33333.321	E2E Performance, Reliability, Stability testing for IMS 9.0
33333.329	CVoIP Solution End-to-End Subscriber Provisioning Validation for 2nd Generation Workflows
33333.367	1300 XMC FM/PM Coverage of NEs for IMS 7.7 / 9.0
33333.375	IMS Solution: Centralized Backup & Restore - Phase 1

**Table 2-2 Features released in IMS 09.00.00**

<b>Feature Number</b>	<b>Feature Title</b>
33333.141	NLT testing for OMC-P on M4000 Hardware
33333.142	NLT testing for BTS on T5440 Hardware
33333.144	NLT testing for IeCCF on T5440
33333.162	IMS 9.0 Priority 1 Network Assurance Improvements
33333.290	IP Peering Border Enhancements
33333.311	ALU access border solution testing - IMS 9.0
33333.314	Distributed IMS Consumer VoIP (CVoIP)
33333.316	IMS9.0 Solution Support of IPv6
33333.322	IMS Solution: E2E Testing of Common Service Enhancements
33333.323	IMS Solution: Class 5 PSTN Emulation Subsystem Services
33333.324	IMS Solution: E2E Testing of PBX Enhancements
33333.325	IMS Solution: Video Services
33333.334	ALU Media Negotiation Function (Transcoding) Solution
33333.348	IP Architecture IMS 9.0
33333.366	1310 OMC-P FM/PM Coverage of NEs for IMS 7.7 / 9.0
33333.372	Mass Data Migrations Solution testing I:

## 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 09.00.01 test program. See Table 6-1 for exceptions.

**Table 3-1 NLT test results**

<b>Solution</b>	<b>Progress Rate</b>	<b>Quality (Pass Rate)</b>	<b>Exit Criteria Status (Reached/Not Reached)</b>
<i>IMS 09.00.01 Solution Testing</i>	100%	97%	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 08.03.01 and this release.

## Interface changes

### Changes to Northbound Interfaces

The following documents describe the Northbound interface changes for the 1300 XMC:

- *Alcatel-Lucent 1300 XMC SNMP Alarm Forwarding*, 3BL59971HAAAPCZZA
- *Alcatel-Lucent 1300 XMC Administrator Guide*, 3BL96356HAAAPCZZA (see Chapter 10)

The following document describes the Northbound interface changes for the 1357 ULIS:

- *Alcatel-Lucent 1357 ULIS\_R12.5.1\_Release Note*, 3BW958470001FMZZA\_05

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

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

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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, 3AT34450AAAHDTZZA*
- *MRF Alarms Dictionary – User Guide, 3AT34450AAAGDTZZA*

The following document describes the Northbound interface changes for the 7510 MGW:

- *Alcatel-Lucent Media Gateways 7510 Release 3.2.2 Generic Release Note Software Build B02A (P6050410) A7510\_R322\_05\_04\_2010\_B02A, 3FZ-04909-ADAA-DFZZA*

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

- *Alcatel-Lucent 1310 OMC-P Release Software Release Notes, 255-400-402R14.3.1.1*

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

- *Alcatel-Lucent Gateway Platform Release 7.1.0.0.27 Billing and Traffic System (BTS) Release Notes, 255-400-404R7.1.0.0.27* (See Appendix A)

## 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.

## Message changes

Please consult the NE-specific documentation for new messages or changes to messages in this release.

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## Port changes

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

- *Alcatel-Lucent 1310 OMC-P Software Release Notes, 255-400-402R14.3.1.1* (See Chapter 5)

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

- *Alcatel-Lucent 1357 ULIS\_R12.5.1\_Release Note, 3BW958470001FMZZA\_05*

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

- *1310 OMC-P for Alcatel-Lucent Control Platform User Guide for Managing the 5420 CTS & 5450 IP Session Control Function, 255-400-420R14.3.1* (See Chapter 4)

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

- *Alcatel-Lucent 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 09.00.00 Solution Ports and Protocols, 275-100-058R09.00.00*

The following document describes the port changes for the 7510 MGW:

- *Alcatel-Lucent Media Gateways 7510 Release 3.2.2 Generic Release Note Software Build B02A (P6050410) A7510\_R322\_05\_04\_2010\_B02A, 3FZ-04909-ADAA-DFZZA*

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

- *Alcatel-Lucent Gateway Platform Release 7.1.0 Maintenance and Diagnostic Procedures Guide, 255-400-001R7.0.1*

## Protocol changes

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

- *Alcatel-Lucent 1310 OMC-P Software Release Notes, 255-400-402R14.3.1.1* (See Chapter 5)

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

- *Alcatel-Lucent 1357 ULIS\_R12.5.1\_Release Note, 3BW958470001FMZZA\_05*

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

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- *1310 OMC-P for Alcatel-Lucent Control Platform User Guide for Managing the 5420 CTS & 5450 IP Session Control Function, 255-400-420R14.3.1* (See Chapter 4)

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

- *Alcatel-Lucent 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 09.00.00 Solution Ports and Protocols, 275-100-058R09.00.00*

The following document describes the protocol changes for the 7510 MGW:

- *Alcatel-Lucent Media Gateways 7510 Release 3.2.2 Generic Release Note Software Build B02A (P6050410) A7510\_R322\_05\_04\_2010\_B02A, 3FZ-04909-ADAA-DFZZA*

## System parameter changes

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

- *Alcatel-Lucent 1301 OMC-P for Alcatel-Lucent Gateway Platform Management User Guide, 255-400-400R14.3.1*

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

- *Alcatel-Lucent 1357 ULIS\_R12.5.1\_Release Note, 3BW958470001FMZZA\_05*

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

- *Alcatel-Lucent 5420 Converged Telephony System (CTS) Release 7.0 Application User Guide, 275-900-366R7.0* (See Chapter 5)

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

- *Alcatel-Lucent 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 09.00.00 Solution System Parameters, 275-100-0587R09.00.00*

The following document describes the system parameter changes for the 7510 MGW:

- *Alcatel-Lucent Media Gateways 7510 Release 3.2.2 Generic Release Note Software Build B02A (P6050410) A7510\_R322\_05\_04\_2010\_B02A, 3FZ-04909-ADAA-DFZZA*



# 5 Resolved issues

## Overview

### Purpose

This chapter describes customer-reported ARs and NLT-reported problems resolved in this release.

## Resolved issues

This section lists resolved issues that were previously reported as *Known Issues* in Chapter 6. Table 5-1 lists the severity 1 and 2 issues that were resolved in the loads that are part of this release.

**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
OMC-P-LGP	IMS9.0.1	OMC-P_14.3.1.1	fix verified in IMS9.0.1	fixed_ngn	TCAs can not be generated on OMC-P for 486 sip message on MGC-8..
ISC	IMS9.0.1	20.60.01.01	fix verified in IMS9.0.1	core	Adding Sip Stack Timer Profile error message on OMC-P is inconsistent with FSGUI.
ISC	IMS9.0.1	20.60.01.02	fix verified in IMS9.0.1	cvoip_xdsl	Diameter stack (client side - PCSCF) failed to routing RAR - IMS9.0 NLT CPRS.
ISC (iAGCF)	IMS9.0.1	20.60.01.04	fix verified in IMS9.0.1	pstn	Media Negotiation (iAGCF) Transcoding with 3-way call fails.

# 6 Known issues



## Overview

### Purpose

This chapter describes NLT-reported issues that remain open in Release 09.00.01.

## Known issues and workarounds

As of July 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 09.00.01**

NE to Lead	Resolve Rls	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
ISAM-V	Targeted for IMS9.2	Targeted for R4.1.0.2.xxx	Targeted for R4.1.0.2.xxx. 30-aug-2010	ip_xform	VGW 3-way Conference call ends when one non controller subscriber goes on-hook	When 7302 ISAM is configured as a VGW, when the controller of the conference is an ISAM VGW user, the call will end if one of the non controller users goes onhook.
OMC-P-LGP	Targeted for IMS9.2 (ICS2.0.1)	Targeted for OMC-P_15.0.0.0	Fxd in OMC-P_15.0.0.0 -- scheduled to be releases 6/30	core	The alarms with trouble ID 9810 "BTS CPU utilization crosses thresholds" and 9811 "BTS Memory utilization crosses threshold" can't be displayed on OMC-P.	See Exception Description column
1300 XMC	Targeted for IMS9.2	Targeted for XMC 7.0.5.2	On track for XMC 7.0.5.2	core	Not all the performance files for LCP are delivered to XMC.	Workaround: Look at the OMC-P for the correct data.

NE to Lead	Resolve Rls	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
IeCCF	Targeted for IMS 9.2	Under investigation	On track	core	The MAS GrowExtNetwork tool does not reconcile the SUBNET value for the case when default values are used.	The GrowExtNetwork prompted with a default netmask value [255.255.255.0] for IP address 135.2.79.70 - both pulled from the config_info file entered via ConfigSW earlier during newinstall1. After entering 'Return' to accept these defaults, the resulting /etc/netmasks file had the following Class B -> C entry: 135.2.0.0 -> 255.255.255.0 Workaround: Create static hosts for the network.
1300 XMC	Targeted for IMS9.2	Targeted for XMC 7.0.5.2	on track for XMC 7.0.5.2	core	XMC does not download Performance Measurement Data from SDM.	For SDM XMC is not able to get performance measurement because of negative deviation from GMT.
SCG (FSGUI)	Targeted for IMS9.2 (ICS2.0.1)	Targeted for LCP_20.60.01.06	Fix is available, patch 20.60.01.06 targeted for w26	core	CTS profile with Database server IP as 0.0.0.0 come up with blank on OMC-P.	When the customer has the SCG with a CTS database server IP of 0.0.0.0, the OMC-P CTS profile database server IP will be blank. They will not be able to update the CTS profile without entering the IP address 0.0.0.0. If they do a synchronization, with the SCG, the IP will be blank again.

**Table 6-2 NLT-reported severity 2 open issues from IMS 09.00.00**

NE to Lead	Resolve Rls	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
8650 SDM	Under Investigation	Targeted for R2.1SU1 IAP05	On track for R2.1SU1 IAP05	install/upgrade	Diameter Cx Connections bounce with faulty Malban that reboots constantly	The reset of a MALBAN causes 3 minutes of unavailability. This is a Radware 'load balancer' issue, will be targeted for a future IAP.

NE to Lead	Resolve Rls	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
OMC-P-LCP	Targeted for IMS9.2	Targeted for OMC-P 15.0	On track for OMC-P 15.0	cvoip_xdsl	Can not modify sip header rule with update string.	Modification of SIP header rule does not follow TL1 convention. Workaround: LT command format needs to be entered using the following format (strings inside single quotes e.g. 'test123'): ED-SIP-HDRRULE::1-2:::updatestring="'test123'".



# 7 System requirements

## Overview

### Purpose

This chapter describes IMS GUI Java dependencies and compatibility restrictions.

## Software requirements

### IMS GUIs JAVA Installation Dependency

The operation of Java based GUIs on a single PC will be impacted by the installation order. The following sequence should be followed:

1. Remove all 1.5 and 1.6 JREs from the PC.
2. Install the 8950 SAM GUI; JRE 1.6.0\_16 will be installed.
3. Install the 1310 OMC-P GUI.
4. Install the VitalQIP GUI.
5. Install the 1300 XMC GUI; JRE 1.5.0\_22 will be installed.
6. For Internet Browser GUIs, start each GUI in a separate Internet Explorer so the appropriate JRE is loaded.

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## 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 08.03.01 to IMS 09.00.01. See the *Alcatel-Lucent Internet Protocol Multimedia Subsystem (IMS) Solution 09.00.00 Software Upgrade* document, 275-100-035R09.00.00, and specific NE documentation for more information. The specific upgrade path must be provided by each NE.

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# 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 09.00.00 Software Upgrade 275-100-035R09.00.00*

Refer to the NE documentation for specific software upgrade information.

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## Upgrade paths

Upgrade to IMS 09.00.01 is supported from IMS 08.03.01. Network Elements may require multiple transitions to go from IMS 08.03.01 to IMS 09.00.01; refer to the specific NE documentation for further details.

## Security hardening

Security hardening procedures and information for IMS Release 09.00.01 NEs is available on OLCS at: <https://services.support.lucent.com/services/>. Click on IMS Solutions, then click on Security Hardening IMS Release 07.07.00/09.00.00. 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



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## A

### **AGCF**

Access Gateway Control Function

### **ATCA**

Advanced Telecommunications Computing Architecture

### **AR**

Action Register

---

## B

### **BTS**

Billing and Traffic System

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## C

### **CMS**

Change Management System

### **CTS**

Converged Telephony Server

### **CVoIP**

Consumer Voice over IP

---

## D

### **DNS**

Domain Name System

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## E

### **ENUM**

tElephone Numbering Mapping

### **eSM**

enhanced Service Manager

---

## F

### **FS**

Feature Server

---

**FTTU**  
Fiber To The User

---

**G**

**GUI**  
Graphical User Interface

---

**H**

**HSS**  
Home Subscriber Server

---

**I**

**ICC**  
Instant Convergent Charging

**leCCF**  
Instant enhanced Charging Collection Function

**IMS**  
IP Multimedia System

**IRC**  
IP Resource Control

**ISAM**  
Intelligent Services Access Manager

**ISC**  
IP Session Controller

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**L**

**LCM**  
Lucent Communication Manager

**LIG**  
Lawful Interception Gateway

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**M**

**MGC**  
Media Gateway Controller

**MGW**  
Media Gateway

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---

**MRF**  
Media Resource Function

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**N**

**NE**  
Network Element

**NLT**  
Network Level Test

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**O**

**OAM**  
Operations, Administration, Maintenance

**OLCS**  
OnLine Customer Support

**OMC-P**  
Operations and Maintenance Center - Plus

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**P**

**PES**  
PSTN Emulation Solution

**PCM**  
Personal Communication Manager

**PRBT**  
Personalized Ring Back Tone

**PSTN**  
Public Switched Telephony Network

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**S**

**SAM**  
Services Activation Manager

**SCG**  
Service Continuity Gateway

**SDM**  
Subscriber Data Manager

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**SQM**

Service Quality Manager

**SSC**

Subscriber Services Controller

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**U**

**ULIS**

Unified Lawful Intercept Suite

**USDS**

Unified Subscriber Data Server

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**V**

**VoIP**

Voice over Internet Protocol

**VSG**

Voice Signaling Gateway

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**X**

**XMC**

Cross-domain Management Center

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