



# Alcatel-Lucent

IP MULTIMEDIA SUBSYSTEM RELEASE 08.01.01

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 08.01.01, 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 08.01.01.

## Reason for revision

This is the first issue of the IMS Release 08.01.01 Release Notes document.

## Intended audience

The intended audience for this document includes all personnel who need information about the IMS 08.01.01 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 08.01.01.

## 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.

## 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 Online Customer Support Site (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 loads that comprise Release 08.01.01 and the documentation deliverables included in this release.

## Software deliverables

Table 1-1 lists the loads that comprise Release 08.01.01.

**Table 1-1 Software release identification**

<b>Network Element/Application</b>	<b>Load Name in IMS 08.01.00</b>	<b>Load Name in IMS 08.01.01</b>	<b>Load Changed Since IMS 08.01.00?</b>
1300 Cross Management Center (XMC)	R6.2.2.5 Plus 1300 XMC R6.2.2.5 IAP 01	R6.2.2.5 Plus 1300 XMC R6.2.2.5 IAP 01	No
<b>1310 Operations and Maintenance Console – Provisioning (OMC-P)</b>	OMC-P13_02_00_00	<b>OMC-P13_02_00_01</b>	<b>Yes</b>
1357 Unified Lawful Intercept Suite (ULIS) Lawful Interception Gateway (LIG)	R12.3.5 ed.2	R12.3.5 ed.2	No
<b>1440 Unified Subscriber Data Server (USDS) (Includes MAS/AHE)</b>	R7.3 SPA: h1r7.3.n04.upd72.01 MAS: ltmasr27-p0207	<b>R7.3 SPA: h1r7.3.n04.upd72.01 MAS: ltmasr27-p0207</b>  <b>Then upgrade to: 1440 USDS R7.3 P01 MAS R27 SU2 Patch (ltmasr27-p0214)</b>	<b>Yes</b>
5020 Media Gateway Controller – 8 (MGC-8)	LGP-6-4-0-5-SP-1-2	LGP-6-4-0-5-SP-1-2	No
5020 Media Gateway Controller – 12 (MGC-12)	- 5020 MGC NRSX30 NGVI SP3 (SW Build w912) - A1300 CMC218 12R16 (for use with A7510 MGW B14E)	- 5020 MGC NRSX30 NGVI SP3 (SW Build w912) - A1300 CMC218 12R16 (for use with A7510 MGW B14E)	No
<b>5100 Converged Messaging System (CMS) (AnyPath)</b>	R10SU3	<b>R10SU3 (build SU3: 1000.30.4.2 and later)</b>	<b>Yes</b>
<b>5420 Converged Telephony Server (CTS)</b>	R17.18.00.00 And then apply R17.18.00.06	<b>R17.21.01.00 Then patch to R17.21.01.01</b>	<b>Yes</b>
<b>5420 Personal Communication Manager (PCM)</b>	PCM_R6_1_0_39  Platform: - 5400 R1.2 Patch: - 5400 R1.2.2 - 5400 R1.2.2.1 Plus -> 1.2.2.2 -> R1.3 -> R1.3.3  TP: 6.1.0.3	<b>PCM 6.1.1.18</b>  <b>Platform: - 5400 R1.2 Patch: - 5400 R1.2.2 - 5400 R1.2.2.1 Plus -&gt; 1.2.2.2 -&gt; R1.3 -&gt; R1.3.3</b>  <b>TP: 6.1.0.4</b>	<b>Yes</b>

Network Element/Application	Load Name in IMS 08.01.00	Load Name in IMS 08.01.01	Load Changed Since IMS 08.01.00?
5440 IMS-PC Client	5440_PCC_r3.1.0.2269 (PCM)	5440_PCC_r3.1.0.2269 (PCM)	No
5450 Access Gateway Control Function (AGCF)	AGCF-5-1-1 R1S3 Then patch to AGCF511R1S3P1	AGCF-5-1-1 R1S3 Then patch to AGCF511R1S3P1	No
<b>5450 IP Session Control (ISC)/ IP Resource Controller (IRC)</b>	R17.18.00.00 And then apply R17.18.00.06	<b>R17.21.01.00</b> <b>Then patch to R17.21.01.01</b>	<b>Yes</b>
5750 Subscriber Services Controller (SSC)	SSC 3.1R5 and SAC/CLF 3.1R5	SSC 3.1R5 and SAC/CLF 3.1R5	No
5900 Media Resource Function (MRF)	MRF6.3.4.1	MRF6.3.4.1	No
7302 Intelligent Services Access Manager (ISAM) -V	ISAM-V-R3.7.00b	ISAM-V-R3.7.00b	No
<b>7510 Media Gateway (MGW)</b>	7510 R3.0_B14e	<b>A7510_R31N_07_05_2009_B06 (also called R3.1 SP2)</b>	<b>Yes</b>
7515 Media Gateway (MGW)	7515m2.4B0120	7515m2.4B0120	No
7520 Media Gateway (MGW)	LGP-6-4-0-5-SP-1-2	LGP-6-4-0-5-SP-1-2	No
7750 Service Router	7750_R6.0_R9	7750_R6.0_R9	No
8610 Instant Convergent Charging (ICC)	ICC462-MD02-DR4	ICC462-MD02-DR4	No
<b>8615 Instant enhanced Charging Collection Function (leCCF)</b>	N440 Hardware: leCCF R26SU8 and hotslide0104  MAS-R26SU8 and patch0810  ===== T2000 Hardware: leCCF 27.3 and hotslide0104  MAS R27SU2-p0210	<b>N440 Hardware: leCCF R26SU8 and hotslide0106</b>  <b>MAS-R26SU8 and patch0814</b>  ===== <b>T2000 Hardware: leCCF 27.3 and hotslide0106</b>  <b>MAS R27SU2-p0216</b>	<b>Yes</b>
<b>8650 Subscriber Data Manager (SDM) (HSS on ATCA)</b>	SDM2.0.1: sdm8650-v2-r4.002.0520-22 (Distributed)  OS6850_6311052R01 (Frontal Router)  RadwareAS4_1.02.01XA-AppD_1.06.00-1122009 (Load Balancer)	<b>SDM2.0.1: sdm8650-v2-r4.002.0520-22 (Distributed)</b>  <b>OS6850_6311052R01 (Frontal Router)</b>  <b>RadwareAS4_1.02.01XA-AppD_1.06.00-1122009 (Load Balancer)</b>  <b>Plus SDM 2.0.1 IAP002: sdm8650-v2-r4.002.0610-40</b>	<b>Yes</b>
<b>8950 Services Activation Manager (SAM)</b>	Will be updated by DR5	<b>15.5.4 (HP)</b> <b>16.0.2 (Linux)</b>	<b>Yes</b>
Acme Packet Session Director (4250)	C5.1.1p23	C5.1.1p23	No

<b>Network Element/Application</b>	<b>Load Name in IMS 08.01.00</b>	<b>Load Name in IMS 08.01.01</b>	<b>Load Changed Since IMS 08.01.00?</b>
enhanced Service Manager (eSM)	eSM R26 SU9	eSM R26 SU9	No
Fortinet Fortigate Firewall	v3.0.MR5.8108	v3.0.MR5.8108	No
<b>Lucent Control Platform (LCP) (ATCA platform only)</b>  <b>Includes:</b> - 5420 CTS - 5450 ISC / IRC - iAGCF	R17.18.00.00 Then apply R17.18.00.06	<b>R17.21.01.00</b> <b>Then patch to R17.21.01.01</b>	<b>Yes</b>
Lucent Gateway Platform (LGP)  Includes: - 5020 MGC - 7520 MGW	LGP-6-4-0-5-SP-1-2	LGP-6-4-0-5-SP-1-2	No
OXE OmniPCX Enterprise	R9.0	R9.0	No
Plexus Billing and Traffic System (BTS)	BTS-6.4.1.0.15	BTS-6.4.1.0.15	No
VitalQIP	VitalQIP R7.1  DNS R4.0 Build 23  ENUM R1.2  VQIP eSM ISR: USDS-04.01.70.06 (only VQIP200 file)	VitalQIP R7.1  DNS R4.0 Build 23  ENUM R1.2  VQIP eSM ISR: USDS-04.01.70.06 (only VQIP200 file)	No
<b>Westell TriLink™ IMS Gateway 6358</b>	Trilink-B90/SW.02.00.04/sw2.0055.27	<b>Trilink-B90/SW.02.00.04/sw2.0055.27 27 (with Fortinet FW)</b>  <b>Westell_RBGW-02.00.03.02, sw2.0055.17 (with ACME FW)</b>	<b>Yes</b>

## 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 08.01.01.

**Table 1-2 IMS 08.01.01 solution documentation**

Title	Ordering number
<i>IMS Release 08.01.00 Solution Technical Description</i>	275-100-000R08.01.00
<i>IMS Release 08.01.00 Solution Operations, Administration, Maintenance, &amp; Provisioning</i>	275-100-001R08.01.00
<i>IMS Release 08.01.01 Solution Release Notes</i>	275-100-004R08.01.01
<i>IMS Release 08.01.00 Software Upgrade</i>	275-100-035R08.01.00
<i>IMS Release 08.01.00 Interface Changes Specifications</i>	275-100-050R08.01.00
<i>IMS Release 08.01.00 Solution System Parameters</i>	275-100-057R08.01.00
<i>IMS Release 08.01.00 Solution Ports and Protocols</i>	275-100-058R08.01.00
<i>IMS Release 08.01.00 Solution Growth</i>	275-100-059R08.01.00
<i>IMS Release 08.01.00 Solution Provisioning</i>	275-100-060R08.01.00

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 navigate OLCS, do the following:

1. Go to (<https://support.alcatel-lucent.com/portal/productIndexByCat.do>).
2. After a successful login, select **Services Collaboration** from the list on the left side of the page.
3. Select **IMS Solutions** from the list in the middle of the page.

From here, you can access the documentation through either the **IMS Solution Level Documentation** section or by selecting a network element from the **Links to network elements in the IMS Solution** section.



# 2 New features



## Overview

### Purpose

This chapter lists the features included in Release 08.01.01.

## New features

The following features are included in this release:

**Table 2-1 Features released in 08.01.01**

<b>Feature Number</b>	<b>Feature Title</b>
33333.99	Geographic Redundancy testing for IMS 8.1
33333.104	IMS 8.1 End to End Security Testing
33333.124	End to End Provisioning Flow Through Performance Testing and Regression Testing of 1st Generation Work Flows
33333.126	End to End Provisioning Flow Through Performance and Routing Regression Testing of 2nd Generation Work Flows
33333.253	E2E support for Video sessions with 7510 in the bearer path

**Table 2-2 Features released in 08.01.00**

<b>Feature Number</b>	<b>Feature Title</b>
33333.48	R7 Rf Interface Alignment to 3GPP R7 for Offline Charging
33333.78	Open Numbering Plan
33333.80	Border Solution Enhancements (Distributed IMS Only)
33333.82	Hexadecimal Digits in Request URI (R-URI)
33333.85	E2E Performance, Reliability, Stability Testing
33333.88	5420 CTS Supplementary Service Enhancements
33333.92	Diameter Reliability for Alternate FQDN
33333.93	Call Gapping and Code Blocking
33333.95	Distributed IMS CVoIP
33333.97	Lawful Interception for Shared Public User Ids (ETSI)
33333.100	Field Measurable E2E Performance KPI Verification
33333.101	E2E Fault Management
33333.139	IMS Solution Level Software Upgrade Development & Test for IMS 8.0 to IMS 8.1 Software Upgrades

## Functionality

See the specific NE documentation for configuration information.

## Enhancements

There are no non-feature enhancements in this release.

# 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 08.01.01 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)
<i>Overall Release</i>	100%	98.6%	Reached
<i>total</i>	100%	98.6%	





# 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 in this release.

## Interface changes

### Changes to Northbound Interfaces

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

- *Alcatel-Lucent 1310 OMC-P Software Release Notes, 255-400-402R13.2.0.0* (See chapter 5)

You can also refer to the following solution-level document additional information about interface changes for IMS 08.01.00 Network Elements:

- *IP Multimedia Subsystem Release 08.01.00 Solution Interface Changes Specifications, 275-100-050R08.01.00*

## 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.

## Message changes

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

## Port changes

No port changes have been reported for this release.

## Protocol changes

No protocol changes have been reported for this release.

## System parameter changes

No system parameter changes have been reported for this release.



# 5 Resolved issues

## Overview

### Purpose

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

## Resolved issues

This section will list any resolved issues that were previously reported as *Known Issues* in Chapter 6.

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

<b>NE to Lead</b>	<b>Resolve Rls</b>	<b>Fixed in Load</b>	<b>Current Status</b>	<b>Solution(s)</b>	<b>Exception Description</b>
OXE	IMS8.3	H1.301.30	resolved	Bvoip	OXE fails to recognize incoming ext gateway for PSTN to PBX with no ENUM.
leCCF	IMS8.1.1	R26SU8/27.3 HS0106	resolved	Core	RfV7 is not fully supported from a capacity perspective.
5100 CMS	IMS8.1.1	R10SU3 (build SU3: 1000.30.4.2 and later)	resolved	cvoip	RTP fails between AnyPath and subscriber when Outcall feature used.

# 6 Known issues



## Overview

### Purpose

This chapter describes NLT-reported issues that remain open in Release 08.01.01.

## Known issues and workarounds

As of July 2009, no NLT-verified 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 08.01.01**

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
5100 CMS	IMS8.3	R10SU4	fix targeted for CMS R10SU4	pstn	RTP fails between AnyPath and subscriber with Outcall feature to PSTN Endpoint	The CMS outcall features will not work to a PSTN endpoint.

**Table 6-2 NLT-reported severity 2 open issues from IMS 08.01.00**

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
USDS	Under Investigation	Under Investigation	PdM is working w/ NEs	core	Alarm message sent to XMC does not have the correct date/time format.	The XMC will display the wrong date and time of a USDS alarm.
OMC-P-LGP	IMS8.3	R14.0	Fixed in OMC-P R14.0. will be verified in IMS8.3	core	OMC-P does not reflect the correct status of SPs during the SYNCHUP after s/o- this affects only the MGC8, 7520 MGW and LNC products.	The CFT have no information indicating the OM-P is synching.
5900 MRF (was 1357 ULIS)	Under Investigation	Under Investigation	Under Investigation	bvoip	For all terminating LI PBX targets no HI3 (call content) received at LEMF.	Call terminating to an OXE IP PBX cannot be intercepted when in NNI mode with Penlink, OXE, LIG.



# 7 System requirements

## Overview

### Purpose

This chapter describes IMS GUI Java dependencies and compatibility restrictions.

## Software requirements

### IMS GUIs JAVA Dependency

Table 7-1 shows IMS GUIs with Java installation dependencies (listed in order of installation sequence).

**Table 7-1 IMS GUIs with Java installation dependencies**

LCP MI GUI	Java installed per link provided during initial start of MI GUI (Java 1.5.0_06)
XMC GUI	Java installed per link provided during initial start of MI GUI (Java 1.5.0_15)

The following NE GUIs do not have Java dependencies: 5420 CTS, 5450 ISC, 1310 OMC-P, 5900 MRF, 5420 PCM Platform.

## SUN Operating System Patch Level for Non-Integrated Components

Table 7-2 shows the SUN OS patch level for non-integrated components.

Table 7-2 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

This section does not apply to 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 08.01.00 to IMS 08.01.01. See the *Alcatel-Lucent Internet Protocol Multimedia Subsystem (IMS) Solution 08.01.00 Software Upgrade* document, 275-100-035R08.01.00, 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 08.01.00 Software Upgrade 275-100-035R08.01.00*

## Upgrade paths

Upgrade to IMS 08.01.01 is supported from IMS 08.01.00. Network Elements may require multiple transitions to go from IMS 08.01.00 to IMS 08.01.01; refer to the specific NE documentation for further details.

## Security hardening

Security hardening procedures and information for IMS Release 08.01.01 NEs are on OLCS. Go to: <https://services.support.lucent.com/services/>, click on IMS Solutions, then click on Security Hardening IMS Release 07.04.00/08.01.00. 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

---

## C

**CMS**  
Change Management System

**CTS**  
Converged Telephony Server

**CVoIP**  
Consumer Voice over IP

---

## D

**DNS**  
Domain Name System

---

## E

**eSM**  
enhanced Service Manager

---

## F

**FS**  
Feature Server

---

## 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 Control

---

**L**

**LCP**  
Lucent Control Platform

**LGP**  
Lawful Gateway Platform

---

**M**

**MGC**  
Media Gateway Controller

**MGW**  
Media Gateway

**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 Console – Provisioning

---

**P**

**PCM**  
Personal Communication Manager

**PSTN**  
Public Switched Telephony Network

---

**S**

**SAM**  
Services Activation Manager

**SDM**  
Subscriber Data Manager

**SSC**  
Subscriber Services Controller

---

**U**

**ULIS**  
Unified Lawful Intercept Suite

**USDS**  
Unified Subscriber Data Server

---

**V**

**VoIP**  
Voice over Internet Protocol

X

**XMC**  
Cross-domain Management Center

---