



# Alcatel-Lucent

IP MULTIMEDIA SUBSYSTEM RELEASE 08.04.01

SOLUTION EXTERNAL RELEASE NOTES

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# Contents



<b>About this document</b>	<b>v</b>
Purpose.....	v
Reason for revision .....	v
Intended audience.....	v
Supported systems.....	v
Conventions used .....	v
Technical support.....	v
How to order .....	vi
How to comment.....	vi
<b>1 Release components</b>	<b>1-1</b>
Overview .....	1-1
Purpose.....	1-1
Software deliverables .....	1-2
How to obtain software .....	1-4
Document deliverables.....	1-4
To obtain documentation.....	1-4
<b>2 New features</b>	<b>2-1</b>
Overview .....	2-1
Purpose.....	2-1
New features.....	2-1
Functionality .....	2-2
Enhancements .....	2-2
<b>3 Test results</b>	<b>3-1</b>
Overview .....	3-1
Purpose.....	3-1
Test results/exit criteria .....	3-1
<b>4 Changes to fault management, ports, protocols, and parameters</b>	<b>4-1</b>
Overview .....	4-1
Purpose.....	4-1
Interface changes.....	4-1

	Changes to Northbound Interfaces.....	4-1
	Changes to Southbound Interfaces.....	4-1
	Alarm changes .....	4-2
	Message changes.....	4-2
	Port changes.....	4-2
	Protocol changes.....	4-2
	System parameter changes.....	4-2
<b>5</b>	<b>Resolved issues</b>	<b>5-1</b>
	Overview.....	5-1
	Purpose.....	5-1
	Resolved issues.....	5-2
<b>6</b>	<b>Known issues</b>	<b>6-1</b>
	Overview.....	6-1
	Purpose.....	6-1
	Known issues and workarounds.....	6-2
<b>7</b>	<b>System requirements</b>	<b>7-1</b>
	Overview.....	7-1
	Purpose.....	7-1
	Software requirements .....	7-1
	IMS GUIs JAVA Dependency.....	7-1
	SUN Operating System Patch Level for Non-Integrated Components.....	7-2
	Software licensing keys .....	7-2
	Hardware requirements.....	7-2
	Compatibility restrictions.....	7-3
<b>8</b>	<b>Installation and upgrade notes</b>	<b>8-1</b>
	Overview.....	8-1
	Purpose.....	8-1
	Performing first-time installation.....	8-1
	Performing upgrades.....	8-1
	Upgrade paths .....	8-1
	Security hardening .....	8-2
	Feature activation.....	8-2
	Obtaining and installing third-party software .....	8-2
	<b>Acronym List</b>	<b>1</b>

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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 08.04.01, including a list of the network element load versions, IMS network level test (NLT) results, and known issues to assist service providers with field deployments of IMS Release 08.04.01.

## Reason for revision

This is the first issue of the IMS Release 08.04.01 Release Notes document.

## Intended audience

The intended audience for this document includes all personnel who need information about the IMS 08.04.01 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 08.04.01.

## 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 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 08.04.01 and the documentation deliverables included in this release.

## Software deliverables

Table 1-1 lists the loads that comprise Release 08.04.01. New or changed load names are shown in bold-face type.

**Table 1-1 Software release identification**

<b>Network Element/Application</b>	<b>Load Name in IMS 08.04.00</b>	<b>Load Name in IMS 08.04.01</b>	<b>Load Changed Since IMS 08.04.00?</b>
1300 Cross Management Center (XMC)	R7.0.0.4 + IAP04+N13	R7.0.0.4 + IAP04+N13	No
1310 Operations and Maintenance Console – Provisioning (OMC-P)	OMC-P14_01_02_00	OMC-P14_01_02_00	No
1357 Unified Lawful Intercept Suite (ULIS) Lawful Interception Gateway (LIG)	R12.4.2	R12.4.2	No
1440 Unified Subscriber Data Server (USDS) (Includes MAS/AHE)	R7.3 SPA: h1r7.3.n04.upd72.01 MAS: ltmassr27-p0207  Then upgrade to: 1440 USDS R7.3 P01 MAS R27 SU2 Patch (ltmassr27-p0214)	R7.3 SPA: h1r7.3.n04.upd72.01 MAS: ltmassr27-p0207  Then upgrade to: 1440 USDS R7.3 P01 MAS R27 SU2 Patch (ltmassr27-p0214)	No
5020 Media Gateway Controller – 8 (MGC-8)	LGP7-0-0-3 SP6	LGP7-0-0-3 SP6	No
5100 Converged Messaging System (CMS)	CMS-10SU4 (must be a minimum of build 1000.40.038)	CMS-10SU4 (must be a minimum of build 1000.40.038)	No
<b>5410 Presence Server/XML Document Management Services (PS/XDMS)</b>	5.0 SP3 Hp  5350 IAS 3.4 SP3.4 Hp	<b>5.0 SP3.1 Hp</b>  <b>5350 IAS 3.4 SP3.5 Hp</b>	<b>Yes</b>
5420 Converged Telephony Server (CTS)	R18.28.01.00 Plus patch: R18.28.01.08	R18.28.01.00 Plus patch: R18.28.01.08	No
5430 MultiMedia Instant Messaging (MMIM)	R5.0 Q4.04	R5.0 Q4.04	No
<b>5440 IMS-PC Client</b>	5440_pc_client_4.1.0_v2373-non-PCM	<b>5440_PC_client_4.1.0.2409</b>	<b>Yes</b>
5450 Access Gateway Control Function (AGCF)	Not Applicable	Not Applicable	Not Applicable

Network Element/Application	Load Name in IMS 08.04.00	Load Name in IMS 08.04.01	Load Changed Since IMS 08.04.00?
5450 IP Session Control (ISC) (includes iAGCF)	R18.28.01.00 Plus patch: R18.28.01.08	R18.28.01.00 Plus patch: R18.28.01.08	No
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)	MRF7.0.2	MRF7.0.2	No
7302 Intelligent Services Access Manager (ISAM) -V	ISAM-V-R40 R 40.129  Plus  R 4.0.0.a (load 40.132)	ISAM-V-R40 R 40.129  Plus  R 4.0.0.a (load 40.132)	No
7510 Media Gateway (MGW)	R3.2.2B01c	R3.2.2B01c	No
7515 Media Gateway (MGW)	7515m2.4B0120	7515m2.4B0120	No
7515 SIP-MGW	7515R31S B0110	7515R31S B0110	No
7520 Media Gateway (MGW)	LGP7-0-0-3 SP6	LGP7-0-0-3 SP6	No
7750 Service Router	7750_R6.0_R9	7750_R6.0_R9	No
8610 Instant Convergent Charging (ICC)	ICCR462MD02	ICCR462MD02	No
8615 Instant enhanced Charging Collection Function (leCCF)	leCCF 276 Mapdata script leCCF 27.6 hotslide0101	leCCF 276 Mapdata script leCCF 27.6 hotslide0101	No
8650 Subscriber Data Manager (SDM) (HSS on ATCA)	8650 SDM R2.1 SU1 IAP2	8650 SDM R2.1 SU1 IAP2	No
8920 Service Quality Manager (SQM)	R3.7.6	R3.7.6	No
8950 Services Activation Manager (SAM) (Sun/Linux Platform)	R16.0.4.2	R16.0.4.2	No
Acme Packet Session Director (4500)	CX6.1.0m2p4	CX6.1.0m2p4	No
enhanced Service Manager (eSM)	eSM R26 SU9	eSM R26 SU9	No
<b>Fortinet Fortigate Firewall</b>	v3.0.MR5.8133	<b>V3.0_MR5_B8134</b>	<b>Yes</b>
Lucent Communication Manager (LCM)	R6.3.6 (bld.201)	R6.3.6 (bld.201)	No
OXE OmniPCX Enterprise	R9.0-h1.301-28-b-us-c80s1	R9.0-h1.301-28-b-us-c80s1	No
Billing and Traffic System (BTS)	BTS_7.0.0.0.14	BTS_7.0.0.0.14	No

Network Element/Application	Load Name in IMS 08.04.00	Load Name in IMS 08.04.01	Load Changed Since IMS 08.04.00?
VitalQIP	VitalQIP R7.2 DNS R4.1 Build 11 ENUM R1.3	VitalQIP R7.2 DNS R4.1 Build 11 ENUM R1.3	No

## How to obtain software

Please contact your Alcatel-Lucent representative to obtain software.

## Document deliverables

For Release 08.04.01, this Release Notes document is the only solution document that is being published. For all other solution documents, please use the latest version (Release 08.04.00).

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:

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 08.04.01.

## New features

There are no new features in this release.

The following features were included in IMS Release 08.04.00:

**Table 2-1 Features released in 08.04.00**

Feature Number	Feature Title
33333.150	E2E support for MMIM sessions using MSRP for endpoints with 7510 in the bearer path
33333.198	IMS 8.4 NLT Codenomicon Scan
33333.206	Configurable composition policy
33333.209	5440 PC Client Interworking with RCS 1.0 3rd party mobile clients
33333.236	MMIM services testing between 5440 PC client 4.1 and 5430 MMIM server 5.0 in IMS 8.4
33333.242	5430 MMIM server 5.0 security features to test in IMS 8.4
33333.245	Participation in RCS Test Fest for RCS 2.0 UNI/NNI testing in IMS 8.4
33333.248	Testing between 5440 PC client 4.1 and 5410 PS/XDMS 5.0 in IMS 8.4
33333.276	CPRS testing of PS/XDMS 5.0 in IMS 8.4
33333.319	ECS Solution End-to-End Subscriber Provisioning Validation for 2nd Generation Workflows
33333.335	ECS Solution End-to-End Subscriber Provisioning Performance for 2nd

<b>Feature Number</b>	<b>Feature Title</b>
	Generation Workflows
33333.342	RCS 2.0 NLT testing in IMS 8.4
33333.344	XMC Validation in IMS 8.4
33333.359	IMS 8.4 Software Upgrade/Update
33333.360	Separate IMS and OAM&P Networks for IMS 8.4
33333.361	NLT Break Testing in IMS 8.4
33333.371	IMS 8.4 NLT Security Hardening
33334.69	RCS regression testing in ICS 1.2 for IMS 8.4 Solution

## 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 08.04.01 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>Feature test on IMS 08.04.01</i>	100%	99.2%	Reached
<i>CPRS test on IMS 08.04.01</i>	100%	96.7%	Reached
<i>Security test on IMS 08.04.01</i>	100%	100%	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 in this release.

## Interface changes

### Changes to Northbound Interfaces

No Northbound interface changes have been reported for this release.

### 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

There are no resolved issued that were previously reported as *Known issues* in Chapter 6.

# 6 Known issues



## Overview

### Purpose

This chapter describes NLT-reported issues that remain open in Release 08.04.01.

## Known issues and workarounds

No customer-reported ARs have been opened against this release.

Table 6-1 lists the severity 2 issues from IMS 08.02.02 that were not resolved in the network element loads that are part of this release. Table 6-2 lists the severity 2 issues from IMS 08.04.00 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 08.02.02**

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
ISC	Under Investigaton	Under Investigation	Under Investigation	ECS	Modify the default gateway is not possible without refieldinstall.	The request is to allow the flexibility to change IP address for the default gateway without starting a reinstall over.
PS/XD MS	Under Investigation	Under Investigation	Under Investigation	ECS	On multi-station HP PSXDMS, no alarm is raised when a station is down.	<p>Impacted Service: Management of the PSXDMS platform from XMC when a server is down.</p> <p>Impact: When one machine is stopped (shutdown, crash) there is no alarm sent to the XMC.</p> <p>Workaround is to monitor the switch routers connected to the PS/XDMS and install a specific HP software HP Open View Agent, as done by SFR, for sending alarm to XMC.</p>

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
ISC	IMS 10.00.00	ISCR21.X	Targeted for IMS 10.00.00	ECS	ISC doesn't maintain Presence sessions during an IMS board switchover.	ISC doesn't maintain Presence sessions during an IMS board switchover platform upgrade.

Table 6-2 NLT-reported severity 2 open issues from IMS 08.04.00

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
5430 IM	IMS 09.02.00	MMIM 5.0 SP2	Targeted for IMS 09.02.00	ECS	Structure of Conf-ID is not compatible with SUBSCRIBE NNI.	Impacted Service: Feature test Chat in NNI architecture.  Impact: User subscribing to the conference is not notified when a contact of another domain is leaving the conference.

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
1300 XMC	IMS 09.02.00	7.0.0.5 SP1	Targeted for IMS 09.02.00	ECS	XMC 7.0.0.4 not aligned with XDMS 5.0 mib: CrossNetw Proxylet counters missing.	Impacted Service: Management of XDMS by XMC.  Impact: Cross Network Proxy counters not monitored on XMC (NNI impact) Workaround: Cross Network Proxy counters are monitored locally on XDMS server.
PS/XD MS	Under Investigation	Under Investigation	Under Investigation	ECS	After crash of agent blade, during restart, 3 minutes of degraded service is observed.	Impacted Service: Blackout during Presence/XDMS agents host crash.  Impact: When simulating a crash of agent's blades, 3 minutes of degraded service is observed during the restart due to the restart of Mysql.



# 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.

## 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

## 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 08.04.00 to IMS 08.04.01. See the *Alcatel-Lucent Internet Protocol Multimedia Subsystem (IMS) Solution 08.03.00 Software Upgrade* document, 275-100-035R08.03.00, 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 08.03.00 Software Upgrade 275-100-035R08.03.00*

Refer to the NE documentation for specific software upgrade information.

## Upgrade paths

Upgrade to IMS 08.04.01 is supported from IMS 08.04.00. Network Elements may require multiple transitions to go from IMS 08.04.00 to IMS 08.04.01; refer to the specific NE documentation for further details.

## Security hardening

Security hardening procedures and information for IMS Release 08.03 NEs are on OLCS. Go to: <https://services.support.lucent.com/services/>, click on IMS Solutions, then click on Security Hardening IMS Release 07.06.00/08.03.00. 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



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## A

**AGCF**  
Access Gateway Control Function

**ATCA**  
Advanced Telecommunications Computing Architecture

**AR**  
Action Register

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## B

**BTS**  
Billing and Traffic System

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## C

**CMS**  
Change Management System

**CTS**  
Converged Telephony Server

**CVoIP**  
Consumer Voice over IP

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## D

**DNS**  
Domain Name System

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## E

**eSM**  
enhanced Service Manager

---

## F

**FS**  
Feature Server

---

## G

**GUI**  
Graphical User Interface

---

**H**

**HSS**  
Home Subscriber Server

---

**I**

**ICC**  
Instant Convergent Charging

**IeCCF**  
Instant enhanced Charging Collection Function

**IMS**  
IP Multimedia System

**IRC**  
IP Resource Control

**ISAM**  
Intelligent Services Access Manager

**ISC**

---

**L**

**LCM**  
Lucent Communication Manager

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**M**

**MGC**  
Media Gateway Controller

**MGW**  
Media Gateway

**MMIM**  
Multimedia Instant Messaging

**MRF**  
Media Resource Function

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**N**

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**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 Console – Provisioning

---

**P**

**PES**  
PSTN Emulation Solution

**PCM**  
Personal Communication Manager

**PS**  
Presence Server

**PSTN**  
Public Switched Telephony Network

---

**S**

**SAM**  
Services Activation Manager

**SDM**  
Subscriber Data Manager

**SQM**  
Service Quality Manager

**SSC**  
Subscriber Services Controller

---

**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**

**XDMS**  
XML Document Management Services

**XMC**  
Cross-domain Management Center

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