



Alcatel-Lucent

IP MULTIMEDIA SUBSYSTEM RELEASE 08.04.00

SOLUTION EXTERNAL RELEASE NOTES

275-100-
004R08.04.00
APRIL 2010
ISSUE 1

Legal Notice

Alcatel, Lucent, Alcatel-Lucent and the Alcatel-Lucent logo are trademarks of Alcatel-Lucent. All other trademarks are the property of their respective owners.

The information presented is subject to change without notice. Alcatel-Lucent assumes no responsibility for inaccuracies contained herein.

Copyright © 2010 Alcatel-Lucent. All Rights Reserved.

Contents



About this document	v
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
1 Release components	1-1
Overview	1-1
Purpose.....	1-1
Software deliverables	1-2
How to obtain software	1-4
Document deliverables.....	1-4
To obtain documentation.....	1-5
2 New features	2-1
Overview	2-1
Purpose.....	2-1
New features.....	2-1
Functionality	2-2
Enhancements	2-2
3 Test results	3-1
Overview	3-1
Purpose.....	3-1
Test results/exit criteria	3-1
4 Changes to fault management, ports, protocols, and parameters	4-1
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
5	Resolved issues	5-1
	Overview.....	5-1
	Purpose.....	5-1
	Resolved issues.....	5-2
6	Known issues	6-1
	Overview.....	6-1
	Purpose.....	6-1
	Known issues and workarounds.....	6-2
7	System requirements	7-1
	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
8	Installation and upgrade notes	8-1
	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
	Acronym List	1

About this document



Purpose

The purpose of this document is to provide a general overview of the IP Multimedia Subsystem (IMS) Release 08.04.00, 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 08.04.00.

Reason for revision

This is the first issue of the IMS Release 08.04.00 Release Notes document.

Intended audience

The intended audience for this document includes all personnel who need information about the IMS 08.04.00 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 08.04.00.

Conventions used

There are no special typographical conventions used in this document.

Technical support

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

How to order

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

How to comment

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



1 Release components

Overview

Purpose

This chapter describes the software loads that comprise Release 08.04.00 and the documentation deliverables included in this release.

Software deliverables

Table 1-1 lists the loads that comprise Release 08.04.00. New or changed load names are shown in bold-face type.

Table 1-1 Software release identification

Network Element/Application	Load Name in IMS 08.02.02	Load Name in IMS 08.04.00	Load Changed Since IMS 08.02.02?
1300 Cross Management Center (XMC)	R6.2.2.5 Then patch R6.2.2- P01 Then patch R6.2.2-N08	R7.0.0.4 + IAP04	Yes
1310 Operations and Maintenance Console – Provisioning (OMC-P)	OMC-P13_02_00_01	OMC-P14_01_02_00	Yes
1357 Unified Lawful Intercept Suite (ULIS) Lawful Interception Gateway (LIG)	Not Applicable	R12.4.2	No
1440 Unified Subscriber Data Server (USDS) (Includes MAS/AHE)	Not Applicable	R7.3 SPA: h1r7.3.n04.upd72.01 MAS: ltmasr27-p0207 Then upgrade to: 1440 USDS R7.3 P01 MAS R27 SU2 Patch (ltmasr27-p0214)	No
5020 Media Gateway Controller – 8 (MGC-8)	Not Applicable	LGP7-0-0-3 SP6	No
5100 Converged Messaging System (CMS)	Not Applicable	CMS-10SU4 (must be a minimum of build 1000.40.038)	No
5410 Presence Server/XML Document Management Services (PS/XDMS)	5.0 Sp2.1 Hp	R5.0 SP3	Yes
5420 Converged Telephony Server (CTS)	R17.21.01.09	R18.28.01.00 Plus patch: R18.28.01.08	Yes
5430 MultiMedia Instant Messaging (MMIM)	Not Applicable	5.0 ASR3.4	No
5440 IMS-PC Client	5440_PCC_r4.0.0_v2315_no nPCM	5440_PCC_r4.1	Yes
5450 Access Gateway Control Function (AGCF)	Not Applicable	Not Applicable	Not Applicable

Network Element/Application	Load Name in IMS 08.02.02	Load Name in IMS 08.04.00	Load Changed Since IMS 08.02.02?
5450 IP Session Control (ISC) (includes iAGCF)	R17.21.01.09	R18.28.01.00 Plus patch: R18.28.01.08	Yes
5750 Subscriber Services Controller (SSC)	Not Applicable	SSC 3.1R5 and SAC/CLF 3.1R5	No
5900 Media Resource Function (MRF)	R6.3.4.1	MRF7.0.2	Yes
7302 Intelligent Services Access Manager (ISAM) -V	Not Applicable	ISAM-V-R40 R 40.129 Plus R 4.0.0.a (load 40.132)	No
7510 Media Gateway (MGW)	R3.1SP2	R3.2.2B01c	Yes
7515 Media Gateway (MGW)	Not Applicable	7515m2.4B0120	No
7515 SIP-MGW	Not Applicable	7515R31S B0110	No
7520 Media Gateway (MGW)	Not Applicable	LGP7-0-0-3 SP6	No
7750 Service Router	Not Applicable	7750_R6.0_R9	No
8610 Instant Convergent Charging (ICC)	Not Applicable	ICCR462MD02	No
8615 Instant enhanced Charging Collection Function (leCCF)	Not Applicable	leCCF 276 Mapdata script leCCF 27.6 hotslide0101	No
8650 Subscriber Data Manager (SDM) (HSS on ATCA)	SDM2.0.1: sdm8650-small-compact-v2-r4.002.0520-22.zip Plus SDM 2.0.1 IAP002: sdm8650-small-compact-v2-r4.002.0610-40.iso	8650 SDM R2.1 SU1 IAP2	Yes
8920 Service Quality Manager (SQM)	Not Applicable	R3.7.6	No
8950 Services Activation Manager (SAM) (Sun/Linux Platform)	R16.0.2 SU1	R16.0.4.2	Yes
Acme Packet Session Director (4500)	C5.1.1p29 (Director 4250)	CX6.1.0m2p4	Yes
enhanced Service Manager (eSM)	Not Applicable	eSM R26 SU9	No
Fortinet Fortigate Firewall	v3.0.MR5.8133	v3.00.MR5.8133	No
Lucent Communication Manager (LCM)	Not Applicable	R6.3.6 (bld.201)	No
OXE OmniPCX Enterprise	Not Applicable	R9.0-h1.301-28-b-us-c80s1	No
Billing and Traffic System (BTS)	Not Applicable	BTS_7.0.0.0.14	No

Network Element/Application	Load Name in IMS 08.02.02	Load Name in IMS 08.04.00	Load Changed Since IMS 08.02.02?
VitalQIP	VitalQIP R7.1 PR2 (patch B158)	VitalQIP R7.2 DNS R4.1 Build 11 ENUM R1.3	Yes

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 08.04.00.

Table 1-2 IMS 08.04.00 solution documentation

Title	Ordering number
<i>IMS Release 08.43.00 Solution Technical Description</i>	275-100-000R08.04.00
<i>IMS Release 08.04.00 Solution Operations, Administration, Maintenance</i>	275-100-001R08.04.00
<i>IMS Release 08.04.00 Solution Release Notes</i>	275-100-004R08.04.00
<i>IMS Release 08.43.00 Interface Changes Specifications</i>	275-100-050R08.04.00
<i>IMS Release 08.43.00 Solution System Parameters</i>	275-100-057R08.04.00
<i>IMS Release 08.43.00 Solution Ports and Protocols</i>	275-100-058R08.04.00
<i>IMS Release 08.43.00 Solution Growth</i>	275-100-059R08.04.00
<i>IMS Release 08.04.00 Solution Provisioning</i>	275-100-060R08.04.00

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 08.04.00.

New features

The following features are included in this release:

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 Generation Workflows
33333.342	RCS 2.0 NLT testing in IMS 8.4

Feature Number	Feature Title
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 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 08.04.00 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)
<i>Feature test on IMS 08.04.00</i>	100%	98.2%	Reached
<i>CPRS test on IMS 08.04.00</i>	100%	96.7%	Reached
<i>Security test on IMS 08.04.00</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

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	Impact Statement/Workaround
ACME 4250	IMS 8.2.2	C5.1.1p29	fixed	ECS / RCS	Subscribe message sent from a user defined as ANONYMOUS is rejected by ACME	<p>Service Impacted: Retrieve the service capabilities of another user with anonymous fetch operation.</p> <p>Consequence: When ACME is used at the access, the anonymous user cannot retrieve the service capabilities supported by another user. For mobile access, ACME is not used and the anonymous user can successfully retrieve the service capability.</p> <p>This issue only concerns fixed access that is using the ACME.</p>
PS/XDMS	IMS 8.2.2	PS 5.0 SP1.2	fixed	ECS	Revoke a contact doesn't work in NNI configuration	<p>Service Impacted: Revoking a user from its contact list when this user is in another IMS network (if user A revokes the Presence Relationship with user B, both users shall no</p>

NE to Lead	Resolve Rls	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement/Workaround
						longer receive any more updates of their Presence Information for a certain period of time specified by User A). Consequence: User A is able to revoke User B however, User A still appears offline in User B's address book.
VitalQIP	IMS8.4	ENUM 7.2	fixed	ECS/ Voip	ENUM error when re-creating an RCA subscriber who has previously been deleted	Impacted service: E2E provisioning. Due to ENUM issue, it's not possible to re-create a user who has been previously deleted.

6 Known issues



Overview

Purpose

This chapter describes NLT-reported issues that remain open in Release 08.04.00.

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 Investigation	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/XDMS	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	Under Investigation	ISCR21.X	Under Investigation	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	Under Investigation	Under Investigation	Under Investigation	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	Under Investigation	Under Investigation	Under Investigation	ECS	XMC 7.0.0.4 not aligned with XDMS 5.0 mib: CrossNetw Proxylet counters missing.	<p>Impacted Service: Management of XDMS by XMC.</p> <p>Impact: Cross Network Proxy counters not monitored on XMC (NNI impact)</p> <p>Workaround: Cross Network Proxy counters are monitored locally on XDMS server.</p>
PS/XDMS	Under Investigation	Under Investigation	Under Investigation	ECS	After crash of agent blade, during restart, 3 minutes of traffic blackout is observed.	<p>Impacted Service: Blackout during Presence/XDMS agents host crash.</p> <p>Impact: When simulating a crash of agent's blades, 3 minutes of traffic blackout is observed during the restart due to the restart of Mysql.</p>

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
PS/XDMS	Under Investigation	Under Investigation	Under Investigation	ECS	During presence S/O on agents host, peak errors are observed during more than 1mn-30 000UE.	<p>Impacted Service: Degraded service during Presence/XDMS agents host switchover.</p> <p>Impact: When agent host is stopped, errors peaks are observed during more than 1 minute. The problem has been observed with Nethawk simulator and around 30,000 users connected.</p> <p>PS/XDMS has objected that the erroneous Nethawk traffic could badly impact the measurements.</p>



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 08.03.01 to IMS 08.04.00. 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 08.04.00 is supported from IMS 08.03.01. Network Elements may require multiple transitions to go from IMS 08.03.01 to IMS 08.04.00; 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



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

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

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 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

V

VoIP

Voice over Internet Protocol

VSG

Voice Signaling Gateway

X

XDMS

XML Document Management Services

XMC

Cross-domain Management Center
