



Alcatel-Lucent

IP MULTIMEDIA SUBSYSTEM RELEASE 08.01.03

SOLUTION EXTERNAL RELEASE NOTES

275-100-
004R08.01.03
DECEMBER 2009
ISSUE 2

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 © 2009 Alcatel-Lucent. All Rights Reserved.

Contents



About this document	v
Purpose.....	v
Reason for revision	v
Intended audience.....	v
Supported systems.....	v
Conventions used	vi
Technical support.....	vi
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	1-5
Document deliverables.....	1-5
To obtain documentation.....	1-5
2 New features	2-1
Overview	2-1
Purpose.....	2-1
New features.....	2-1
Functionality	2-1
Enhancements	2-1
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 08.01.03, 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 08.01.03.

Reason for revision

This is the second issue of the IMS Release 08.01.03 Release Notes document. The following table shows the revision history:

Location	Revision	Issue number	Date of issue
Table 5-2, Table 6-2	Move AR 1-2456309 from Table 5-2 to Table 6-2 until issue is resolved	2	December 2009

Intended audience

The intended audience for this document includes all personnel who need information about the IMS 08.01.03 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 08.01.03.

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 08.01.03 and the documentation deliverables included in this release.

Software deliverables

Table 1-1 lists the loads that comprise Release 08.01.03. New or changed load names are shown in bold-face type.

Table 1-1 Software release identification

Network Element/Application	Load Name in IMS 08.01.01	Load Name in IMS 08.01.03	Load Changed Since IMS 08.01.01?
1300 Cross Management Center (XMC)	R6.2.2.5 Plus 1300 XMC R6.2.2.5 IAP 01	R6.2.2.5 IAP 01 + patches: FIX01 + NEWNE01 (MGC-10) + FIX03 + FIX10 + FIX05 + FIX06 + FIX09 + FIX18 + FIX19 + FIX22 (SDM) Patches must be installed in the listed order	Yes
1310 Operations and Maintenance Console – Provisioning (OMC-P)	OMC-P13_02_00_01	OMC-P13_02_00_01	No
1357 Unified Lawful Intercept Suite (ULIS) Lawful Interception Gateway (LIG)	R12.3.5 ed.2	R12.3.5 ed.2	No
1440 Unified Subscriber Data Server (USDS) (Includes MAS/AHE)	R7.3 SPA: hlr7.3.n04.upd72.01 MAS: ltmasr27-p0207 Then upgrade to: 1440 USDS R7.3 P01 MAS R27 SU2 Patch (ltmasr27-p0214)	R7.3 SPA: hlr7.3.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)	LGP-6-4-0-5-SP-1-2	LGP-6-4-0-8-SP-1	Yes
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
5100 Converged Messaging System (CMS) (AnyPath)	R10SU3 (build SU3: 1000.30.4.2 and later)	R10SU3 (build SU3: 1000.30.4.2 and later)	No
5420 Converged Telephony Server (CTS)	R17.21.01 Then patch to R17.21.01.01	R17.21.01 Then patch to R17.21.01.07	Yes

Network Element/Application	Load Name in IMS 08.01.01	Load Name in IMS 08.01.03	Load Changed Since IMS 08.01.01?
5420 Personal Communication Manager (PCM)	PCM 6.1.1.18 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: 6.1.0.4	PCM 6.1.1.18 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: 6.1.0.4	No
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
5450 IP Session Control (ISC)/ IP Resource Controller (IRC)	R17.21.01 Then patch to R17.21.01.01	R17.21.01 Then patch to R17.21.01.07	Yes
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	MRF6.3.4.5	Yes
7302 Intelligent Services Access Manager (ISAM) -V	ISAM-V-R3.7.00b	ISAM-V-R3.7.00b	No
7510 Media Gateway (MGW)	A7510_R31N_07_05_2009_B06 (also called R3.1 SP2)	R3.1 A7510_R31N_10_09_2009_B08 (also called R3.1 B08)	Yes
7515 Media Gateway (MGW)	7515m2.4B0120	7515m2.4B0120	No
7520 Media Gateway (MGW)	LGP-6-4-0-5-SP-1-2	LGP-6-4-0-8-SP-1	Yes
7750 Service Router	7750_R6.0_R9	7750_R6.0_R9	No
8610 Instant Convergent Charging (ICC)	ICC462-MD02-DR4	ICC462-MD02-DR4	No
8615 Instant enhanced Charging Collection Function (leCCF)	N440 Hardware: leCCF R26SU8 and hotslide0106 MAS-R26SU8 and patch0814 ===== T2000 Hardware: leCCF 27.3 and hotslide0106 MAS R27SU2-p0216	N440 Hardware: leCCF R26SU8 and hotslide0108 MAS-R26SU8 and patch0814 ===== T2000 Hardware: leCCF 27.3 and hotslide0108 MAS R27SU2-p0219	Yes

Network Element/Application	Load Name in IMS 08.01.01	Load Name in IMS 08.01.03	Load Changed Since IMS 08.01.01?
8650 Subscriber Data Manager (SDM) (HSS on ATCA)	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) Plus SDM 2.0.1 IAP002: sdm8650-v2-r4.002.0610-40	SDM2.0.1: sdm8650-v2-r4.002.0520-22 (Distributed) OS6850_6311052R01 (Frontal Router) Radware AS4 (appdirector-as4-1_02_01YA.tar, AppXcel_1_06_00_060509_12-30.bin) (Load Balancer) Plus SDM 2.0.1 IAP003: sdm8650-v2-r4.002.0710-30	Yes
8950 Services Activation Manager (SAM)	15.5.4 (HP) 16.0.2 (Linux)	15.5.4 (HP) 16.0.2 (Linux)	No
Acme Packet Session Director (4250)	C5.1.1p23	C5.1.1p23	No
enhanced Service Manager (eSM)	eSM R26 SU9	eSM R26 SU9	No
Fortinet Fortigate Firewall	v3.0.MR5.8108	v3.0.MR5.8139	Yes
Lucent Control Platform (LCP) (ATCA platform only) Includes: - 5420 CTS - 5450 ISC / IRC - iAGCF	R17.21.01 Then patch to R17.21.01.01	R17.21.01 Then patch to R17.21.01.07	Yes
Lucent Gateway Platform (LGP) Includes: - 5020 MGC - 7520 MGW	LGP-6-4-0-5-SP-1-2	LGP-6-4-0-8-SP-1	Yes
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

How to obtain software

Please contact your Alcatel-Lucent representative to obtain software.

Document deliverables

For Release 08.01.03, this Release Notes document is the only solution document that is being published. For all other solution documents, please use the latest version (Release 08.01.00).

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 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 08.01.03.

New features

There are no solution-level features included in this release.

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 will show the results of the IMS 08.01.03 test program in the final version of this document. 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>Regression</i>	100%	98.5%	Reached
<i>AR Tests</i>	100%	100%	Reached
<i>total</i>	100%	98.7%	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 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 the customer reported ARs that were resolved in the NE loads that are part of this release.

Table 5-1 NLT-reported severity 1 and 2 open issues - resolved

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description
None					

Table 5-2 Customer-reported ARs - resolved in IMS Release 08.01.03

AR	NE	Severity	Fixed in Load	Short Description
1-2353408	8650 SDM	3	R2.0.1 IAP003	SDM Ginstall errors with UTC is not valid Timezone
1-2361451	8650 SDM	3	R2.0.1 IAP003	SDM running cdebuild and necconfig procedure locks out the default linux users
1-2402694	8650 SDM	3	R2.0.1 IAP003	SDM BE/FE - OPERATIONS audit logs do not contain correct details of changed data
1-2406759	8650 SDM	4	R2.0.1 IAP003	SDM BE GUI missing "Observation " from menu
1-2463048	8650 SDM	1	R2.0.1 IAP003	Registration fails without justification
1-2500110	8650 SDM	2	R2.0.1 IAP003	REG/UNREG traffic failed (before 1500)
1-2432502	7510 MGW	1	R3.1 B07a and later	RTP ToS marking KO; linked to IRC ARs 1-2425858, 1-2450493, 1-2451206
1-2395580	7510 MGW	3	R3.1 B08	Loss of snmp V2 trap host configuration after reboot
1-2324758	7510 MGW	4	R3.1 B08	MGAM doesn't work with snmpV3 traps
1-2358944	7510 MGW	2	R3.1 B08	Alarms on 7510
1-2437706 1-2441376	7510 MGW	1	R3.1 B08	MCM boards are not used and should be removed
1-2419554	Fortinet	2	See NOTE*	Fortinet service falls down under "protos suite"
1-2422250	Fortinet	1	See NOTE*	SIP 200OK blocked by Fortinet under protos suite
1-2446335	Fortinet	2	v3.0M5.8139	Crash of firewall SIP function against Protos
1-2423852	5450 ISC	3	17.21.01.07	Restore of ISC failed
1-2434403	5450 ISC	2	17.21.01.07	ISC doesn't interpret the backref from ENUM answer
1-2463169 1-2481519	5450 ISC	2	17.21.01.07	Call SIP to PSTN with Heatbeat option enabled
1-2456399	5450 ISC	2	17.21.01.07	SIP SESSION : P-CSCF overwrites the "Allow" header with a motif
1-2450493 1-2425858 1-2451206	5450 IRC	1	17.21.01.06 and later	S-PDF: RTP tos marking (Linked to 7510 AR 1-2432502)

AR	NE	Severity	Fixed in Load	Short Description
1-2335783	5450 ISC	3	17.21.01.04 and later	Critical Alarm on ISC/CTS -- LSS_SipLinkSetUnavailable
1-2395120	5450 ISC	3	17.21.01.07	5450ISC/5420CTS restore_df MI config failed (Same as AR 1-2423852)
1-2352447	5450 ISC	3	17.21.01.07	MI GUI configuration Data backup time zone issue
1-2459994	5450 ISC	3	17.21.01.03 and later	LCP New User Password Validation must be done from GUI
1-2370271	5420 CTS	3	17.21.01.04 and later	SIM upgrade fails
1-2434754	5450 ISC	1	17.21.01.05 and later	SUBSCRIBE from Presence server gets 403 Forbidden
1-2379629	1300 XMC	2	patch on 6.2.2.5: FIX22 (SDM)	Lost of SDM supervision from XMC
1-2364701	5900 MRF	4	MRF 6.3.4.4 and later	No alarm displayed on XMC when LCM/MFRC SIG link down
1-2247325	5020 MGC8	3	6.4.0.8.SP.1	After upgrading from 6.3.1.2.SP.1 to 6.4.0.2. Plexus appears to be doing a wrong Translation of the calling party number sent from the 5020 MGC-12
1-2402287	8615 leCCF	3	leCCF 27.3 hotslide0108	MAS: WARNING: skipping "sql_features" --- only table or database owner can vacuum it
1-2404822	8615 leCCF	3	leCCF 27.3 hotslide0108	leCCF - TimeStamp in ASrecord CDR field is Description incorrectly encoded, it should be BCD coded

***NOTE:** For Fortinet ARs 1-2419554 and 1-2422250, the document, *Alcatel-Lucent Access Border Solution Planning and Implementation Guide*, 275-900-359R8.1 was modified and Issue 2 was published with the following addition in the Fortinet configuration section:

Disable the Session Helper Function

The session helper is a legacy function in Fortinet that is assigned for SIP protocol by default, but needs to be disabled for the access border configuration.

To disable the default setting for SIP:

```
config system session-helper
```

```
show
```

Note: Confirm that SIP is specified for session-helper number 12; the systemdefault

```
delete 12
```


6 Known issues



Overview

Purpose

This chapter describes NLT-reported issues that remain open in Release 08.01.03.

Known issues and workarounds

As of December 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 6-2 lists the severity 2 issues that remain open and are targeted for a later release.

Table 6-1 NLT-reported severity 2 open issues from IMS 08.01.03

NE to Lead	Resolve RIs	Fixed in Load	Exception Description	Impact Statement / Workaround
ISC	IMS 08.01.05	17.21.01.08 17.26	ISC IMS board memory leak during PS/XDMS traffic and some NOTIFY messages are not sent	Memory leak only occurs during specific SIP SUBSCRIBEs/NOTIFYs to/from the PCSCF. This is atypical of a normal VoIP environment.
CTS	Under Investigation	Under Investigation	Call Transfer with Blind Transfer option failed (IMS 8.1.3).	Call Transfer feature is not working. No workaround, target IMS 8.1.5.

Table 6-2 Customer-reported severity 2 open ARs targeted for later IMS release

AR	NE to Lead	Resolve RIs	Fixed in Load	Exception Description	Impact Statement / Workaround
1-2449029	Fortinet	Under Investigation	Under Investigation	Error of HA configuration on firewall Fortinet	Under investigation. Problem reproduced on build B8139. No performance impact assumed.
1-2456309	Fortinet	Under Investigation	Under Investigation	[Fortinet] Register dropped by firewall.	Not resolved in Fortinet v3.0MR5.8139, pending new patch.



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 08.01.01 to IMS 08.01.03. 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 08.01.03 is supported from IMS 08.01.01. Network Elements may require multiple transitions to go from IMS 08.01.01 to IMS 08.01.03; 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.alcatel-lucent.com/services/ims/>, 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



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
