Alcatel-Lucent

IP MULTIMEDIA SUBSYSTEM RELEASE 08.01.05

SOLUTION EXTERNAL RELEASE NOTES

Legal Notice

Contents

About this document

Purpose

The purpose of this document is to provide a general overview of the IP Multimedia Subsystem (IMS) Release 08.01.05, 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 08.01.05.

Reason for revision

This is the first issue of the IMS Release 08.01.05 Release Notes document.

Intended audience

The intended audience for this document includes all personnel who need information about the IMS 08.01.05 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 08.01.05.

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).

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1 Release components

Overview

Purpose

This chapter describes the software loads that comprise Release 08.01.05 and the documentation deliverables included in this release.

Software deliverables

Table 1-1 lists the loads that comprise Release 08.01.05. New or changed load names are shown in bold-face type.

Table 1-1 Software release identification

Network Element/Application	Load Name in IMS 08.01.03	Load Name in IMS 08.01.05	Load Changed Since IMS 08.01.03?
1300 Cross Management Center (XMC)	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	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	No
1310 Operations and Maintenance – Plus (OMC-P)	OMC-P13_02_00_01	**OMC-P13_02_00_02**	**Yes**
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-6-4-0-8-SP-1	**LGP-6-4-0-11**	**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 R17.21.01.07	**R17.21.01** **Then patch to R17.21.01.11**	**Yes**

Network Element/Application	Load Name in IMS 08.01.03	Load Name in IMS 08.01.05	Load Changed Since IMS 08.01.03?
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)	R17.21.01 Then patch to R17.21.01.07	**R17.21.01** **Then patch to R17.21.01.11**	**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)	MRF6.3.4.5	MRF6.3.4.5	No
7302 Intelligent Services Access Manager (ISAM)-V	ISAM-V-R3.7.00b	ISAM-V-R3.7.00b	No
7510 Media Gateway (MGW)	R3.1 A7510_R31N_10_09_2009_B08 (also called R3.1 B08)	R3.1 A7510_R31N_10_09_2009_B08 (also called R3.1 B08)	No
7515 Media Gateway (MGW)	7515m2.4B0120	7515m2.4B0120	No
7520 Media Gateway (MGW)	LGP-6-4-0-8-SP-1	**LGP-6-4-0-11**	**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 (IeCCF)	N440 Hardware: IeCCF R26SU8 and hotslide0108 MAS-R26SU8 and patch0814 ============= T2000 Hardware: IeCCF 27.3 and hotslide0108 MAS R27SU2-p0219	N440 Hardware: IeCCF R26SU8 and hotslide0108 MAS-R26SU8 and patch0814 ============= T2000 Hardware: IeCCF 27.3 and hotslide0108 MAS R27SU2-p0219	No

Network Element/Application	Load Name in IMS 08.01.03	Load Name in IMS 08.01.05	Load Changed Since IMS 08.01.03?
8650 Subscriber Data Manager (SDM) (HSS on ATCA)	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	**SDM2.0.1: sdm8650-v2-r4.002.0520-22 (Distributed)** **sdm8650-small-compact-v2-r4.002.0520-22** **OS6850_6311052R01 (Frontal Router)** **Radware AS4 (appdirector-as4-1_02_01YA.tar, AppXcel_1_06_00_060509_12-30.bin) (Load Balancer – Distributed only)** **Plus SDM 2.0.1 IAP004: sdm8650-v2-r4.002.0720-30 (Distributed)** **sdm8650-small-compact-v2-r4.002.0720-30 (Compact)**	**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	**C6.1m2p7 (Build 511)**	**Yes**
enhanced Service Manager (eSM)	eSM R26 SU9	eSM R26 SU9	No
Fortinet Fortigate Firewall	v3.0.MR5.8139	**v3.0.MR5.8147**	**Yes**
Linux Control Platform (Linux CP) (ATCA platform only) **Includes:** **- 5420 CTS** **- 5450 ISC** **- iAGCF**	R17.21.01 Then patch to R17.21.01.01	**R17.21.01** **Then patch to R17.21.01.11**	**Yes**
Lucent Gateway Platform (LGP) **Includes:** **- 5020 MGC** **- 7520 MGW**	LGP-6-4-0-8-SP-1	**LGP-6-4-0-11**	**Yes**
OXE OmniPCX Enterprise	R9.0	R9.0	No
Plexus Billing and Traffic System (BTS)	BTS-6.4.1.0.15	**BTS-6.4.1.0.53**	**Yes**
VitalQIP	VitalQIP R7.1 DNS R4.0 Build 23 ENUM R1.2 Build2 VQIP eSM ISR: USDS-04.01.70.06 (only VQIP200 file)	**VitalQIP R7.1** **DNS R4.0 Build 23** **ENUM R1.2 Build3** **VQIP eSM ISR: USDS-04.01.70.06 (only VQIP200 file)**	**Yes**

How to obtain software

Please contact your Alcatel-Lucent representative to obtain software.

Document deliverables

For Release 08.01.05, 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 08.01.05.

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 08.01.05 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)
Upgrades	100%	98%	Reached
End-to-End Tests (regression, ARs)	100%	95%	Reached
IMS 08.01.05 total	**100%**	**96%**	**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

The following document describes the northbound interface changes for the 8650 SDM:

- *8650 SDM R2.0.1 IAP004 Delivery Notes*, 3BL488900004RJZZAED02

You can also refer to the following solution-level document for 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 lists the NLT- reported problems and software-related customer-reported ARs escalated to NLT that are resolved in 08.01.05.

Table 5-1 lists the NLT issues that were resolved in the loads that are part of this release. Table 5-2 lists the customer-reported ARs that were resolved in the NE loads that are part of this release.

Table 5-1 NLT-reported problems resolved in IMS Release 08.01.05

NE	Fixed in Load	Abstract	Resolution
CTS	See Resolution	Call Transfer with Blind Transfer option failed (IMS 8.1.3)	Known Sev2 open in IMS 8.1.3 cannot be reproduced in IMS 8.1.5, CTS 17.21.01.11
ISC	17.21.01.09 17.21.01.10 17.21.01.11	ISC IMS board memory leak during PS/XDMS traffic and some NOTIFY messages are not sent	SW fixed, verified in R17.21.01.09
ISC	17.21.01.11	QD NLT Lab patching issue from R17.21.01.07 to R17.21.01.10	SW fixed, verified in R17.21.01.11
Fortinet	v3.00 MR5.8147	QD_NLT: Fortigate drop INVITE which has FQDN in SDP o line	SW fixed, verified in v3.00 MR5.8147

Table 5-2 Customer-reported ARs – resolved in IMS Release 08.01.05

AR	NE	Severity	Fixed in Load	Short Description
1-2509980	1310 OMC-P	2	13_02_00_02	OAM - OMC-P - Backup : Backup of 5450 from OMC-P (error during backup)
1-2510008	1310 OMC-P	2	13_02_00_02	OAM - OMC-P - Backup : Backup of 5450 from OMC-P (can't do several backups on the same plexview session)
1-236888	5020 MGC8	3	LGP-6-4-0-11	MGC-8, ED-DIGITMOD-DN commands are rejected (Also upgrade to be in line with 7520 MGW 6.4.0.11)
1-2523174	5450 ISC	3	17.21.01.10 17.21.01.11	Long name in PNAPTR is cut off
1-2451886	5450 ISC	3	17.21.01.10 17.21.01.11	ISC/CTS Modify/delete scheduled backup is not removing old entries made by create backup job
1-2439855	8650 SDM	2	R2.0.1 IAP004	Digest to Early IMS configuration not possible
1-2475415	8650 SDM	2	R2.0.1 IAP004	Wrong Diameter message (RTR instead of PPR) sent by the HSS after deletion of an IMPU of an IRSET
1-2514196	8650 SDM	2	R2.0.1 IAP004	MAR procedure: New S-CSCF name not stored in the IRSET display in the HSS
1-2507693	8650 SDM	4	R2.0.1 IAP004	Wrong Deregistration Reason in case of Default IMPU change in an IRSET
1-2449029	Fortinet	2	v3.0MR5.8143 v3.0MR5.8147	Error of HA configuration on firewall Fortinet
1-2456309	Fortinet	2	v3.0MR5.8143 v3.0MR5.8147	[Fortinet] Register dropped by firewall
1-2456994	5450 ISC	2	Documentation	[access] PCSCF not compliant with section 5.2.6.3 of TS24229v7.10.0
1-2458500	5450 ISC	2	Documentation	[access] PCSCF not compliant with section 5.2.6.3 of TS24229v7.10.0
1-2434079	8650 SDM	1	Documentation	SDM loss of control - Maintenance guide

AR	NE	Severity	Fixed in Load	Short Description
1-2459304	8650 SDM	1	Documentation	Adding a new s-CSCF; CER/CEA fails
1-2468857	8650 SDM	3	Documentation	Too many errors in log files
1-2507829	8650 SDM	3	Documentation	OAM - 8650 SDM - Security administration : documentation modification of the user profile deletion
1-2526039	7510 MGW	2	Documentation	OAM - 7510 - Log Management - Several CLI Commands (R3.1) are not applicable to the NE 7510 (R31N_07_05_2009_B07)

6   Known issues

Overview

Purpose

This chapter describes NLT-reported issues that remain open in Release 08.01.05.

Known issues and workarounds

All severity 1 software issues have been resolved in the network element loads that are part of this release.

Table 6-1 lists the severity 2 software issues that were not resolved in the network element loads that are part of this release. Table 6-2 lists the severity 2 software issues that are targeted for a later IMS release.

Table 6-1 NLT-reported severity 2 open issues from IMS 08.01.05

NE	Resolve Rls	Fixed in Load	Abstract	Impact Statement / Workaround
OMC-P-LCP	Under Investigation	14.3	No alarm report when cards are pulled out from ISC	SW targeted for OMC-P 14.3 Workaround - XMC can be used to see this alarm
ISC	Under Investigation	Under Investigation	QD_NLT: S-CSCF de-registers the UE since P-CSCF suppressed UE's re-register	If registration suppression is set to >600 sec, there is a risk that S-CSCF will de-register the UE. No call could be made or received by the UE until it registers again. Workaround - set registration suppression interval to <600.

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

AR	NE	Resolve Rls	Fixed in Load	Abstract	Impact Statement / Workaround
1-2510643	VitalQIP	Not Applicable	ENUM R1.2 Build 3 Patch	Enum WSDL not compliant with SOAP 1.1	ENUM R2.1 Build3 patch is customer specific and will be tested in customer environment. No additional end to end testing is needed for this fix. The patch was applied and basic sanity tested in NLT.

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 08.01.03 to IMS 08.01.05. 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 08.01.05 is supported from IMS 08.01.0. Network Elements may require multiple transitions to go from IMS 08.01.03 to IMS 08.01.05; refer to the specific NE documentation for further details.

Security hardening

Security hardening procedures and information for IMS Release 08.01.00 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

IeCCF
Instant enhanced Charging Collection Function

IMS
IP Multimedia System

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