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IP MULTIMEDIA SUBSYSTEM RELEASE 08.01.00

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 08.01.00, 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 08.01.00.

Reason for revision

This is the third issue of the IMS Release 08.01.00 Release Notes document. The following table shows the revision history:

Location	Revision	Issue number	Date of issue
1-2	Updated load number for 5420 CTS	1.1	June 2009
1-3	Updated load number for 5450 ISC/IRC	1.1	June 2009
1-3	Updated load number for 8650 SDM	1.1	June 2009
1-4	Updated load number for LCP	1.1	June 2009
1-4	Added footnote explanation of RTM unavailability	1.2	July 2009

Intended audience

The intended audience for this document includes all personnel who need information about the IMS 08.01.00 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 08.01.00.

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 Online Customer Support Site (OLCS) web site (<https://support.alcatel-lucent.com>).

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1 Release components

Overview

Purpose

This chapter describes the loads that comprise Release 08.01.00 and the documentation deliverables included in this release.

Software deliverables

Table 1-1 lists the loads that comprise Release 08.01.00.

Table 1-1 Software release identification

Network Element/Application	Load Name in IMS 08.00.01	Load Name in IMS 08.01.00	Load Changed Since IMS 08.00.01?
1300 Cross Management Center (XMC)	R6.2.2.2	R6.2.2.5 Plus 1300 XMC R6.2.2.5 IAP 01	Yes
1310 Operations and Maintenance Console – Provisioning (OMC-P)	OMC-P-13.0.1	OMC-P13_02_00_00	Yes
1357 Unified Lawful Intercept Suite (ULIS) Lawful Interception Gateway (LIG)	R12.3.5	R12.3.5 ed.2	Yes
1440 Unified Subscriber Data Server (USDS) (Includes MAS/AHE)	R7.3 SPA: h1r7.3.n04.upd72.01 MAS: ltmarsr27-p0207	R7.3 SPA: h1r7.3.n04.upd72.01 MAS: ltmarsr27-p0207	No
5020 Media Gateway Controller – 8 (MGC-8)	LGP-6-4-0-2	LGP-6-4-0-5-SP-1-2	Yes
5020 Media Gateway Controller – 12 (MGC-12)	MGCSX30	- 5020 MGC NRSX30 NGVI SP3 (SW Build w912) - A1300 CMC218 12R16 (for use with A7510 MGW B14E)	Yes
5100 Converged Messaging System (CMS) (AnyPath)	CMS-1000.1.5.3	R10SU3	No
5420 Converged Telephony Server (CTS)	R17.15.00.04	R17.18.00.00 Then apply R17.18.00.06	Yes
5420 Personal Communication Manager (PCM)	PCM_R1_0_1_588 Platform: - 5400 R1.2 Patch: - 5400 R1.2.2 - 5400 R1.2.2.1 TP: 3.1.0.6	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	Yes
5440 IMS-PC Client	5440_PCC_r3.1.0.2203 (PCM)	5440_PCC_r3.1.0.2269 (PCM)	Yes
5450 Access Gateway Control Function (AGCF)	AGCF-5-1-0R1S3 then AGCF-5-1-0R1S3P1	AGCF-5-1-1 R1S3 Then patch to AGCF511R1S3P1	Yes

Network Element/Application	Load Name in IMS 08.00.01	Load Name in IMS 08.01.00	Load Changed Since IMS 08.00.01?
5450 IP Session Control (ISC)/ IP Resource Controller (IRC)	R17.15.00.04	R17.18.00.00 Then apply R17.18.00.06	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)	R6.3.1 plus patches 6245, 6299, 6430, 6441, 7881	MRF6.3.4.1	Yes
7302 Intelligent Services Access Manager (ISAM) -V	ISAM-V-R36-112	ISAM-V-R3.7.00b	Yes
7510 Media Gateway (MGW)	7510 R3.0 B11b	7510 R3.0_B14e	Yes
7515 Media Gateway (MGW)	N/A	7515m2.4B0120	Yes
7520 Media Gateway (MGW)	LGP-6-4-0-2	LGP-6-4-0-5-SP-1-2	Yes
7750 Service Router	R5.0R11	7750_R6.0_R9	Yes
8610 Instant Convergent Charging (ICC)	4.5.2-02, HFRs label ICCGENR452-02-EWS-HF810	ICC462-MD02-DR4	Yes
8615 Instant enhanced Charging Collection Function (leCCF)	N440 Hardware: leCCF R26SU8 and hotslide0101 MAS-R26SU8 and patch0809 ===== T2000 Hardware: leCCF 27.3 and hotslide0101 MAS R27SU2-p0209	N440 Hardware: leCCF R26SU8 and hotslide0104 MAS-R26SU8 and patch0810 ===== T2000 Hardware: leCCF 27.3 and hotslide0104 MAS R27SU2-p0210	Yes
8650 Subscriber Data Manager (SDM) (HSS on ATCA)	NE direct load (Contact 8950 SDM Product Team): SDM2.0.1 NLT tested with SDM2.0: sdm8650-v2-r4.002.0400-11 Plus: IAP 8650SDMR2.00.D04.01.N01.IAP004 Note: IMS NLT tested the Distributed configuration 6850 OmniSwitch 6.3.1.1052.R01 appdirector-as4-1_02_01	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)	Yes
8950 Services Activation Manager (SAM)	SAM 16.0.1	Will be updated by DR5	No
Acme Packet Session Director (4250)	C5.1.1p17	C5.1.1p23	Yes

Network Element/Application	Load Name in IMS 08.00.01	Load Name in IMS 08.01.00	Load Changed Since IMS 08.00.01?
enhanced Service Manager (eSM)	eSM R26SU8 (apply the patches sequentially after the base load is installed) PA-RISC - eSM-01.26.08.PA Itanium - eSM-01.26.08.IA eSM R26SU8 P1 eSM R26SU8 P2	eSM R26 SU9	Yes
Fortinet Fortigate Firewall	FGT_5005FA2-v300-build8094-mr5	v3.0.MR5.8108 Note: NLT tested in routed mode.	Yes
Lucent Control Platform (LCP) (ATCA platform only) Includes: - 5420 CTS - 5450 ISC / IRC - iAGCF	R17.15.00.04	R17.18.00.00 Then apply R17.18.00.06¹	Yes
Lucent Gateway Platform (LGP) Includes: - 5020 MGC - 7520 MGW	LGP-6-4-0-2	LGP-6-4-0-5-SP-1-2	Yes
OXE OmniPCX Enterprise	N/A	R9.0	New
Plexus Billing and Traffic System (BTS)	BTS_6.4.0.0.47	BTS-6.4.1.0.15	Yes
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
Westell TriLink™ IMS Gateway 6358	Westell_RBGW-02.00.03.02, sw2.0055.17	Trilink-B90/SW.02.00.04/sw2.0055.27	Yes

¹ Ports on the Rear Transmission Module are not available in this release, but will be available in the LCP release for the IMS solution at General Availability. The solution verification did not include the Rear Transmission Module.

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 08.01.00.

Table 1-2 IMS 08.01.00 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, & Provisioning</i>	275-100-001R08.01.00
<i>IMS Release 08.01.00 Solution Release Notes</i>	275-100-004R08.01.00
<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.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 08.01.00.

New features

The following features are included in this release:

Table 2-1 Features released in 08.01.00

Feature Number	Feature Title
33333.48	R7 Rf Interface Alignment to 3GPP R7 for Offline Charging
33333.76	PSTN Emulation Services with External AGCF for Distributed IMS
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 08.01.00 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>cVoIP Solution</i>	100%	97%	Reached
<i>PES Solution</i>	100%	96%	Reached
<i>total</i>	100%	97%	



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 documents describe the Northbound interface changes for the 5450 ISC:

- *Alcatel-Lucent Control Platform 1800/1000/5400 Release 17.1 Charging Interface Specification, 275-900-393R17.1* (See chapters 4 and 5)
- *Alcatel-Lucent Control Platform 1800/5400 IMS 7.0 – IMS 7.4-8.1 Alarm, Performance Measurement and MIB Release Differences, 270-900-878R17.1* (See chapter 3)
- *Lucent Control Platform R17.18.00.04 External Release Notes, 275-900-312R17.18.00.04*

The following document describes the Northbound interface changes for the 5100 CMS:

- *AnyPath® Messaging System Release 10 Documentation, 270-715-123 (See chapter 3)*

The following document describes the Northbound interface changes for the BTS:

- *Alcatel-Lucent Gateway Platform Release 6.4.1.0.15 Billing and Traffic System (BTS) Release Notes, 25-400-404R6.4.1.0.15 (see Appendix A)*

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

The following document describes the alarm changes for the 5450 ISC:

- *Alcatel-Lucent Control Platform 1800/5400 IMS 7.0 – IMS 7.4-8.1 Alarm, Performance Measurement and MIB Release Differences, 270-900-878R17.1 (See chapter 3)*

Message changes

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

Port changes

The following document describes the port changes for the 5100 CMS:

- *AnyPath® Messaging System Release 10 Documentation, 270-715-123 (See chapter 3)*

Protocol changes

The following document describes the protocol changes for the 5100 CMS:

- *AnyPath® Messaging System Release 10 Documentation*, 270-715-123 (See chapter 3)

System parameter changes

The following document describes the system parameter changes for the 1440 USDS:

- *1440 Unified Subscriber Data Server (USDS) Release 7.3 Data and Provisioning Guide - HSS*, 270-710-923R7.3 (See chapter 2)

The following document describes the system parameter changes for the 5100 CMS:

- *AnyPath® Messaging System Release 10 Documentation*, 270-715-123 (See chapter 3)



5 Resolved issues

Overview

Purpose

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

Since this is the first release of IMS 08.01.00, this chapter does not apply to this release.

Resolved issues

This section does not apply to this release.

6 Known issues



Overview

Purpose

This chapter describes NLT-reported issues that remain open in Release 08.01.00.

Known issues and workarounds

As of May 2009, no 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 08.01.00

NE to Lead	Resolve Rls	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
USDS	tbd	tbd	under investigation	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.
OXE	IMS8.3	H1.301.30	targeted for load H1.301.30 6/15/09	bvoip	OXE fails to recognize incoming ext. gateway for PSTN to PBX with no ENUM.	Incoming calls from PSTN to OXE IP PBX subscriber require an ENUM server to succeed.
5100 CMS	IMS7.4, ICS1.1	tbd	under investigation	cvoip	RTP fails between AnyPath and subscriber when Outcall feature used.	A Voice Message is retrieved from the subscriber and tries to establish a call with the caller that left the message using the 88 code on CMS. The call signaling works fine and the call is established but only the initial subscriber hears any voice. The party that AnyPath transferred to does not hear anything.
leCCF	IMS8.1.1	R26SU8/27.3 HS0106	On track for 6/15/09	core	RfV7 is not fully supported from a capacity perspective.	leCCF capacity is de-rated when running v7.
OMC-P-LGP	IMS8.3	14	On track end of June	core	OMC-P does not reflect the correct status of SPs during the SYNCHUP after s/o.	The CFT has no information indicating the OM-P is synching.
1357 ULIS	tbd	tbd	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.

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
8650 SDM	IMS8.1.1	tbd	under investigation	pstn, sub_provision	SDM GUI PRSET form unresponsive with large number of PrsetEndPointImpi Entries.	Unable to query the PRSET data from the SDM GUI when the PRSET table is provisioned with a large number of entries in the PrsetEndPointImpi for each PRSET entry. The GUI will not query with 25 PRSET entries that each have 5000 PrsetEndPointImpi entries.



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
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 08.00.01 to IMS 08.01.00. 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 08.01.00 is supported from IMS 08.00.01. Network Elements may require multiple transitions to go from IMS 08.00.01 to IMS 08.01.00; 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.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



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

R

RTM
Rear Transmission Module

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
