



Alcatel-Lucent

INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS) SOLUTION
08.00.00

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 08.00.00, 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 08.00.00.

Reason for reissue

This is the first issue of the IMS Release 08.00.00 Release Notes.

Intended audience

The intended audience for this document includes all personnel who need information about the IMS 08.00.00 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 08.00.00.

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.lucent.com>).

How to comment

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



1 Release components

Overview

Purpose

This chapter describes the loads that comprise Release 08.00.00 and the documentation deliverables included in this release.

Software deliverables

Table 1-1 lists the loads that comprise Release 08.00.00.

Table 1-1 Software release identification

Network Element/Application	Load Name
1300 Cross Management Center (XMC)	R6.2.2.2
1357 Unified Lawful Intercept Suite (ULIS)	12.3.5
5020 MGC-8	LGP-6-4-0-2
5100 CMS	CMS-1000.1.5.3
5420 Converged Telephony Server (CTS)	R17.15.00.00 then immediately apply Patch 17.15.00.03
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
5440 IMS – PC Client	5440_PCC_ r3.1.0.2209 (PCM) TP: 3.1.0.6
5450 IP Session Control (ISC)	R17.15.00.00 then immediately apply Patch 17.15.00.03
5750 Subscriber Services Controller (SSC)	SSC 3.1R5 and SAC/CLF 3.1R5

5900 Media Resource Function (MRF)	R6.3.1 plus patches 6245, 6299, 6430, 6441, 7881
7510 Media Gateway (MGW)	7510 R3.0 B11b
7520 Media Gateway (MGW)	LGP-6-4-0-2
7750 Service Router	R5.0R11
8615 Instant enhanced Charging Collection Function (IeCCF)	N440 Hardware: IeCCF R26SU8 and hotslide0101 MAS-R26SU8 and patch0809 T2000 Hardware: IeCCF 27.3 and hotslide0101 MASR27SU2-p0209
8650 Subscriber Data Manager (SDM) (HSS on ATCA)	sdm8650-v2-r4.002.0340-10 ¹
Acme Packet Session Director (4250)	C5.1.1p17
Fortinet Fortigate Firewall	FGT_5005FA2-v300-build153-FORTINET
Lucent Control Platform (LCP) (ATCA platform only) includes: - 5420 Converged Telephony Server (CTS) - 5450 IP Session Control/Resource Control (ISC/IRC)	R17.15.00.00 then immediately apply Patch 17.15.00.03
Lucent Gateway Platform (LGP) includes: - 5020 MGC - 7520 MGW	LGP-6-4-0-2
OMC-P	OMC-P-13.0.1

¹ NLT tested the Compact-small configuration.

Plexus BTS	BTS_6.4.0.0.47
VitalQIP	VitalQIP 7.1 DNS R4.0 Build 23 ENUM R1.2 VQIP eSM ISR: USDS-04.01.70.06 (only VQIP200 file)
Westell TriLink™ IMS Gateway Model 6358	Westell_RGBW-02.00.03.02, sw2.0055.17

How to obtain software

Please contact your Alcatel-Lucent representative to obtain software.

Document deliverables

Table 1-3 shows the solution documentation available for IMS 08.00.00.

Table 1-3 IMS 08.00.00 solution documentation

Title	Ordering number
<i>IMS Release 08.00.00 Solution Technical Description</i>	275-100-000R08.00.00
<i>IMS Release 08.00.00 Solution Operations, Administration, Maintenance, & Provisioning</i>	275-100-001R08.00.00
<i>IMS Solution Release 08.00.00 Release Notes</i>	275-100-004R08.00.00
<i>IMS Release 08.00.00 Interface Changes Specifications</i>	275-100-050R08.00.00
<i>IMS Release 08.00.00 Solution System Parameters</i>	275-100-057R08.00.00

Title	Ordering number
(scheduled availability 30 January 2009)	
<i>IMS Release 08.00.00 Solution Growth</i>	275-100-059R08.00.00
<i>IMS Release 08.00.00 Solution Ports and Protocols</i> (scheduled availability 30 January 2009)	275-100-058R08.00.00

NOTE: The Solution Software Upgrade document is not available for this release since IMS 08.00.00 does not support solution upgrade paths from any previous IMS release.

See the next section, “To obtain documentation”, for detailed information on how to obtain IMS Solution documentation.

To obtain documentation

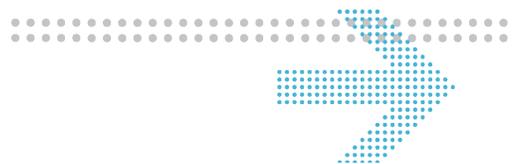
IMS Solution and product documentation is available to IMS Solution customers through OnLine Customer Support (OLCS).

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 08.00.00.

New features

Table 2-1 shows the new features in Release 08.00.00.

Table 2-1 New features

Feature Number	Feature Title
33333.132	IMS 8.0 VoIP with aTCA platform

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 08.00.00 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%	96%	Reached
<i>total</i>	100%	96%	



4 Changes to interfaces, alarms, and messages

Overview

Purpose

This chapter describes changes to interfaces, alarms, and messages in this release.

Interface changes

Changes to Northbound Interfaces

The following solution-level document describes the interface changes for IMS 08.00.00 Network Elements:

- *IP Multimedia Subsystem Release 08.00.00 Solution Interface Changes Specifications, 275-100-050R08.00.00*

Changes to Southbound Interfaces

There are no 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.



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 severity 1 and 2 issues that were resolved in the loads that are part of this release. Since this is the initial release of IMS Release 08.00.00, there are no resolved issues.

6 Known issues



Overview

Purpose

This chapter describes NLT-reported issues that remain open in Release 08.00.00.

Known issues and workarounds

As of December 18, 2008, no customer-reported ARs have been opened against this release.

Table 6-1 lists the severity 2 issues that were not resolved in the loads that are part of this release.

Table 6-1 NLT-Reported severity 2 open issues from IMS 08.00.00

NE to Lead	Resolve Rls	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
ISC	IMS8.1	under investigation	under investigation	cVoIP	If the site has subscriber notify and 407 challenge enabled at the same time, calls will start generation errors.	Site cannot run subscriber_notify and 407proxy_auth at the same time.
ISC	IMS8.0.1	R17.15.00.04	on track for 8.0.1	cVoIP	If a DNS host goes down in the ISC craft is not notified.	The first host can go down without notification. The fix provides a major alarm to notify the craft.
MGC-8	IMS8.1	LGP-6.4.0.4.2	on track for 8.1	cVoIP	SIPA process crashes during UE to PSTN call loads involving SIP over TCP.	SIP over TCP to the MGCF will not work. Workaround add "transport=udp" on the BGCF Target URIs.
Fortinet FW	IMS8.1	under investigation	under investigation	cVoIP	The Fortinet (SFW) rejects valid INVITE messages in Tel Uri format.	Can not send Tel Uri thru the Fortinet firewall.
5420 PCM	IMS8.1	under investigation	under investigation	cVoIP	N way conference can only be established up to 3 -way when using PCM/PC Client.	Site limited to 3-way call with PCM/PCC.



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: FS GUI (5420 CTS, 5450 ISC), OMC-P (Plexview), 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

Hardware requirements

Specific hardware requirements are addressed by the network element level release notes and documentation. Note that IMS 08.00.00 introduces new ATCA platforms for 5420 CTS, 5450 ISC/IRC, and 8650 SDM.

Compatibility restrictions

Solution level upgrade to IMS 08.00.00 is not supported. IMS 08.00.00 introduces new ATCA platforms for 5420 CTS, 5450 ISC/IRC, and 8650 SDM. This release is for new installations only. IMS 08.00.00 does not support solution upgrade paths from any previous IMS release.



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/paths

Solution level upgrade to IMS 08.00.00 is not supported. IMS 08.00.00 introduces new ATCA platforms for 5420 CTS, 5450 ISC/IRC, and 8650 SDM. This release is for new installations only. IMS 08.00.00 does not support solution upgrade paths from any previous IMS release.

Security hardening

IMS Release 08.00.00 sites should continue to use the IMS Release 07.00.00 Network Element security hardening procedures and related information on OLCS at: <https://services.support.lucent.com/services/>. Click on IMS Solutions, then click on Security Hardening IMS Release 07.00.00, finally click on each NE for security hardening details.

Acronym List



A

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

F

FS

Feature Server

G

GUI

Graphical User Interface

H

HSS

Home Subscriber Server

I

IeCCF
Instant enhanced Charging Collection Function

IMS
IP Multimedia System

IRC
IP Resource Control

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 Center – Plexus

P

PCM
Personal Communication Manager

PSTN
Public Switched Telephony Network

S

SDM
Subscriber Data Manager

SSC
Subscriber Services Controller

U

ULIS
Unified Lawful Intercept Suite

V

VoIP
Voice over Internet Protocol

X

XMC
Cross-domain Management Center
