



Alcatel-Lucent

IP MULTIMEDIA SUBSYSTEM RELEASE 07.05.02

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 07.05.02, 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 07.05.02.

Reason for revision

This is the first issue of the IMS Release 07.05.02 Release Notes.

Intended audience

The intended audience for this document includes all personnel who need information about the IMS 07.05.02 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 07.05.02.

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>).

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 loads that comprise Release 07.05.02 and the documentation deliverables included in this release.

Software deliverables

Table 1-1 lists the loads that comprise IMS Release 07.05.02. Changes are shown in bold text.

Table 1-1 Software release identification

Network Element/Application	Load Name in IMS 07.05.01	Load Name in IMS 07.05.02	Load Changed Since IMS 07.05.01?
1300 Cross Management Center (XMC)	R6.2.2.5 Then patch to R6.2.2-P01 Then patch to R6.2.2-N08	R6.2.2.5 Then patch to R6.2.2-P01 Then patch to R6.2.2-N08	No
1310 Operations and Maintenance Center – Plexview (OMC-P)	OMC-P_13_02_00_01	OMC-P_13_02_00_01	No
1440 Unified System Data Server (USDS) (includes MAS/AHE)	USDS: hlr7.3n04.01 MAS: ltmshr27 (R27SU2) – b0102 MAS: ltmshr27 (R27SU2) – 0201 MAS: ltmshr27 (R27SU2) – p0210	USDS: hlr7.3n04.01 MAS: ltmshr27 (R27SU2) – b0102 MAS: ltmshr27 (R27SU2) – 0201 MAS: ltmshr27 (R27SU2) – p0210	No
5410 Presence Server (PS) 5410 SML Document Management Server (XDMS)	5.0 SP1.2 Hp	5.0 SP2.1 Hp	Yes
5420 Converged Telephony Server (CTS)	R17.21.00.00 Then patch to R17.21.01.00 Then patch to R17.21.01.01	R17.21.01.09	Yes
5420 Voice Call Continuity(VCC) server	VCC V8.0.2R21 JP 1.3.6	VCC V8.0.2R22 JP 1.3.7	Yes
5440 IMS-PC Client	5440_PCC_r4.0.0_v2315_nonPCM	5440_PCC_r4.0.0_v2315_nonPCM	No
5450 IP Session Control (ISC)/ IP Resource Controller (IRC)	R17.21.00.00 Then patch to R17.21.01.00 Then patch to R17.21.01.01	R17.21.01.09	Yes
5900 Media Resource Function (MRF)	MRF6.3.4.1	MRF6.3.4.1	No

Network Element/Application	Load Name in IMS 07.05.01	Load Name in IMS 07.05.02	Load Changed Since IMS 07.05.01?
7510 Media Gateway (MGW)	R31N_05_06_2009_M 1050609 (R3.1 SP2 CI) A7510_R31N_07_05_2 009_B06 (7510 MGW R3.1SP2)	R31N_05_06_2009_M 1050609 (R3.1 SP2 CI) A7510_R31N_07_05_2 009_B06 (7510 MGW R3.1SP2)	No
8615 Instant enhanced Charging Collection Function (leCCF)	N440 Hardware: leCCF R26SU8 and hotslide0106 MAS_ltmars26-p0814	N440 Hardware: leCCF R26SU8 and hotslide0106 MAS_ltmars26-p0814 T2000 Hardware: leCCF 27SU3 and hotslide 0108 MAS-R26SU8 and patch0814. (Delivered in IMS8.01.03.)	Yes
Acme Packet Session Director (4250)	C5.1.1p29	C5.1.1p29	No
Fortinet Fortigate Firewall	v3.0.MR5.8133	v3.0.MR5.8133	No
VitalQIP	VitalQIP R7.1 PR2 (patch B158)	VitalQIP R7.1 PR2 (patch B158)	No

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 07.05.02.

Title	Ordering number
<i>IMS Release 07.05.00 Solution Technical Description</i>	275-100-000R07.05.00
<i>IMS Release 07.05.00 Solution Operations, Administration, Maintenance, & Provisioning</i>	275-100-001R07.05.00
<i>IMS Release 07.05.02 Solution Release Notes</i>	275-100-004R07.05.02
<i>IMS Release 07.04.00 Software Upgrade</i>	275-100-035R07.04.00
<i>IMS Release 07.05.00 Interface Changes Specifications</i>	275-100-050R07.05.00

Title	Ordering number
<i>IMS Release 07.05.00 Solution System Parameters</i>	275-100-057R07.05.00
<i>IMS Release 07.05.00 Solution Ports and Protocols</i>	275-100-058R07.05.00
<i>IMS Release 07.05.00 Solution Growth</i>	275-100-059R07.05.00

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 07.05.02.

New features

The following features are included in this release:

Table 2-1 Features released in 07.05.02

Feature Number	Feature Title
33333.207	NLT Support for RCS 1.0 IOT Testing in IMS 7.5 (CPSB)
33333.215	IMS Solution Level Software Upgrade Development & Test for IMS 7.1 to IMS 7.5 Software Upgrade Path
33333.231	E2E testing VCC 8.0.2 for IMS 7.5
33333.235	CPRS testing of VCC 8.0.2 with IMS 7.5
33333.243	Test of NNI interface for XDMS 5.0 in IMS 8.2
33333.255	RCS 1.0 Testing of Tri-Op Functions
33333.259	AKA/Ipsec testing with 1440 USDS in IMS 7.5
33333.263	CPRS Testing of PS/XDMS5.0 on HP Platform in IMS 7.5/IMS 8.2
33333.264	E2E testing of 7510 in bearer path for Video Sessions in IMS 7.5

Feature Number	Feature Title
33333.302	IMS 7.5 O&M End to End Testing

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 07.05.02 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>RCS Feature test on IMS 07.05.00</i>	100%	98.3%	Reached
<i>VCC Feature test on IMS 07.05.00</i>	100%	100%	Reached
<i>VCC CPRS test on IMS 07.05.01</i>	100%	100%	Reached
<i>PS/XDMS CPRS test on IMS 7.5.0.2</i>	100%	95.8%	Reached
<i>total</i>	100%	98.5%	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

No alarm changes have been reported for this release.

Message changes

No message changes have been reported for 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 any 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
Fortinet FW	IMS 07.05.01	MR5. 8133	Fixed	ECS / RCS	Fortinet blocks CANCEL SIP message when P-CSCF sends it after 3 minutes.	Service Impacted: File transfer with no answer of the receiver: After 3 minutes without accepting the file transfer, the call is cancelled by the network (ISC) but Fortinet has already released the context so Cancel is not sent to the users. Impact: Caller has to cancel manually the transfer request. After the 3 minutes, if the receiver finally accepts the call, file transfer will never happen.
PS/XDMS	IMS 07.05.01	5.0 SP1.2	Fixed	ECS / RCS	Revoke a contact doesn't work in NNI configuration.	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 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. Validated OK with private patch.
VCC	IMS 07.05.02	JP1.3.7	Fixed	ECS/VCC	When a non-pilot board is unlocked, there are traffic errors.	Service Impacted: VCC switchover Impact: traffic degraded during 2 minutes after unlock. Private already verified; official delivery on JP1.3.7.

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
VCC	IMS 07.05.02	JP1.3.7	Fixed	ECS/VCC	When upgrading OAS 5400. MAS snmp configuration is lost.	Service Impacted: VCC Switch-over Impact: Loss of MAS alarms after platform upgrade, but so far, there is no traffic during platform upgrade.

6 Known issues



Overview

Purpose

This chapter describes NLT-reported issues that remain open in Release 07.05.02.

Known issues and workarounds

As of January 2010, 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

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	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. 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>
ISC	Under Investigation	ISCR20.X	Under Investigation	ECS	ISC does not maintain presence sessions during an IMS board switchover.	When the core switches over, the presence session will be lost and must be restarted.
VitalQIP	IMS 08.04.00	ENUM7.2	On Target	ECS/VoIP	ENUM error when re-creating an RCA subscriber who was previously deleted.	Impacted Service: E2E provisioning. Due to the ENUM issues, it is not possible to re-create a user who was previously deleted.



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), 1310 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
1310 OMC-P	Solaris 10 Generic_127111-09

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 07.05.01 to IMS 07.05.02. See the *IMS Solution 07.04.00 Software Upgrade* document, 275-100-035R07.04.00, 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:

- *IMS Solution 07.04.00 Software Upgrade 275-100-035R07.04.00*

Upgrade paths

Upgrade to IMS 07.05.02 is supported from IMS 07.05.01. Network Elements may require multiple transitions to go from IMS 07.05.01 to IMS 07.05.02; refer to the specific NE documentation for further details.

Security hardening

IMS Release Network Element security hardening procedures and related information are on OLCS at: <https://services.support.alcatel-lucent.com/services/>.

Click on IMS Solutions, then click on the Security Hardening IMS Release and finally click on each NE for security hardening details.

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
Internal 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

K

KPI
Key Performance Indicators

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

PES
PSDN Emulation Service

PSTN
Public Switched Telephony Network

S

SAM
Services Activation Manager

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
