Alcatel-Lucent

IP MULTIMEDIA SUBSYSTEM RELEASE 9.2.C

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 9.2.c 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 9.2.c.

Reason for revision

This is the second issue of the IMS Release 9.2.c Release Notes document. The following table shows the revision history:

Location	Revision	Issue number	Date of issue
Table 1-1	Updated 5060 MGC-8 load number and 5900 MRF load number	2	March 2011
Table 5-1	Updated table with 5060 MGC-8 resolved issues	2	March 2011
Table 6-1	Updated table to remove 5060 MGC-8 resolved issues	2	March 2011
All Pages	Updated all pages with new issue number and date	2	March 2011

Intended audience

The intended audience for this document includes all personnel who need information about the IMS 9.2.c 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 9.2.c.

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 9.2.c and the documentation deliverables included in this release.

Software deliverables

Table 1-1 lists the loads that comprise Release 9.2.c.

Table 1-1 Software release identification

Network Element/Application	Load Name in IMS 9.2.c
1310 Operations and Maintenance Center – Plus (OMC-P)	OMC-P_15_01_01_00
5060 Media Gateway Controller (MGC) – 8	MGC-8 8-0-4-1-SP-3
5420 Converged Telephony Server (CTS)	R22.20.01.04
5420 Personal Communication Manager (PCM)	7.1.1.38
5450 IP Session Control (ISC)	R22.20.01.04
5900 Media Resource Function (MRF)	MRF 7.1.0 plus unitary patch 26184
7510 Media Gateway (MGW)	7510.R331.B06.S1.01.03
8615 Instant enhanced Charging Collection Function (IeCCF) (T2000, 5440)	MAS R28SU2 patch0220 IeCCF 28.1 hotslide0105
8650 Subscriber Data Manager (SDM) (HSS on ATCA)	8650 SDM3.0-IAP001-Compact-Alert10-1309-APP
Billing and Traffic System (BTS)	BTS_8.0.4.0.6
VitalQIP® VitalQIP® ENUM Manager	VitalQIP R7.2 PR1 DNS R4.1 Build 12 ENUM R1.3

Comment [FN1]: Added NE

Comment [FN2]: Fixed load number

How to obtain software

Please contact your Alcatel-Lucent representative to obtain software.

Document deliverables

For Release 9.2.c, this document is the only solution document that is being published.

For all other solution documents, please use the latest version (Release 09.02.00).

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 documents) under IMS Solution Level Documentation. (You can refine your search by selecting the release number in the Release pull-down menu.)

   To obtain product documentation, do the following:

3. Go to https://services.support.alcatel-lucent.com/services/ims/
4. 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 9.2.c.

New features

The following features are included in this release:

Table 2-1 Features released in IMS 9.2.c

Feature Number	Feature Title
33333.553	Capacity, Performance, Reliability, Stability Testing for IMS 9.2.c
33333.554	E2E VoIP Testing for CMCC IMS Solution
33333.555	IMS Software Upgrade from IMS 9.0.c to IMS 9.2.c
33333.560	E2E BICC Testing for CMCC IMS Solution

Functionality

See the specific NE documentation for configuration information.

Enhancements

There are no enhancements in this release other than the features.

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 9.2.c test program. See Table 6-1 for exceptions.

Comment [FN3]: Deleted R

Table 3-1 NLT test results

Solution	Progress Rate	Quality (Pass Rate)	Exit Criteria Status (Reached/Not Reached)
IMS9.2.c Solution Test	100%	99.1%	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.

Interface changes

Changes to Northbound Interfaces

There are no changes to report in this release. Please consult the NE-specific documentation for more information.

Changes to Southbound Interfaces

There are no changes to report in this release. Please consult the NE-specific documentation for southbound interface changes in this release.

Alarm changes

There are no changes to report in this release. Please consult the NE-specific documentation for alarm changes in this release.

Message changes

There are no changes to report in this release. Please consult the NE-specific documentation for new messages or changes to messages in this release.

Port changes

There are no changes to report in this release. Please consult the NE-specific documentation for more information.

Protocol changes

There are no changes to report in this release. Please consult the NE-specific documentation for more information.

System parameter changes

There are no changes to report in this release. Please consult the NE-specific documentation for more information.

5 Resolved issues

Overview

Purpose

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

Resolved issues

This section lists resolved issues that were previously reported as *Known Issues* in Chapter 6.

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
OMC-P	IMS9.2.c	R15.1.0.5	Resolved	cvoip_xdsl	OMC-P doesn't support init MGC8 STG SLK L2 registers
5060 MGC-8	Post IMS9.2.c General Availability	R8.0.4.1.SP.3	Resolved	cvoip_xdsl	MGC-8 core dump when adding MGC MG association
5060 MGC	IMS9.2.c	R8.0.4.1.SP.3	Resolved	cvoip_xdsl	MGC-8 Card status error
5060 MGC	IMS9.2.c	R8.0.4.1.SP.3	Resolved	cvoip_xdsl	MGC-8 adding MGC-MGASSOC failed when using default port or the port around 51000-52000

6 Known issues

Overview

Purpose

This chapter describes NLT-reported issues that remain open in Release 9.2.c.

Known issues and workarounds

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 open severity 2 open issues from IMS 9.2.c

NE to Lead	Resolve Rls	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
5450 ISC	Post IMS9.2.c General Availability	Targeted for March or April	In progress	cvoip_xdsl	MI cannot be RCConline due to datablitz_repl core dump	Impact: MI cannot be RCConline and work normally due to datablitz_repl core dump. (It rarely happens.) Workaround: Do an FRU on the broken MI blade and skip the steps to remove the current blade and insert the new blade. See the FRU diskfull procedures in the customer documentation (*Hardware Corrective Maintenance Guide* - 270-702-023R4.0)

Comment [FN4]: Deleted DR5 – term no good for customers

Comment [FN5]: fixed

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 1.6.0_18

The following NE GUIs do not have Java dependencies: 5420 CTS, 5450 ISC, 1310 OMC-P, and 5900 MRF.

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_142909-17
BTS	Solaris 10 Generic_137111-06

Software licensing keys

There are no changes to software licensing keys in 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 9.0.c to IMS 9.2.c. See the *Alcatel-Lucent IP Multimedia Subsystem Release 09.02.00 Software Upgrade* document, 275-100-035R09.02.00, and specific NE documentation for more information. The specific upgrade path must be provided by each NE.

Comment [FN6]: Title corrected

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 (except for 5060 MGC-8):

- *Alcatel-Lucent IP Multimedia Subsystem Release 09.02.00 Software Upgrade 275-100-035R09.02.00*

Comment [FN7]: Corrected titles

For 5060 MGC-8, please refer to the 5060 MGC-8 release notes.

Additional upgrade information is documented in the release notes for each Network Element.

Upgrade paths

Upgrade to IMS 9.2.c is supported from IMS 9.0.c. Network Elements may require multiple transitions to go from IMS 9.0.c to IMS 9.2.c; refer to the Network Element release notes.

Security hardening

Security hardening procedures and information for IMS Release 9.2.c NEs are available on OLCS.

To obtain IMS security hardening procedures, do the following:

1. Go to: https://services.support.alcatel-lucent.com/services/ims/,
2. After a successful login, select **Security Hardening Releases**
3. Then select **Security Hardening IMS Release 9.2.c**

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

ATCA
Advanced Telecommunications Computing Architecture

AR
Action Register

B

BICC
Bearer Independent Call Control

Comment [FN8]: added

BTS
Billing and Traffic System

D

DNS
Domain Name System

Comment [FN9]: added

E

E2E
End to End

ENUM
tElephone Numbering Mapping

Comment [FN10]: added

C

CTS
Converged Telephony Server

G

GUI
Graphical User Interface

I

IeCCF
Instant enhanced Charging Collection Function

IMS
IP Multimedia System

ISC
IP Session Controller

M

MAS
MiLife® Application Server

Comment [FN11]: added

MGC
Media Gateway Controller

MGW
Media Gateway

MRF
Media Resource Function

N

NE
Network Element

NLT
Network Level Test

O

OLCS
OnLine Customer Support

OMC-P
Operations and Maintenance Center - Plus

P

PCM
Personal Communication Manager

Comment [FN12]: added

PWT
Pair Wise Testing

S

SDM
Subscriber Data Manager

V

VoIP
Voice over Internet Protocol