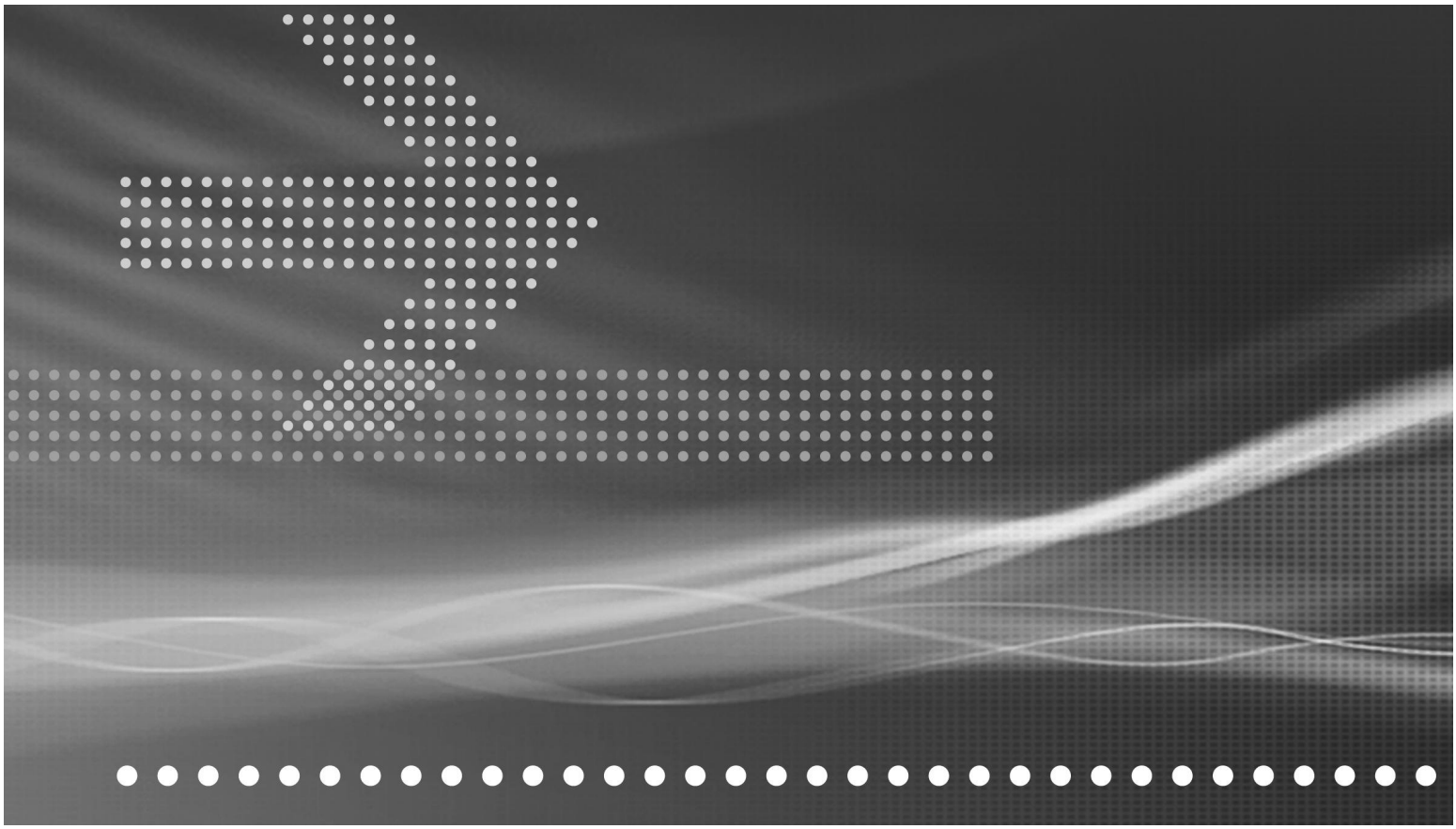

Alcatel-Lucent

IP MULTIMEDIA SUBSYSTEM RELEASE 9.0.C

SOLUTION EXTERNAL RELEASE NOTES

275-100-004R9.0.C
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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 9.0.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 9.0.C.

Reason for revision

This is the first issue of the IMS Release 9.0.C Release Notes document.

Intended audience

The intended audience for this document includes all personnel who need information about the IMS 9.0.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 9.0.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

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1 Release components

Overview

Purpose

This chapter describes the software loads that comprise Release 9.0.C and the documentation deliverables included in this release.

Software deliverables

Table 1-1 lists the loads that comprise Release 9.0.C.

Table 1-1 Software release identification

Network Element/Application	Load Name in IMS 9.0.C
1310 Operations and Maintenance Center – Plus (OMC-P)	OMC-P_15_00_00_02
5060 Media Gateway Controller (MGC) – 8	MGC-8.0.2.3
5420 Converged Telephony Server (CTS)	R22.14.01.05
5450 IP Session Control (ISC)	R22.14.01.05
5900 Media Resource Function (MRF)	MRF7.0.5
7510 Media Gateway (MGW)	7510_R322_05_04_2010_B02a
8615 Instant enhanced Charging Collection Function (IeCCF) (T2000, 5440)	IeCCF 28.1::MAS R28SU2 patch0206
8650 Subscriber Data Manager (SDM) (HSS on ATCA)	8650 SDM R3.0
Billing and Traffic System (BTS)	BTS_8.0.2.0.19
VitalQIP® VitalQIP® ENUM Manager	VitalQIP R7.2 PR1 DNS R4.1 Build 11 ENUM R1.3

How to obtain software

Please contact your Alcatel-Lucent representative to obtain software.

Document deliverables

For Release 9.0.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 and software upgrade documents) under IMS Solution Level Documentation.

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 9.0.C.

New features

The following features are included in this release:

Table 2-1 Features released in IMS 9.0.C

Feature Number	Feature Title
33333.400	Capacity, Performance, Reliability, Stability Testing for IMS9.0.c
33333.401	E2E VoIP Testing for IMS 9.0.c
33333.402	IMS 9.0.c offline charging solution
33333.403	Support SIP digest in IMS 9.0.c
33333.404	IMS 9.0.c PWT between CTS and OMC-P/MRF

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 R9.0.C 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)
IMS9.0.C Solution Test	100%	99.4%	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. Since this is the first release, there are no changes from previous releases to report.

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. Since this is the first release of IMS 9.0.C, this chapter does not apply.

Resolved issues

This section would list resolved issues that were previously reported as *Known Issues* in Chapter 6. Table 5-1 would list the severity 1 and 2 issues that were resolved in the loads that are part of this release. Since this is the first release of IMS 9.0.C, there are no resolved issues.

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
None					

6 Known issues

Overview

Purpose

This chapter describes NLT-reported issues that remain open in Release 9.0.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 6-2 lists the customer-reported ARs 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 9.0.C

NE to Lead	Resolve Rls	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
OMC-P-LGP	Targeted for 9.2.c	Future release of 1310 OMC-P	Future release of 1310 OMC-P	cvoip_xdsl	OMC-P doesn't support init MGC8 STG SLK L2 registers.	Impact: OMC-P doesn't support init MGC8 STG SLK L2 registers. Workaround: Use TL1 command of "INIT-REG-STGSLKL2"; refer to document 255-400-002R8.0.2 for the details of the TL1 command.
5060 MGC-8	Targeted for 9.2.c	Under Investigation	Under Investigation	cvoip_xdsl	MGC-8 core dump when adding MGC MG association. Only found during installation.	Impact: After adding one MGC MG association, the system will reboot. Mitigation: This only happens during installation. Use the TL1 command of “INIT-ATCA-SYS::1:::10;” to reboot the system. See document 255-400-002R8.0.2 for more details on the TL1 command.
ISC	Under Investigation	CP 5.0	Feature enhancement	cvoip_xdsl	A major alarm "LSS_hostDown" is bouncing on MI.	Impact: A major alarm of LSS_hostDown cannot be cleared after MI reboots. Workaround: See chart 3 in the document 270-702-020R4.0 to manually clear the alarm.

Table 6-2 Customer-reported ARs from IMS 9.0.C

Product	Version Release Patch/SU Level	Short Description	Customer Project	Impact Statement/Workaround
5060 MGC-8	R8.0.2 R8.0.2 8.0.2.2	CM SX IMS: CPG message can not be mapped to 180 message.	CM SX IMS	Minor impact. Targeted for MGC-8.8.0.4.
5060 MGC-8	R8.0.2 R8.0.2 R8.0.0.2	CM SX IMS: The call is released as soon as MGC-8 receives the ANM message.	CM SX IMS	Minor impact. Will close if confirmed to be configuration issue. Service team monitoring and will close if problem no longer found.

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_142900-12
BTS	See product release notes

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

This section is not applicable since IMS9.0.C does not support software upgrades.

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

This section is not applicable since IMS9.0.C does not support software upgrades.

Upgrade paths

This section is not applicable since IMS9.0.C does not support software upgrades.

Security hardening

Security hardening procedures and information for IMS Release 9.0.C NEs is available on OLCS at: https://services.support.lucent.com/services/. Click on **IMS Solutions**, then click on **Security Hardening IMS Release 9.0.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

BTS
Billing and Traffic System

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

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

PWT
Pair Wise Testing

S

SDM
Subscriber Data Manager

V

VoIP
Voice over Internet Protocol