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IP MULTIMEDIA SUBSYSTEM RELEASE 09.02.02

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 09.02.02 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 09.02.02.

Reason for revision

This is the third issue of the IMS Release 09.02.02 Release Notes document. The following table shows the revision history:

Location	Revision	Issue number	Date of issue
Table 1-1	Deleted R22.14.01.11 load name from 5420 CTS and 5420 SCG entries and added clarification of load names to 5450 ISC entry	2	January 2011
Table 1-1	Added entry for WSG	2	January 2011
Acronym List	Added WSG	2	January 2011
All Pages	Changed to Issue 2	2	January 2011
Table 1-1	Updated the load name for Co-Resident 5410 PS/SDMX and 5430 MMIM	3	February 2011
Table 3-1	Updated progress rate to 100%	3	February 2011
Page 6-2	Updated date in first sentence to January	3	February 2011
Table 6-1	Updated Resolve Release and Fixed in Load dates for 5430 IM	3	February 2011
All Pages	Changed to Issue 3	3	February 2011

Intended audience

The intended audience for this document includes all personnel who need information about the IMS 09.02.02 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 09.02.02.

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 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 09.02.02 and the documentation deliverables included in this release.

Software deliverables

Table 1-1 lists the loads that comprise Release 09.02.02. New or changed load names are shown in bold-face type.

Table 1-1 Software release identification

Network Element/Application	Load Name in IMS 09.02.02	Load Name in IMS 09.02.01	Load Changed Since IMS 09.02.00?
1300 Cross Management Center (XMC)	R7.0.5.3 Plus R7.0.5 IAP005	R7.0.5.3	Yes
1310 Operations and Maintenance Center – Plus (OMC-P)	15.0.0.2	15.0.0.2	No
1357 Unified Lawful Intercept Suite (ULIS) Lawful Interception Gateway (LIG)	R12.5.2 ed05	R12.5.2 ed05	No
1540 Litespan	R3.2.52	R3.2.52	No
5020 Media Gateway Controller – 8 (MGC-8)	R8.0.1.3	R8.0.1.3	No
5060 Media Gateway Controller – 8 (ATCA)	R8.0.1.3	R8.0.1.3	No
5100 Converged Messaging System (CMS)	CMS-10SU4.3 (1000.40.3.15)	CMS-10SU4.3 (1000.40.3.15)	No
5410 Presence Server (PS)/ XML Document Management Server (XDMS)	5350 mCAS IAS 2.0.1 5.1 SP1.1	5350 mCAS IAS 2.0.1 5.1 SP1.1	No
5420 Converged Telephony Server (CTS)	R22.14.01 R22.14.01.08	R22.14.01.07	Yes
5420 Personal Communication Manager (PCM)	PCM 7.1.0.50	PCM 7.1.0.50	No
5420 Service Continuity Gateway (SCG)	R22.14.01 R22.14.01.08	R22.14.01.07	Yes
Co-Resident 5410 PS/XDMS and 5430 Multimedia Instant Messaging (MMIM)	5350 mCAS IAS 2.0.2 5.1 SP2.1_patches_2011_01_27 the 27th of January 2011	MMIM/Ps/Xdms R5.1 CoRes ED 09152010::5350 mCAS IAS 2.0.1	Yes
5450 IP Session Control (ISC)	R22.14.01 R22.14.01.08 (CTS/ISC Co-Resident) R22.14.01.11 (ISC only)	R22.14.01.07	Yes
5750 Subscriber Services Controller (SSC) (for Connectivity Location Function (CLF) and Dynamic Host Configuration Protocol (DHCP) only)	SSC R3.3 R2 + patch	SSC R3.3 R2 + patch	No
5900 Media Resource Function (MRF)	MRF 7.1.0	MRF 7.1.0	No
5900 Personalized Ring Back Tone (PRBT)	CDS-IP R3.0 CMS R3.1.3	CDS-IP R3.0 CMS R3.1.3	No
7302 Intelligent Services Access Manager (ISAM)-V/7330 Intelligent Service Access Manager (ISAM) Fiber to the Node (FTTN)	R4.1.0.2.406	R4.1.0.2.406	No

Network Element/Application	Load Name in IMS 09.02.02	Load Name in IMS 09.02.01	Load Changed Since IMS 09.02.00?
7302 ISAM/7330 ISAM FTTN	OLT R4.0.10 ONT R4.0.40	OLT R4.0.10 ONT R4.0.40	No
7510 Media Gateway (MGW)	7510.R331.B03b.S0.01.02	7510.R331.B03b.S0.01.02	No
7515 Media Gateway (MGW)	7515m2.4B0120	7515m2.4B0120	No
7515 SIP-MGW	7515R31S B0110	7515R31S B0110	No
7520 Media Gateway (MGW)	R8.0.1.3	R8.0.1.3	No
7750 Service Router	7750_R7.0_R6	7750_R7.0_R6	No
8610 Instant Convergent Charging (ICC)	ICC R5.1	ICC R5.1	No
8615 Instant enhanced Charging Collection Function (IeCCF) (T2000, 5440)	MAS R28SU2 patch209 IeCCF 28.1hotslide0103	MAS R28SU2 patch209 IeCCF 28.1hotslide0103	No
8650 Subscriber Data Manager (SDM) (HSS on ATCA)	8650 SDM R3.0 IAP001+Alert 10-1435	8650 SDM R3.0 IAP001+Alert 10-1218	Yes
8660 My TeamWork	ACS8.1 MR2	ACS8.1 MR2	No
8920 Service Quality Manager (SQM)	R3.7.6.10	R3.7.6.10	No
8950 Services Activation Manager (SAM) (Sun/Linux Platform)	R17.0.1.5	Not Applicable	New
8965 C3S	4.5.4.1	4.5.4.1	No
Acme Packet Session Director (4500)	Cx6.1.0m2p4	Cx6.1.0m2p4	No
Billing and Traffic System (BTS)	BTS_8-1-0-0-32	BTS_8-1-0-0-28	Yes
Cellpipe	6VeA2100 firmware V1.4.0.13AEG	6VeA2100 firmware V1.4.0.13AEG	No
Comneon RCS Client	WM 05.01.03-02	WM 05.01.03-02	No
Genesys SIP Server	SIP Server 8.0.400.32 Genesys Voice Platform (GVP) 8.1.3: GVP components: Media control platform (Media server): 8.1.301.18, Resource Manager: 8.1.301.09, Call control platform: 8.1.301.09	SIP Server 8.0.400.32 Genesys Voice Platform (GVP) 8.1.3: GVP components: Media control platform (Media server): 8.1.301.18, Resource Manager: 8.1.301.09, Call control platform: 8.1.301.09	No
Movial	8.1.7-741	813-741	Yes
OmniAccess 8550 Web Services Gateway (WSG)	R3.2.9056	Not Applicable	New
OXE OmniPCX Enterprise	R9.1 version II.605.13	R9.1 version II.605.13	No
VitalQIP® and VitalQIP® ENUM Manager	VitalQIP R7.2 PR1 DNS R4.2 (BIND 9.5.1-P3) ENUM R1.3	VitalQIP R7.2 PR1 DNS R4.2 (BIND 9.5.1-P3) ENUM R1.3	No

How to obtain software

Please contact your Alcatel-Lucent representative to obtain software.

Document deliverables

For Release 09.02.02, 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 09.02.02.

New features

The following features are included in this release:

Table 2-1 Features released in IMS 09.02.02

Feature Number	Feature Title
33333.390	IMS Solution Provisioning Rate: CSDB & Pri/Protect
33333.392	E2E Performance, reliability, Stability testing for IMS 9.2
33333.396	CPRS testing of co-located MMIM 5.1 and PS/XDMS 5.1 in IMS 9.2
33333.413	Capacity testing for IMS 9.2
33333.417	PBX BVoIP with Bulk Registration End-to-End Subscriber Provisioning Validation
33333.418	Enterprise (Network-Hosted) BVoIP E2E subscriber provisioning performance
33333.419	PBX BVoIP with Bulk registration E2E subscriber provisioning performance
33333.443	MDM rate limited insertion from existing non-IMS solution
33333.446	IMS Solutions testing of SDM R3.0 without Omniswitch
33333.447	Solution Security testing of PS-XDMS, MMIM in IMS 9.2
33333.448	Fault and Performance Validation thru XMC for PS-XDMS/MMIM in IMS 9.2
33333.451	IMS Solutions Testing of 8550 Web Services Gateway HTTP Reverse Proxy
44444.0	Product Gating Process (PGP) For IMS 9.2

Table 2-2 Features released in IMS 09.02.01

Feature Number	Feature Title
11111.7	My Teamwork IMS Entry Testing for IMS 7.8/9.2 and ICS2.1
11111.8	Genesys IMS Entry Testing for IMS 7.8/9.2 and ICS 2.1
11111.9	C3S IMS Entry testing for IMS 7.8/9.2 and ICS 2.1
11111.10	IMS Video Client Testing for IMS 9.2/ICS 2.1
33333.318	5420 SCG 7.1 Testing for Single-Mode Mobile Extensions (ME) over GSM/UMTS in dIMS.
33333.336	Solution Testing of 1357 IMS CALEA Solution for North America
33333.391	IMS 9.2 Geographic Redundancy Solution Level Testing
33333.392	E2E Performance, Reliability, Stability testing for IMS 9.2
33333.413	Capacity testing for IMS 9.2
33333.415	IMS Solution: Centralized Backup & Import for IMS 9.2
33333.416	Enterprise (Network-Hosted) BVoIP End-to-End Subscriber Provisioning Validation
33333.420	CVoIP End-to-End Subscriber Provisioning Validation
33333.424	End-to-End Subscriber Provisioning Validation with Multiple CLIR options
33333.425	End-to-End Subscriber Provisioning Validation of CW with or without CLIP for 2nd Generation Workflows
33333.428	End-to-End Subscriber Provisioning Validation of Multi-Line Hunt Group CLIP for 2nd Generation Workflows
33333.430	IMS 9.2 NLT Codenomicon Testing
33333.434	NLT Testing Of XMC FM/PM Coverage of Reference Architecture Elements
33333.441	PRSET PES enhancements
33333.443	MDM (Ph 2) rate limited insertion to (CTS CSDB & Pri/Prot,iAGCF,PCM,single OMC-P,SDM HSS) from existing non-IMS solution
33333.447	Solution Security testing of PS-XDMS,MMIM in IMS 9.2
33333.463	end-to-end testing of Charging & Billing Mediation, in IMS 9.2.
33333.464	BP - IP Voice Services R2.0 : Access requirements
33333.465	BP - IP Voice Services R2.0 : overload protection/behavior
33333.466	BP – IP Voice Services R2.0: Carrier Selection for Enterprise
33333.535	IMS 9.2 Network Assurance Improvements
33333.582	E2E Solution Provisioning of DisplayName into the SDM HSS

Table 2-3 Features released in IMS 09.02.00

Feature Number	Feature Title
11111.20 ¹	IMS Entry testing for 7510 integrated firewall
22222.2	IMS Simplification for Flexible Line-up: SDM chassis kit
33333.247	Common HP based platform for 5410 PS/XDMS 5.1,5430 MMIM 5.1 in IMS 9.2
33333.385	Extend 5430 MMIM server 5.1 testing in IMS 9.2
33333.394	Lawful Intercept support on the P-CSCF & 7510 BGF
33333.399	IMS Software Upgrade from IMS 9.0 to IMS 9.2 using automation in a single step upgrade for each IMS NE
33333.405	POTS: Transfer only allowed when at least one far party is an originator
33333.414	CTS Centralised Service Database (CSDB): Introduction of Notify-Eff feature on Sh
33333.438	IMS Solution: SIP Business Trunking Enhancements for IMS 9.2

¹ For information about integrated firewall functionality, please contact your Alcatel-Lucent representative.

Feature Number	Feature Title
33333.449	NLT Performing Pairwise Testing of the leCCF 28.1 NE load
33333.456	Standalone PS-XDMS testing for IMS 9.2
33333.459	OMC-P CSDB Data evolution via Upsynch

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 09.02.02 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>IMS 09.02.02 Solution Test</i>	100%	97.0%	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 between Release 09.02.00 and this release.

Interface changes

Changes to Northbound Interfaces

There are no changes to report in this release.

You can also refer to the following solution-level document for additional information about interface changes for IMS 09.02.00 Network Elements:

- *IP Multimedia Subsystem Release 09.02.00 Solution Interface Changes Specifications*, 275-100-050R09.02.00

Changes to Southbound Interfaces

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.

You can also refer to the following solution-level document for additional information about alarm changes for IMS 09.02.00 Network Elements:

- *IP Multimedia Subsystem Release 09.02.00 Solution Interface Changes Specifications, 275-100-050R09.02.00*

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.

You can also refer to the following solution-level document for additional information about port changes for IMS 09.02.00 Network Elements:

- *IP Multimedia Subsystem (IMS) Release 09.02.00 Solution Ports and Protocols, 275-100-058R09.02.00*

Protocol changes

There are no changes to report in this release.

You can also refer to the following solution-level document for additional information about protocol changes for IMS 09.02.00 Network Elements:

- *IP Multimedia Subsystem (IMS) Release 09.02.00 Solution Ports and Protocols*, 275-100-058R09.02.00

System parameter changes

There are no changes to report in this release.

You can also refer to the following solution-level document for additional information about system parameter changes for IMS 09.02.00 Network Elements:

- *IP Multimedia Subsystem (IMS) Release 09.02.00 Solution System Parameters*, 275-100-057R09.02.00

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 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
iAGCF	IMS 9.2.2	22.14.01.08	Fix verified in IMS 9.2.2	pstn	ISAM-VGW not supporting Fax Fall-Back from G.711 to T.38 for LSV5.2 & IPBX-UNI
PS/XDMS mcas	IMS 9.2.2	MMIM_PsXdms_R5.1 SP2	Fix verified in IMS 9.2.2	apps	DDM memory leak on the active pilot server

6 Known issues



Overview

Purpose

This chapter describes NLT-reported issues that remain open in Release 09.02.02.

Known issues and workarounds

As of January 2011, 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 6-2 lists the severity 2 issues that were not resolved in the network element loads that are part of IMS Release 09.02.00.

Table 6-1 NLT-reported severity 2 open issues from IMS 09.02.02

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
8650 SDM	Targeted for IMS 11.00.00	Under Investigation	In Progress	sub_provision	SDM Timeout during DeleteRange PBX loads from SAM	The deletion of some IPBX DNs fail when the IPBX range contains a wide range of numbers. The workaround is to re-delete subscribers that fail on the initial deletion sequence. A detailed description of the workaround is provided in the "8950 SAM EP17.0.1.5 Release Letter"
5430 IM	Targeted for Co-Res 5.1 maintenance load end of March	Targeted for Co-Res 5.1 maintenance load end of March	In Progress	rcs	In mCAS IAS, some counters are not available	Counters available in R5.0 are not available in R5.1 SP2.1
5430 IM	Targeted for 6.0 maintenance load end of March	Targeted for 6.0 maintenance load end of March	Committed	rcs	No counter available for CrossNetworkProxy	New counter CrossNetworkProxy counters are not available
5430 IM	Targeted for Co-Res 5.1 maintenance load end of March	Targeted for Co-Res 5.1 maintenance load end of March	In Progress	rcs	SNMP manager cannot execute GET/SET SNMP command. XMC cannot supervise Co-Res (worked with mCAS 2.0.1)	NE Administration (GET/SET command) using SNMP interface is not available
5430 IM	Targeted for 5.1 maintenance load end of July	Targeted for 5.1 maintenance load end of July	Committed	rcs	alarm for one lost link on SIP/HTTP/OAM interfaces	no alarm for one lost link on SIP/HTTP/OAM interfaces

Table 6-2 NLT-reported severity 2 open issues from IMS 09.02.00

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
8650 SDM	Targeted for IMS 9.3	Targeted for R3.0 IAP002	Fix is available in R3.0 IAP002, to be tested in IMS 09.03.00	core	SDM Prset GUI unusable with large number of PrsetEndPointImpi	Customers will be unable to query PRSET data when number of PRSET subscribers is 400K or greater. To query data an OSS with a CORBA/SOAP interface is needed and bulk data scripts can be used to modify data in PRSET entries



7 System requirements

Overview

Purpose

This chapter describes software dependencies, hardware requirements, and compatibility restrictions.

Software requirements

IMS GUIs JAVA Dependency

Follow the steps listed below to install multiple Java based GUIs on a single PC

1. Minimum platform: Windows XP SP2 with 2GB RAM and Internet Explorer 7
2. Close all internet browser windows
3. Remove all JREs from the PC
4. Load Java 1.5.0.21 of the JRE 1.5 family
5. Load Java 1.6.0.20 of the JRE 1.6 family
6. Use all default settings for the internet browser and Java control panel
7. Set the Network Settings on the General Tab of the Java Control Panel to Direct Connection
8. Verify from the Java Control Panel that both JREs, 1.5 and 1.6, are enabled
9. If the PC is not using a local DNS:
 - i. Update the PC flat file C:\WINDOWS\system32\drivers\etc\hosts with the IP address and server name associated with each GUI
 - ii. Otherwise, if the PC is using a local DNS:

-
- iii. Update the DNS Server with the IP address and server name associated with each GUI.
10. Load the GUIs in any order:
- 8950 SAM GUI
 - 1310 OMC-P GUI
 - 1300 XMC GUI
 - 5420 CTS, 5420 SCG, 5450 ISC – LCP FSGUI and MIGUI
 - 8650 SDM HSS GUI
 - VitalQIP GUI
 - 5900 MRF GUI
 - 5420 PCM GUI (no GUI)
11. For Internet Browser GUIs, start each GUI in a separate Internet Explorer so the appropriate JRE is loaded. When installing the XMC GUI, select Accept for the certificate.

SUN Operating System Patch Level for Non-Integrated Components

Table 7-1 shows the SUN OS patch level for non-integrated components.

Table 7-1 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
BTS	Solaris 10 Generic_127111-09

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 09.02.01 to IMS 09.02.02. See the *Alcatel-Lucent Internet Protocol Multimedia Subsystem (IMS) Solution 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.



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 09.20.00 Software Upgrade 275-100-035R09.02.00*

Refer to the NE documentation for specific software upgrade information.

Upgrade paths

Upgrade to IMS 09.02.02 is supported from IMS 09.02.01. Network Elements may require multiple transitions to go from IMS 09.02.01 to IMS 09.02.02; refer to the specific NE documentation for further details.

Security hardening

Security hardening procedures and information for IMS Release 09.02.02 NEs are available on OLCS. Go to: <https://services.support.lucent.com/services/ims/>, then click on **Security Hardening Releases, IMS Release 09.02.00**. 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

ASR

Application Server Runtime

B

BTS

Billing and Traffic System

C

CLF

Connectivity Location Function

CMS

Converged Messaging System

CTS

Converged Telephony Server

CVoIP

Consumer Voice over IP

D

DHCP

Dynamic Host Configuration Protocol

DNS

Domain Name System

E

ENUM

tElephone Numbering Mapping

F**FTTN**

Fiber To The Node

G**GUI**

Graphical User Interface

I**IAS**

IMS Application Server

ICC

Instant Convergent Charging

IeCCF

Instant enhanced Charging Collection Function

IMS

IP Multimedia System

ISAM

Intelligent Services Access Manager

ISC

IP Session Controller

L**LIG**

Lawful Interception Gateway

M**mCAS**

modular Converged Application Server

MAS

MiLife® Application Server

MGC

Media Gateway Controller

MGW

Media Gateway

MMIM

Multimedia Instant Messaging

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 - Plus

P

PCM

Personal Communication Manager

PRBT

Personalized Ring Back Tone

PS

Presence Server

S

SAM

Services Activation Manager

SCG

Service Continuity Gateway

SDM

Subscriber Data Manager

SQM

Service Quality Manager

SSC

Subscriber Services Controller

U

ULIS

Unified Lawful Intercept Suite

V

VoIP

Voice over Internet Protocol

W

WSG

Web Services Gateway

X

XDMS

XML Document Management Server

XMC

Cross-domain Management Center
