



Alcatel-Lucent

INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS) SOLUTION
07.00.02

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 07.00.02, 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 07.00.02.

Reason for reissue

This is the first issue of the IMS Release 07.00.02 Release Notes.

Intended audience

The intended audience for this document includes all personnel who need information about the IMS 07.00.02 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 07.00.02.

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.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 07.00.02 and the documentation deliverables included in this release.

Software deliverables

Table 1-1 lists the loads that comprise Release 07.00.02. New or changed load names are shown in bold-face type.

Table 1-1 Software release identification

Network Element/Application	Load Name in IMS Release 07.00.01	Load Name in IMS Release 07.00.02	Load Changed Since IMS Release 07.00.01?
1300 Cross Management Center (XMC)	R6.2.0.3	R6.2.0.3	No
1357 Unified Lawful Intercept Suite (ULIS)	12.3.2	12.3.2	No
1440 USDS (includes MAS/AHE)	USDS-04.03.72.05 MAS-R27SU0-p0006	USDS-04.03.72.06 MAS-R27SU0-p0009	Yes
5020 MGC-8 (was Lucent Network Controller (LNC), Lucent Signaling Gateway)	LGP 6-3-1-2-SP-5	LGP 6-3-1-2-SP-5	No
5020 MGC-12	MGCSX30	MGCSX30	No
5060 MGC-10	Not Applicable	R1.1.4.1/V8_0F.3	Yes
5100 CMS	CMS-1000.1.5.3	CMS-1000.1.5.3	No
5350 IMS Application Server (IAS) (Presence, XDMS)	PS41_SP2_1 XDMS41_SP2_1	PS41_SP2_1 XDMS41_SP2_1	No
5420 Personal Communication Manager (PCM)	PCM-R1.0.0_PH3_Build55 6.zip TP 3.0.4.18 ASR 3.3SP10.2+patch 50	PCM-R1.0.0_PH3_Build55 6.zip TP 3.0.4.18 ASR 3.3SP10.2+patch 50	No

	Red Hat 5.1	Red Hat 5.1	
5420 Voice Call Continuity Server (VCC)	Not Applicable	VCC R8.0.011 IAS 5400 1.1.1.3	Yes
5440 IMS – PC Client	PC Client – R3.0.4-v2042-PCM	PC Client – R3.0.4-v2072-PCM	Yes
5450 AGCF	AGCF-5-1-0R1S3 then AGCF-5-1-0R1S3P1	AGCF-5-1-0R1S3 then AGCF-5-1-0R1S3P1	No
5620 Services Activation Manager (SAM) ¹	R5.0R9	R5.0R9	No
5900 Media Resource Function (MRF)	R6.2.1	R6.2.1	No
7302 ISAM-V	ISAM-V-R35.213	ISAM-V-R35.213	No
7510 Media Gateway (MGW)	A7510_R30_05_08_2008_B07 I6050808.pak	A7510_R30_05_08_2008_B07 I6050808.pak	No
7515 Media Gateway (MGW) ²	R2.4	R2.4	No
7520 Media Gateway (MGW) (was Lucent Network Gateway)	LGP 6-3-1-2-SP-5	LGP 6-3-1-2-SP-5	No
7750 Service Router	R5.0R11	R5.0R11	No
8610 Instant Convenient Charging (ICC)	4.5.2-02, HFRs label ICCGENR452-02-EWS-HF810	4.5.2-02, HFRs label ICCGENR452-02-EWS-HF810	No
8615 Instant enhanced Charging Collection Function (IeCCF)	CCF-R26SU6-0116 MAS-R26SU8 CCF-R26SU6-hotslide0102 MAS-R26SU8-p0805	CCF-R26SU6-0116 MAS-R26SU8 CCF-R26SU6-hotslide0102 MAS-R26SU8-p0805	No

¹ Not tested by NLT as part of IMS 07.00.00.

² Not tested by NLT as part of IMS 07.00.00.

8670 GUP	GUP-501R1S1A9	GUP-501R1S1A9	No
8950 Vital AAA ³	R5.2.5	R5.2.5	No
Acme Packet Net-Net EMS ⁴	R6.0.0p1	R6.0.0p1	No
Acme Packet Session Director (4250)	C5.1.1p10	C5.1.1p10	No
Audicodes – IPM2K	Audio-Codes-IPM1610_SIP_F5.20 A.035.005	Audio-Codes-IPM1610_SIP_F5.20 A.035.005	No
Audiocodes – IPM5K ⁵	Audio-Codes-AC_IPM5K_R5.0.50-1.1a	Audio-Codes-AC_IPM5K_R5.0.50-1.1a	No
eSM	PA-RISC-eSM-01.26.08.PA Itanium – eSM-01.26.08.IA	PA-RISC-eSM-01.26.08.PA Itanium – eSM-01.26.08.IA ⁶	No
Fortinet Fortigate Firewall	3.00-b0096 (MR4)	3.00-b0096 (MR4)	No
Lucent Control Platform (LCP) includes: <ul style="list-style-type: none"> - 5420 Converged Telephony Server (CTS; was feature Server 5000) - Lucent Feature Server 2500 - 5450 IP Session Control (ISC; was Session Manager) 	R15.25.01.05	R15.25.02.01	Yes
Lucent VPN Firewall (LVF)	9.2.184	9.2.184	No
OMC-P	OMC-P-12.0.2.0	OMC-P-12.0.2.0	No

³ 8950 Vial AAA was part of the WiMAX business unit lab environment, but not specifically tested as part of IMS 07.00.00.

⁴ Not tested by NLT as part of IMS 07.00.00; was tested in 06.01.11.

⁵ Audiocodes – IPM5K was integration-tested with CTS and ISC but was not tested by NLT in IMS 07.00.00.

⁶ Itanium version of eSM not tested by NLT.

Plexus BTS	BTS 6.3.2.0.3	BTS 6.3.2.0.3	No
Security Management Software	R9.2.184	R9.2.184	No
VitalQIP	VitalQIP 7.1 DNS R4.0 Build 23 ENUM R1.2 VQIP eSM ISR: USDS-04.01.70.06 (only VQIP200 file)	VitalQIP 7.1 DNS R4.0 Build 23 ENUM R1.2 VQIP eSM ISR: USDS-04.01.70.06 (only VQIP200 file)	No
WDDF	WDDF-R3.7.1SU2	WDDF-R3.7.1SU2	No
Westell TriLink™ IMS Gateway Model 6358	Westell_RGBW-02.00.03.02, SW2.0055.17	Westell_RGBW-02.00.03.02, SW2.0055.17	No
Zyxel	MAX210 M1 V3.60 (AKG.0) b19 RUNCOM 206.70.24.26.0.10	MAX210 M1 V3.60 (AKG.0) b19 RUNCOM 206.70.24.26.0.10	No
Zyxel PCMCIA Card (used in PC Client)	ZyXEL PCMCIA MAX100_1.0.4.4	ZyXEL PCMCIA MAX100_1.0.4.4	No

NE to Solution mapping

Not applicable for this release.

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 07.00.02.

Table 1-3 IMS 07.00.02 solution documentation

Title	Ordering number
<i>IMS Release 07.00.00 Solution Technical Description</i>	275-100-000R07.00.00
<i>IMS Release 07.00.00 Solution Operations, Administration, Maintenance, & Provisioning</i>	275-100-001R07.00.00
<i>IMS Solution Release 07.00.02 Release Notes</i>	275-100-004R07.00.02
<i>IMS Release 07.00.00 Interface Changes Specifications</i>	275-100-050R07.00.00
<i>IMS Release 07.00.00 Solution Software Upgrade</i>	275-100-035R07.00.00
<i>IMS Release 07.00.00 Solution System Parameters</i>	275-100-057R07.00.00
<i>IMS Release 07.00.00 Solution Ports and Protocols</i>	275-100-058R07.00.00
<i>IMS Release 07.00.00 Solution Growth</i>	275-100-059R07.00.00

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 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 07.00.02.

New features

Table 2-1 shows the new features in Release 07.00.02.

Table 2-1 New features

Feature Number	Feature Title
33333.58	VCC 8.0 anchoring with IMS

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 07.00.02 test program.

Table 3-1 NLT Test Results

Solution	Progress Rate	Quality (Pass Rate)	Exit Criteria Status (Reached/Not Reached)
<i>Distributed Context Aware</i>	100%	96%	Reached
<i>Distributed cVoIP over WiMAX</i>	100%	96%	Reached
<i>Distributed cVoIP over xDSL</i>	100%	95%	Reached
<i>Compact cVoIP over xDSLc</i>	100%	98%	Reached
<i>Distributed PSTN emulation</i>	100%	96%	Reached
<i>Compact PSTN emulation</i>	100%	100%	Reached
<i>Wholesale Transit</i>	100%	100%	Reached
<i>CDMA - Consumer VCC</i>	100%	100%	Reached
<i>GSM/UMTS – Consumer VCC CI SFR</i>	100%	96.2%	Reached
<i>Core Elements</i>	100%	95%	Reached
<i>total</i>	100%	98%	

See Table 6-1 for exceptions.



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 07.00.00 Network Elements:

- *IP Multimedia Subsystem Release 7.0 Solution Interface Changes Specifications, 275-100-050R7.0*

Changes to Southbound Interfaces

There are no Southbound Interface changes in this release.

Alarm changes

There are no alarm changes in this release.

Message changes

There are no 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

There are no previously-reported known issues resolved in IMS Release 07.00.02.

6 Known issues



Overview

Purpose

This chapter describes NLT-reported issues that remain open in Release 07.00.02.

Known issues and workarounds

No customer-reported ARs have been opened against this release.

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

Table 6-1 NLT-Reported severity 1 and 2 open issues

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
USDS	7.0.3	USDS R7.2Patc h01	On track for IMS 07.00.03	provisioning	GUP does not encrypt MD5 password before storing it on USDS	If the customer has the ENCRYPTPRIDPASSWORD set to YES on the USDS, any subscriptions provisioned with a password will not be able to register because the password in USDS will not match the password in the Endpoint because it is not encrypted on the USDS
OMC-P-LCP	7.0.3	GUP-501-R1S1	On track for IMS 07.00.03	provisioning	OMC-P FS5K Primary ID is blank when adding a subscriber with GUP	Customer may have to manually edit the AD.xml file in order to make sip or tel uri subscribers setting max length to 32.
5420 PCM (LCM)			Under investigation	cVoIP	Feature code populated by OMC-P is not auto sync to the PCM	If and end user assigns/changes a service code for a particular service on the PCM and then the service provider assigns the same dial code to the default route table, the service will not work. Two optional workarounds: a) Service providers reserve codes that end-users cannot use. b) Service providers create specific route tables for each of their customer and not assign default services to those customers who have PCM.

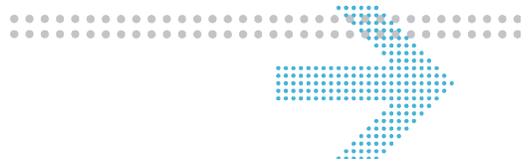
NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
1300 XMC	7.0.3	XMC 6.0.3	On track for IMS 07.00.03	CPRS	MI->OMCP->XMC alarms do not work from LCP. Need x733 forwarding code on OMCP	Customers will need to bypass OMC-P out and directly connect to XMC-LCP if they want XMC.
USDS	7.0.3	USDS R7.2 patch01 load	On track for IMS 07.00.03	provisioning	GUP does not send any values and then USDS must accept the message	AGCF bulk registration gateway cannot be provisioned via IMS7.0 Subscriber provisioning strategy.
ISC	7.0.3	15.25.01.06	On track for IMS 07.00.03	CPRS	Call load causes cpiMGCTransactionRetransmitted alarms from H.248DS	Critical alarms are issued which may cause erroneous concerns on the part of a customer. Retransmissions are alarmed based on a pure number of how many retransmissions rather than a percentage. For example 30 retransmissions out of 3000 will escalate to a critical alarm which represents an incorrect view. They are changing the algorithm to be percentage based, but that cannot be done in 7.0DR4 timeframe as they do not want to pick arbitrary values.
8670 GUP	7.0.3	GUP-501-R1S1	On track for IMS 07.00.03	provisioning	GroupSearchServices is optional in the adxml file, but GUP is still requesting	Customer will receive error when provisioning for PCM. Error message will request missing information which if supplied by customer will correct problem.
8670 GUP	7.0.3	GUP-501-R1S1	On track for IMS 07.00.03	provisioning	RAFIInstance ID action Modify or Delete needs check if in use by other tables.	No cross checks done so if customer inputs incorrect RAF instance it could be pointing to incorrect data without customer knowing. Blocking issue for GUP
5020 MGC-8	7.0.3	6.3.1.2.S P.7	On track for IMS 07.00.03	PES	CW, Pr-Rdigit Actions 0 , 1 Fail when MGC-8/PSTN Line is B-Party, A is CW Master	When one leg of a CW/Held Call is an MGC-8 or MGC-12 PSTN Line, Cannot retrieve held call when Alternate CW is enabled for subscriber.

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
USDS	7.0.5		Under investigation	provisioning	Query of PRID fails when the username contains '/'	PRID values containing a "/" cannot be queried/modified/deleted.
MGC-8	7.0.3		will be documented in the Plexus installation guide	cvoIP_Wimax	IAM Message with "hop counter" IE refused by Plexus	When PSTN sends the optional "hop counter" parameter, the call is dropped. The workaround consists in using the Plexus ISUP masking feature to change incoming PCI value to avoid dropping the call
CTS	7.0.3	15.25.02.01	On track for IMS 07.00.03	PES	OMC-P not accept the AGCF PRID format */# - can not enter users data into iHSS	Certain gateway endpoints, like MP-108, cannot be provisioned via OMC-P because it will not support special characters such as /. If IMS is sold to existing customers that use MP-108 this will need to be provisioned via AGCF GUI for cIMS.
USDS	7.0.3		Resolved by provisioning change	provisioning	FS5k provisioning fails with GUP if "sip: storing in DB" is set to "N" in USDS	Manually set this flag to "Y" in USDS before starting provisioning with GUP (same issue as 873976)
USDS	7.0.3		Under investigation	provisioning	Can't register bulk gateway provisioned PUID that contains 'sip:'	Not an issue for new customers. The StoreSIPPUIDPrefix in HSS needs to be set to "Y" for GUP provisioning. USDS that have been previously used in IMS, i.e., not new customers, will have a setting of StoreSIPPUIDPrefix = N. This will cause the USDS to add a sip: to the PUID when processing a subscriber. All SIP PUID values when provisioned in GUP must have "sip:" as part of the provisioning name.

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
MGC-8	7.0.3		Under investigation	cVoIP	MGC-8 is putting phone-context in P-Asserted-ID vs. R-URI field	LNP does not work for special route cases. "A" dials x12345 and LNR says it should go someplace else and add 1+ area code. The "Phone-context" is used to represent local numbers. So to identify a globally unique destination, you need both the digits and the "phone-context". The digits themselves may not be complete numbers. Here are some examples of the R-URI: Tel: 6309792000; phone-context="+1" Tel: 92000; phone-context="+163097"
USDS	7.0.3		Under investigation	provisioning	GSP overwriting message sent by GUP fails in USDS	GSP data cannot be overwritten and IFC data in USDS cannot be updated/modified.
BTS	7.0.3		Under investigation	cdma_vcc	iMS-Charging-Identifier incorrect in mGCFRecord for IMS to PSTN call	It is not clear how these specific BTS billing records are used by customers, the full impact will need to be determined on a customer by customer basis.
IACP	7.0.3		Under investigation:	cdma_vcc	Issue with PC Client access to PCM for CDMA VCC solution	PCM deployment requires PC Client always to be present in the offer (PC Client must be primary DN for PCM). CDMA VCC requires two number Solution. (Due to PCM restriction above. DMS handset cannot be primary, since PC Client must be primary).
MGC-12	7.0.3		Under investigation	pstn	CW, Pr-Rdigit Actions 0 , 1 Fail when MGC-12/PSTN Line is B-Party, A is CW Mast.	Alternate CW (Flash and dial digit to retrieve held call or exchange active and held call, etc) will not work when one of the members of a CW scenario is a PSTN ep via MGC-12.

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
IACP	7.0.3	3.0.4.207 2	Under investigation	ca_apps	Presence Information of PCM sent by Presence Server not displayed by PC Client	The "on the phone" presence information coming from PCM is not displayed by the PC client. However, if presence is enabled in the PC client, "on the phone" is displayed by PC client itself. So problem happens only when Presence is disabled in PC client.
ISC	7.0.3	15.25.01. 06	On track for IMS 07.00.03	cvoIP_Wimax	Dereg on the last device:P-CSCF sends to ACME "destination unreachable" messages	When a user is registered on two different devices, the second device de-registration does not work and as a consequence, the user is still seen online
8670 GUP / OMC-P	7.0.3	OMC-P 12.0.2.0	On track for IMS 07.00.03	cvoIP_Wimax	GUP : PUAP deletion not possible	Impossible to delete a CTS user created by GUP
5420 PCM (LCM)	7.0.3	PCM 1.0.0 557	On track for IMS 07.00.03	cvoIP_Wimax	Impossible to set-up & activate from PCC the forwarding to number through PCM	When TEL URI is used this feature does not work
5400 IAS	IMS7.0. 3		in progress	gsm/umts_v c	alarms from 5350 and from Tomix part of the platform can't be resynchronized	VCC management from XMC in restriction
5400 IAS	IMS7.0. 3		in progress	gsm/umts_v c	Key Performance Indicators from 5400 applications can't be retrieve by XMC	VCC management from XMC in restriction
5420 VCC	IMS7.0. 3		in progress	gsm/umts_v c	With IAS55400 R 1.1.1.3, JSR289 Annotation processing default value not good	Workaround is to change manually the default value. Documented in Solution VCC release letter
5060 MGC- 10	IMS7.0. 3		in progress	gsm/umts_v c	MGC10 doesn't support FQDN resolution to route SIP messages	Workaround is to create in MGC10 a circuit group with one virtual circuit for each s-cscf / domain connected to this MCG10. Documented in solution VCC release letter
5420 VCC	IMS7.0. 3		in progress	gsm/umts_v c	If INVITE to IMRN has multiple Diversion header, VCC has to check them all	Workaround in MGC10 documented in VCC solution release letter
5420 CTS	IMS7.0. 3		in progress	gsm/umts_v c	after receiving 180 ringing session inactive VCC does not forward to LSM&MGCF	Under investigation: Call forward on busy does not work when caller is CS. It is working when caller is IMS.

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
5060 MGC-10	IMS7.0. 3		in progress	gsm/umts_vcc	no ACK message after reception OK (invite) in case of forwarded call	Multiple forward does not work: Call to an IMS user, which is forwarded (TAS) to a CS user, which is forwarded (HLR) to a VCC IMS user



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)
ICC 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), 8670 GUP, 5450 AGCF, 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
LSMS	Solaris 10 Generic_127111-09
5450 AGCF	Solaris 10 Generic_125101-10
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

There are no specific hardware requirements for this release.

Compatibility restrictions

Backward compatibility is supported for the IMS solution software upgrade sequence from IMS 06.01 to IMS 07.00.02. See the *Alcatel-Lucent Internet Protocol Multimedia Subsystem (IMS) Solution 07.00.00 Software Upgrade* document, 275-100-035R07.00.00, 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/paths

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 07.00.00 Software Upgrade 275-100-035R07.00.00*

Security hardening

There is no specific information for this release.

Acronym List



A

AAA
Authentication, Authorization, Accounting

ABN
Access Border Node

AGCF
Access Gateway Control Function

AGW
Access Gateway

AHE
Application Hosting Environment

AR
Action Register

B

BTS
Billing and Traffic System

C

CALEA
Communications Assistance for Law Enforcement Agency

CCF
Charging Collection Function

CDMA
Code Division Multiple Access

CDR
Call Detail Record

CGF
Charging Gateway Function

CMS
Change Management System

CPE
Call Processing Equipment

CSCF
Call Session Control Function

CTS
Converged Telephony Server

D

DNS
Domain Name System

E

E2E
End to End

eCCF
enhanced Charging Collection Function

EMS
Element Management System

ENUM
Telephone Numbering Mapping

eSM
Enhanced Services Manager

F

FS2500
Feature Server 2500

FS5000
Feature Server 5000 (FS5K)

G

GUI
Graphical User Interface

GUP
Generic User Profile

GPRS

General Packet Radio Service

I

IAS

IMS Application Server

ICC

Instant Convenient Charging

leCCF

Instant enhanced Charging Collection Function

IMS

IP Multimedia System

ISC

IP Session Control

ISAM-V

Intelligent Services Access Manager - V

ISDN

Integrated Service Digital Network

ISG

Intelligent Services Gateway

L

LCP

Lucent Control Platform

LIG

Lawful Intercept Gateway

LNC

Lucent Network Controller

LVF

Lucent Virtual private network Firewall

LSM

Lucent Session Manager

M

MAS

MiLife Application Server

MGC

Media Gateway Controller

MGCF

Media Gateway Control Function

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-CN

Operations and Maintenance Center – Core Network

OMC-H

Operations and Maintenance Center – Home Location Register and Home Subscriber Service

OMC-P

Operations and Maintenance Center – Plexus

P

PCM

Personal Communication Manager

PNA

Private Network Access

PS
Presence Server

PSTN
Public Switched Telephony Network

PSI
Public Service Identity

S

SAM
Service Activation Manager

SIP
Session Internet Protocol

SMS
Security Management Server

SOAP
Simple Object Access Protocol

SSC
Subscriber Services Controller

U

ULIS
Unified Lawful Interception Suite

UMTS
Universal Mobile Telecommunications System

USDS
Unified Subscriber Data System

V

VCC
Voice Call Continuity

VitalAAA
Vital Authentication Authorization Accounting

VoIP
Voice over Internet Protocol

VPN
Virtual Private Network

W

WDDF
Wireless Data Delivery Function

X

XMC
Cross-domain Management Center
