



Alcatel-Lucent

INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS) SOLUTION
07.00.03

EXTERNAL RELEASE NOTES

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275-100-
004R07.00.03
NOVEMBER 2008
ISSUE 2

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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 07.00.03, 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 07.00.03.

Reason for reissue

The IMS Release 07.00.03 Release Notes were reissued in November, 2008 to align load names in 07.00.02 and 07.00.03 for the 1440 USDS Network Element.

Intended audience

The intended audience for this document includes all personnel who need information about the IMS 07.00.03 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 07.00.03.

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.

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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

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1 Release components

Overview

Purpose

This chapter describes the loads that comprise Release 07.00.03 and the documentation deliverables included in this release.

Software deliverables

Table 1-1 lists the loads that comprise Release 07.00.03. 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 07.00.02	Load Name in IMS Release 07.00.03	Load Changed Since IMS Release 07.00.02?
1300 Cross Management Center (XMC)	R6.2.0.3	R6.2.1.5	Yes
1357 Unified Lawful Intercept Suite (ULIS)	12.3.2	12.3.2	No
1440 USDS (includes MAS/AHE)	USDS-04.03.72.06 MAS-R27SU0-p0009	USDS-04.03.72.06 MAS-R27SU0-p0009	No
5020 MGC-8 (was Lucent Network Controller (LNC), Lucent Signaling Gateway)	LGP 6-3-1-2-SP-5	LGP 6-3-1-2-SP-7-2	Yes
5020 MGC-12	MGCSX30	MGCSX30	No
5060 MGC-10	R1.1.4.1/V8_0F.3	R1.1.4.1	No
5100 CMS	CMS-1000.1.5.3	CMS-1000.1.5.3	No
5400 IMS Application Server (IAS) (Presence, XDMS)	PS41_SP2_1 XDMS41_SP2_1	JP1.1.2 XDMS41_SP3 + SP3 patch PS41_SP3 + SP3 patch	Yes
5420 Converged Telephony Server (CTS; was Lucent Feature Server 5000)	R15.25.01.05	R15.25.02.01 then apply	Yes

		R15.25.02.04	
5420 Personal Communication Manager (PCM)	PCM- R1.0.0_PH3_Build55 6.zip TP 3.0.4.18 ASR 3.3SP10.2+patch 50 Red Hat 5.1	PCM_R1_0_0_559 TP 3.0.4.19	Yes
5420 Voice Call Continuity Server (VCC)	VCC R8.0.011 IAS 5400 1.1.1.3	VCC R8.0.014 IAS 5400 1.1.1.3	Yes
5430 MultiMedia Instant Messaging (MMIM)	Not Applicable	MMIM4.0 SP1 third delivery	New
5440 IMS – PC Client	PC Client – R3.0.4- v2072-PCM	PC-Client – R3.0.4- v2153-PCM	Yes
5450 AGCF	AGCF-5-1-0R1S3 then AGCF-5-1-0R1S3P1	AGCF-5-1-0R1S3 then AGCF-5-1-0R1S3P1	No
5450 IP Session Control (ISC; was Lucent Session Manager LSM)	R15.25.01.05	R15.25.02.01 then apply R15.25.02.04	Yes
5620 Services Activation Manager (SAM) ¹	R5.0R9	R5.0R9	No
5750 Subscriber Services Controller (SSC)	Not Applicable	SSC 3.1R5 and SAC/CLF 3.1R5	New
5900 Media Resource Function (MRF)	R6.2.1	R6.3.1	Yes
7302 ISAM-V	ISAM-V-R35.213	ISAM-V-R36-112	Yes
7510 Media Gateway (MGW)	A7510_R30_05_08_2 008_B07 I6050808.pak	7510 R3.0 B10	Yes

¹ Not tested by NLT as part of IMS 07.00.00.

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-7-2	Yes
7750 Service Router	R5.0R11	R5.0R11	No
8610 Instant Convergent 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- p0807	Yes
8670 GUP	GUP-501R1S1A9	GUP-5_0_1R1S3A2	Yes
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-	eSM R26SU8 (apply the patches sequentially after the base load is	Yes

² Not tested by NLT as part of IMS 07.00.00.

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.

	01.26.08.IA	installed) PA-RISC-eSM-01.26.08.PA Itanium – eSM-01.26.08.IA⁶ eSM R26SU8 P1 eSM R26SU8 P2	
Fortinet Fortigate Firewall	3.00-b0096 (MR4)	3.00-b0096 (MR4) plus private fixes was tested by NLT. FGT_5005FA2-v300-build153-FORTINET was provided as the official load by NE (loaded but not tested by NLT)	Yes
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 then apply R15.25.02.04	Yes
Lucent Gateway Platform (LGP) Includes: <ul style="list-style-type: none"> - 5020 MGC-8 (was Lucent Network Controller (LNC), Lucent Signaling Gateway) - 7520 MGW (was Lucent Network Gateway) 	LGP 6-3-1-2-SP-5	LGP 6-3-1-2-SP-7-2	Yes
Lucent VPN Firewall (LVF)	9.2.184	9.2.184	No

OMC-P	OMC-P-12.0.2.0	OMC-P-12.0.2.3	Yes
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
Windows Mobile Client	Not Applicable	SPE-R6.0 V8.1.6.8	New
Zyxel	MAX210 M1 V3.60 (AKG.0) b21 RUNCOM 206.70.24.26.0.10	MAX210 M1 V3.60 (AKG.0) b21 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

IMS 07.00.03 Solutions	Distributed cVoIP over xDSL	Compact cVoIP over xDSL	PSTN Emulation	Wholesale Transit	Distributed cVoIP over WiMAX	Compact cVoIP over WiMAX	CDMA Voice Convergence	GSM/UMTS consumer VCC	Context Aware instant Communication
	Delivered	Delivered	Delivered	Delivered	Delivered	Delivered	Delivered	Delivered	Delivered
1300 Cross Management Center (XMC)	X	X	X		X	X	X	X	X
1357 Unified Lawful Intercept Suite (ULIS)			X				X		
1440 USDS (includes MAS/AHE)	X		X	X	X		X	X	X
5020 MGC-8 (was Lu. Network Controller (LNC), Lu. Signaling Gateway)	X	X	X	X	X	X	X	X	
5060 MGC-10	X	X	X		X	X		X	
5020 MGC-12	X		X					X	
5100 CMS	X		X		X	X	X	X	
5350 IMS Application Server (IAS) (Presence Server)					X	X			X
5420 Personal Communication Manager (PCM)	X	X	X		X	X	X	X	X
5440 IMS – PC Client	X	X	X	X	X	X	X	X	X
5450 AGCF			X						
5620 Services Activation Manager (SAM) ⁷				X			X		
5900 Media Resource Function (MRF)	X	X	X		X	X			
7302 ISAM-V	X	X	X						
7510 Media Gateway (MGW)	X	X	X					X	
7515 Media Gateway (MGW) ⁸									
7520 Media Gateway (MGW) (was Lucent Network Gateway)	X	X	X		X	X	X	X	
7750 Service Router	X	X	X						
8610 Instant Convenient Charging (ICC)	X			X					
8615 Instant enhanced Charging Collection Function (IeCCF)	X	X	X	X			X		
8670 GUP	X	X	X	X	X	X	X	X	X
8950 Vital AAA ⁹									
5420 VCC								X	
Acme Packet Net-Net EMS ¹⁰									
Acme Packet Session Director (4250)	X	X	X	X	X	X	X		X
Audicodes – IPM2K							X		
Audicodes – IPM5K ¹¹									

⁷ Not tested by NLT as part of IMS 07.00.00.

⁸ Not tested by NLT as part of IMS 07.00.00.

⁹ 8950 Vial AAA was part of the WiMAX business unit lab environment, but not specifically tested as part of IMS 07.00.00.

¹⁰ Not tested by NLT as part of IMS 07.00.00; was tested in 06.01.11.

¹¹ Audicodes – IPM5K was integration tested with CTS and ISC, it was not tested by NLT in IMS 07.00.00.

IMS 07.00.03 Solutions	Distributed cVoIP over xDSL	Compact cVoIP over xDSL	PSTN Emulation	Wholesale Transit	Distributed cVoIP over WiMAX	Compact cVoIP over WiMAX	CDMA Voice Convergence	GSM/UMTS consumer VCC	Context Aware instant Communication
	Delivered	Delivered	Delivered	Delivered	Delivered	Delivered	Delivered	Delivered	Delivered
eSM							X		
Fortinet Fortigate Firewall	X	X						X	
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) 	X	X	X	X	X	X	X	X	X
Lucent VPN Firewall (LVF)							X		
OMC-P	X	X	X	X			X		
Plexus BTS			X				X		
Security Management Software (LSMS)							X		
SS8 WDDF	X						X		
VitalQIP	X	X	X	X	X	X	X	X	X
Westell TriLink™ IMS Gateway Model 6358	X	X					X		
Zyxel					X	X			
Zyxel PCMCIA Card (used in PC Client)					X	X			

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 07.00.03.

Table 1-3 IMS 07.00.03 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

Title	Ordering number
<i>IMS Solution Release 07.00.03 Release Notes</i>	275-100-004R07.00.03
<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 07.00.03.

New features

Table 2-1 shows the new features in Release 07.00.03.

Table 2-1 New features

Feature Number	Feature Title
10928.244	IMS 7.0 End to End Provisioning NLT
33333.14	solution: wildcard PSI and PSI sub-domains
13874.10	Inter-working testing for SIP forking with ACME
13806.4	Compact IMS7.0 Solution Testing with WiMAX W3.1
13987.18	Windows Mobile and FS 5000 inter-working for supplementary services
13884.0	Presence + XDMS Network Level Test on the ALU 5300 Java Platform 1.0 (Formerly STP
13987.0	Interoperability between WM client, PC client and 5410 (ex 5350) server for Presence and

Feature Number	Feature Title
	XDM Services for IMS 7.0
13987.1	Efficient transport of large messages
13987.5	PNA for IMS access
13987.7	Network Address Book
13987.8	Search function on XDMS
13987.9	Shared Groups
13987.10	Interoperability between WM client, PC client, and 5430 for Instant Messaging Services.
13987.15	Support by client of a working mode without PS/XDMS being available
13987.16	Optimization of presence traffic for radio access.
33333.35	E2E Context Aware solution with c-IMS architecture
10928.255	XMC pull of performance files from the OMC-P, in suport of the full complement of OMC-P supported NE assets
13983.0	Integration of USDS in 1390 GUP
33333.23	solution: Emergency for TISPAN/DSL Access and 3GPP/TISPAN Core
33333.43	E2E Reliability for PSTN Emulation
33333.63	MRF 6.3 for IMS7.0 Solution
acmetbd	ACME testing as integrated S/BC (not as decomposed S/BC with RACF)
ccfsu7tbd	IeCCF R26SU7
pcmatcatbd	PCM on aTCA
pcmpcctbd	PCM, PC Client dependency resolution - impact on CDMA VCC 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 07.00.03 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>Compact Context Aware</i>	100%	100%	Reached
<i>Compact cVoIP over WiMAX</i>	100%	100%	Reached
<i>cVoIP over GSM/UMTS</i>	100%	97%	Reached
<i>GSM/UMTS Voice Call Continuity Single mode SFR</i>	100%	98%	Reached
<i>Distributed Context Aware PS/ATCA and MMIM</i>	100%	96%	Reached
<i>IPTC E2E provisioning under load</i>			GUP bulk provisioning using BDH too slow. Mitigation is to use OSS via GUP northbound Rg i/f). SFR has already certification tested with their OSS and the GUP Rg Itf.
<i>CVoIP & PES E2E CPRS</i>	100%	94%	AGCF provisioning issue. AGCF can not deassign blocks of lines for group over 1000 lines. Workaround = For groups over 1000, must delete one line at a time.
<i>dIMS xDSL CVoIP</i>	100%	97%	Reached
<i>E2E OAM</i>	100%	97%	Reached
<i>dIMS PSTN Emu with ISAM v3.6</i>	100%	100%	Reached
<i>CORE Regression</i>	100%	99%	Reached
<i>CDMA - Consumer VCC</i>	100%	98%	Reached
<i>total</i>	100%	98%	

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

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 RIs	Fixed in Load	Current Status	Solution(s)	Exception Description
USDS	7.0.3	USDS R7.2Patch01	Solved in IMS 07.00.03	provisioning	GUP does not encrypt MD5 password before storing it on USDS
OMC-P-LCP	7.0.3	GUP-501-R1S1	Solved in IMS 07.00.03	provisioning	OMC-P FS5K Primary ID is blank when adding a subscriber with GUP
USDS	7.0.3	USDS R7.2 patch01 load	Solved in IMS 07.00.03	provisioning	GUP does not send any values and then USDS must accept the message
ISC	7.0.3	15.25.01.06	Solved in IMS 07.00.03	CPRS	Call load causes cpiMGCTransactionRetransmitted alarms from H.248DS
8670 GUP	7.0.3	GUP-501-R1S1	Solved in IMS 07.00.03	provisioning	GroupSearchServices is optional in the adxml file, but GUP is still requesting
8670 GUP	7.0.3	GUP-501-R1S1	Solved in IMS 07.00.03	provisioning	RAInstance ID action Modify or Delete needs check if in use by other tables.
5020 MGC-8	7.0.3	6.3.1.2.SP.7	Solved in IMS 07.00.03	PES	CW, Pr-Rdigit Actions 0 , 1 Fail when MGC-8/PSTN Line is B-Party, A is CW Master
MGC-8	7.0.3	documented in the MGC-8 installation guide	Solved in IMS 07.00.03	cvoIP_Wimax	IAM Message with "hop counter" IE refused by Plexus
CTS	7.0.3	15.25.02.01	Solved in IMS 07.00.03	PES	OMC-P not accept the AGCF PRID format */# - can not enter users data into iHSS
USDS	7.0.3	Resolved by doc. change	Solved in IMS 07.00.03	provisioning	FS5k provisioning fails with GUP if "sip: storing in DB" is set to "N" in USDS
USDS	7.0.3	Resolved by doc. change	Solved in IMS 07.00.03	provisioning	Can't register bulk gateway provisioned PUID that contains 'sip:'
MGC-8	7.0.3	Resolved by config changes provided by NE	Solved in IMS 07.00.03	cVoIP	MGC-8 is putting phone-context in P-Asserted-ID vs. R-URI field
USDS	7.0.3	Resolved by config changes provided by NE	Solved in IMS 07.00.03	provisioning	GSP overwriting message sent by GUP fails in USDS
ISC	7.0.3	R15.25.02.03	Solved in IMS 07.00.03	cdma_vcc	iMS-Charging-Identifier incorrect in mGCFRecord for IMS to PSTN call

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description
IACP	7.0.3	Resolved with solution requirement change	Solved in IMS 07.00.03	cdma_vcc	Issue with PC Client access to PCM for CDMA VCC solution
IACP	7.0.3	3.0.4.2125	Solved in IMS 07.00.03	ca_apps	Presence Information of PCM sent by Presence Server not displayed by PC Client
ISC	7.0.3	15.25.02.01	Solved in IMS 07.00.03	cvolP_Wimax	Dereg on the last device:P-CSCF sends to ACME "destination unreachable" messages
8670 GUP	7.0.3	R1S2A1	Solved in IMS 07.00.03	cvolP_Wimax	GUP : PUAP deletion not possible
5420 PCM (LCM)	7.0.3	PCM 1.0.0 557	Solved in IMS 07.00.03	cvolP_Wimax	Impossible to set-up & activate from PCC the forwarding to number through PCM
5400 IAS	IMS7.0.3	NE doc updated	Solved in IMS 07.00.03	gsm/umts_vcc	alarms from 5350 and from Tomix part of the platform can't be resynchronized
5400 IAS	IMS7.0.3	Lab config issue	Solved in IMS 07.00.03	gsm/umts_vcc	Key Performance Indicators from 5400 applications can't be retrieve by XMC
5420 VCC	IMS7.0.3	VCC 8.0.013	Solved in IMS 07.00.03	gsm/umts_vcc	If INVITE to IMRN has multiple Diversion header, VCC has to check them all
5420 CTS	IMS7.0.3	Issue was with VCC	Solved in IMS 07.00.03	gsm/umts_vcc	after receiving 180 ringing session inactive VCC does not forward to LSM&MGCF
5060 MGC-10	IMS7.0.3	Issue was with VCC	Solved in IMS 07.00.03	gsm/umts_vcc	no ACK message after reception OK (invite) in case of forwarded call

6 Known issues



Overview

Purpose

This chapter describes NLT-reported issues that remain open in Release 07.00.03.

Known issues and workarounds

As of July 31, 2008, 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 from IMS 07.00.00

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
5420 PCM	Under investigation		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.
USDS	Under investigation		Under investigation	provisioning	Query of PRID fails when the username contains '/'	PRID values containing a "/" cannot be queried/modified/deleted.
5420 VCC	IMS7.1		Targeted IMS 7.1	gsm/umts_vcc	With IAS55400 R 1.1.1.3, JSR289 Annotation processing default value not good	Workaround is to change manually the default value.

Table 6-2 NLT-Reported severity 1 and 2 open issues from IMS 07.00.03

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
USDS	Under investigation		investigation in progress	sub_provision	Extension of an existing PRID with a new D_PRID2PUIDAssoc fails	When creating the same PUID with in a different PRID (SIP forking) via GUP the creation failed with error 'PUID already exists'.
USDS	Under investigation		investigation in progress	sub_provision	Remove PUID2PRIDAssoc fails	If 'create' is fixed (876516) then 'remove' does not work. Workaround = Delete all the data on a subscriber and re-provision.
USDS	Under investigation		investigation in progress	sub_provision	modification of authentication type not possible	Can not change authentication requirement settings on subscribers. To make this change you have to delete the subscriber and re-add them.
Westell	Under investigation		investigation in progress	cdma_vcc	SIP messages from PC Client stop being sent when ALG is configured	If ALG process is turned off to keep SIP running, then "Barge In (Extension bridging feature)" will not work. Workaround = Set the Proxy address of the PC client to the LAN address of the Westell Gateway (192.168.1.1) and port to 15060.
1300 XMC	IMS7.1		fixed targeted to XMC-6.2.1.5	core	XMC not receiving alarms from OMC-P	LCP > OMC-P > XMC still an exception. XMC fix provided in XMC-6.2.1.5 (IMS7.1 load). OMC-P fix (878113) is provided in OMC-P R13. Workaround = use LCP > XMC.
8670 GUP	IMS7.1	fixed in GUP501 R1S4A1	on track for 7.1	sub_provision	Feature Outgoing call barring not in the acronyms on the GUP	The OMC-P "Outgoing Call Barring" feature is not mapped to a C_ASD on the GUP. Customer Impact - Can not use GUP to assign the feature.
8670 GUP	IMS7.1	in GUP501 R1S4A1	on track for 7.1	sub_provision	Roll back of GSP overwrite when PUAP failed	When a PUAP failure happens the GUP will not roll back the GSP overwrite. So the change to GSP will stay changed.

NE to Lead	Resolve Rls	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
5420 PCM	Under investigation		under investigation	cims_cvoip_xdsl	When no SIP response received, PCM will become busy, can not initiate any call	Seeing an intermittent problem in the NLT lab. When click-to-dial call is denied, timers do not clean up the call so no new calls can be placed. PCM needs to be re-initialized to clean up. PCM team see this only with long duration calls.
5450 AGCF	Under investigation	targeted for AGCF-511	under investigation	pstn	Agcf rp server core dumps seen during deassignment of agw with 2000 lines	AGCF provisioning issue. AGCF can not deassign blocks of lines. Workaround = Must delete one line at a time or core dumps are seen.
8670 GUP	IMS 7.1		On track for IMS 7.1	cvoip_wimax, sub_provision	GUP (cluster) doesn't send SOAP request on Rp interface	Workaround documented in cVoIP over WIMAX solution release letter.
5060 MGC-10	Under investigation		Under investigation	gsm/umts_vcc	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 MGC10.
IACP	IMS7.1		Targeted to IMS 7.1	ca_apps	No menu available to read the deferred messages stored in the IM server	IM message cannot be delivered in deferred mode when destination is coming online again
IACP	IMS7.1		Targeted in IMS 7.1	ca_apps	one of two devices chooses "off line" status : he becomes again "on line"	Status "online – offline" appears not consistent when the same user is registered on 2 different devices and status is changed on one the two devices
ACME 4250	IMS7.1		Targeted in IMS 7.1	ca_apps	issue on IM chat session: Conf-Id in the contact header overwritten by ACME	Workaround consists in SIP manipulation in the ACME documented in Context Aware solution release letter. Moreover MSRP is not passing through the ACME
IWMC	IMS7.1		Targeted to IMS 7.1	ca_apps	interop : WM SPE does not correctly answer to an incoming file transfer from PCC	MMIM inter-working between PC client & WM client is not available
5420 VCC	IMS7.1		Targeted to IMS 7.1	gsm/umts_vcc	The snmpd daemon for 5350 does not start and does not use OAM VIP	Workaround consists in adding a route to XMC with IAS5400 VIP as source address, documented in VCC solution release letter

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
IWMC	IMS7.1		Targeted to IMS 7.1	ca_apps	one of two devices chooses "off line" status : he becomes again "on line"	Status "online – offline" appears not consistent when the same user is registered on 2 different devices and status is changed on one the two devices
IWMC	IMS7.1		Targeted to IMS 7.1	ca_apps	WM SPE removes the display names in resource files	If the same customer uses both PCC and WM devices, he will loose all the display name of his contacts on PCC screen, he will see only the presence status (ex: on line, happy, at work) and a blank instead of the display name
5420 VCC	IMS7.1		On track for IMS 7.1	gsm/umts_vcc	If INVITE has multiple Diversion headers and first is not VCC user, VCC doesn't work	Multiple call forward does not work
IWMC	IMS7.1		Targeted to IMS 7.1	ca_apps	File Transfer of big file where originator is not the one opening the session does not work	More than 1 Mbytes file transfer does not work in the case file transfer is not initiated by the originator.
5420 VCC	Under investigation		Under investigation	gsm/umts_vcc	MAS alarms are cleared after 5s even if problem remains	Alarms management inconsistent
5420 VCC	IMS7.1		On track for IMS 7.1	gsm/umts_vcc	VCC doesn't support options in P-Asserted-Id URI	Dual Mode VCC not part of IMS 7.0 DR5
5420 VCC	IMS7.1		Targeted to IMS 7.1	gsm/umts_vcc	If Sh is used, VCC doesn't use the default SCSCF	Dual Mode VCC not part of IMS 7.0 DR5
5420 VCC	IMS7.1		On track for IMS 7.1	gsm/umts_vcc	Inward handover GSM to WiFi doesn't work	Dual Mode VCC not part of IMS 7.0 DR5



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 07.00.03. 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

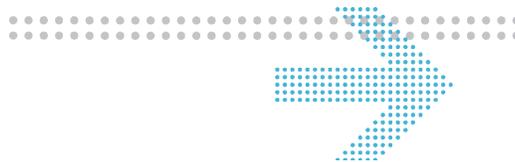
The following solution-level document describes the recommended installation and upgrade sequence for the IMS network elements:

- *Alcatel-Lucent Internet Protocol Multimedia Subsystem (IMS) Solution 07.00.00 Software Upgrade 275-100-035R07.00.00*

Security hardening

Security hardening procedures and information for IMS Release 07.00.00 NEs are on OLCS. Go to: <https://services.support.lucent.com/services/>, click on IMS Solutions, then click on Security Hardening IMS Release 07.00.00. From this page, you can click on each NE for security hardening details.

Acronym List



A

AAA

Authentication, Authorization, Accounting

ABN

Access Border Node

AGCF

Access Gateway Control Function

ATCA

Advanced Telecommunications Computing Architecture

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

CVoIP
Consumer Voice over IP

CW
Call Waiting

D

DNS
Domain Name System

DSL
Digital Subscriber Line

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

GPRS

General Packet Radio Service

GSM

Global System for Mobile Communications

GUI

Graphical User Interface

GUP

Generic User Profile

I

IAS

IMS Application Server

ICC

Instant Convergent 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

IWMC

IMS Windows Mobile Client

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

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-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

T

TISPAN
Telecom Internet converged Service & Protocols for Advanced Networks

U

ULIS
Unified Lawful Intercept 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

WiMAX
Worldwide Interoperability of Microwave Access

WM
Windows Mobile

X

XDMS
XML Document Management Services

XMC
Cross-domain Management Center
