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IP MULTIMEDIA SUBSYSTEM RELEASE 07.06.01

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 07.06.01, 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 07.06.01.

## Reason for revision

This is the first issue of the IMS Release 07.06.01 Release Notes document.

## Intended audience

The intended audience for this document includes all personnel who need information about the IMS 07.06.01 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 07.06.01.

## 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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## How to order

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# 1 Release components

## Overview

### Purpose

This chapter describes the software loads that comprise Release 07.06.01 and the documentation deliverables included in this release.

## Software deliverables

Table 1-1 lists the loads that comprise Release 07.06.01. New or changed load names are shown in bold-face type.

**Table 1-1 Software release identification**

<b>Network Element/Application</b>	<b>Load Name in IMS 07.06.00</b>	<b>Load Name in IMS 07.06.01</b>	<b>Load Changed Since IMS 07.06.00?</b>
<b>1300 Cross Management Center (XMC)</b>	R7.0.0.3 + IAP01  (also required OS upgrade 4.3 to 5.3)  Due to OS change, instead of upgrade a fresh installation with backup/restore procedures has been done.	<b>R7.0.0.4 + IAP04</b>	<b>Yes</b>
<b>1310 Operations and Maintenance Console – Provisioning (OMC-P)</b>	OMC-P R14.00.00.01	<b>OMC-P14_01_02_00</b>	<b>Yes</b>
<b>1357 Unified Lawful Intercept Suite (ULIS) Lawful Interception Gateway (LIG)</b>	R12.3.6	<b>R12.4.2</b>	<b>Yes</b>
1440 Unified Subscriber Data Server (USDS) (Includes MAS/AHE)	R7.3 SPA: h1r7.3.n04.upd72.01 MAS: ltmarsr27-p0207  Then upgrade to: 1440 USDS R7.3 P01 MAS R27 SU2 Patch (ltmasr27-p0214)	R7.3 SPA: h1r7.3.n04.upd72.01 MAS: ltmarsr27-p0207  Then upgrade to: 1440 USDS R7.3 P01 MAS R27 SU2 Patch (ltmasr27-p0214)	No
<b>5020 Media Gateway Controller – 8 (MGC-8)</b>	LGP-7.0.0.1	<b>LGP7-0-0-3 SP6</b>	<b>Yes</b>
<b>5100 Converged Messaging System (CMS)</b>	CMS-10SU4 (must be a minimum of build 1000.40.037)	<b>CMS-10SU4 (must be a minimum of build 1000.40.038)</b>	<b>Yes</b>
<b>5420 Converged Telephony Server (CTS)</b>	R18.22.00.00 Plus Patch: R18.22.00.05	<b>R18.28.01.00</b>  <b>Plus Patch: R18.28.01.02</b>	<b>Yes</b>
<b>5440 IMS-PC Client</b>	5440_PCC_r4.0 (non-PCM) Load 4.0.0.2315	<b>5440_PCC_r4.1.0_2364_n onpcm</b>	<b>Yes</b>
<b>5450 Access Gateway Control Function (AGCF)</b>	AGCF-5-1-1 R1S3  Then patch to AGCF511R1S3P1	<b>AGCF5_1_2R1S2 + AGCF5_1_2R1S2P1</b>	<b>Yes</b>

<b>Network Element/Application</b>	<b>Load Name in IMS 07.06.00</b>	<b>Load Name in IMS 07.06.01</b>	<b>Load Changed Since IMS 07.06.00?</b>
<b>5450 IP Session Control (ISC)/ IP Resource Controller (IRC) (includes iAGCF)</b>	R18.22.00.00 Plus Patch: R18.22.00.05	<b>R18.28.01.00</b>  <b>Plus Patch: R18.28.01.02</b>	<b>Yes</b>
5750 Subscriber Services Controller (SSC)	SSC 3.1R5 and SAC/CLF 3.1R5	SSC 3.1R5 and SAC/CLF 3.1R5	No
5900 Media Resource Function (MRF)	MRF7.0.2	MRF7.0.2	No
<b>7302 Intelligent Services Access Manager (ISAM) -V</b>	ISAM-V-R40 R 40.126  Plus  R 4.0.0.a (load 40.129)	<b>ISAM-V-R40 R 40.129</b>  <b>Plus</b>  <b>R 4.0.0.a (load 40.132)</b>	<b>Yes</b>
<b>7510 Media Gateway (MGW)</b>	7510 R3.1SP2  (R31N_07_05_2009_B06)	<b>7510 R32_10_23_2009_B01 (for IPv6)</b>  <b>A7510_R31N_10_09_2009_B08 (for IPv4)</b>	<b>Yes</b>
7515 Media Gateway (MGW)	7515m2.4B0120	7515m2.4B0120	No
<b>7515 SIP-MGW</b>	7515R3.1S B0105 <sup>1</sup>	<b>7515R31S B0110</b>	<b>New</b>
<b>7520 Media Gateway (MGW)</b>	LGP-7.0.0.1	<b>LGP7-0-0-3 SP6</b>	<b>Yes</b>
7750 Service Router	7750_R6.0_R9	7750_R6.0_R9	No
8610 Instant Convergent Charging (ICC)	ICC462-MD02-DR4	ICCR462MD02	No
<b>8615 Instant enhanced Charging Collection Function (leCCF)</b>	leCCF 27.5 hotslide00101  MAS -> ltmarsr27-p0219  N440 Hardware & T2000 Hardware	<b>leCCF 276 Mapdata script leCCF 27.6 hotslide0101</b>	<b>Yes</b>
<b>8920 Service Quality Manager (SQM)</b>	Not Applicable	<b>R3.7.6</b>	<b>New</b>
<b>8950 Services Activation Manager (SAM) (HP/HP-UX Platform)</b>	Not Applicable	<b>R15.5.5</b>	<b>New</b>
<b>Acme Packet Session Director (4250)</b>	C5.1.1p23	<b>C6.10M2</b>	<b>Yes</b>
enhanced Service Manager (eSM)	eSM R26 SU9	eSM R26 SU9	No
Fortinet Fortigate Firewall	v3.0.MR5.8108	v3.0.MR5.8108	No

<sup>1</sup> 7515 SIP-MGW cannot be combined with a 7515 MGW on the same equipment.

Network Element/Application	Load Name in IMS 07.06.00	Load Name in IMS 07.06.01	Load Changed Since IMS 07.06.00?
<b>Gateway Platform</b> <b>Includes:</b> - 5020 MGC - 5025 Voice Signaling Gateway - 7520 MGW	LGP-7.0.0.1	LGP7-0-0-3 SP6	Yes
<b>Lucent Communication Manager (LCM)</b>	Not Applicable	<b>R6.3.6 (bld.201)</b>	<b>New</b>
OXE OmniPCX Enterprise	R9.0-h1.301-28-b-us-c80s1	R9.0-h1.301-28-b-us-c80s1	No
Billing and Traffic System (BTS)	BTS_7.0.0.0.14	BTS_7.0.0.0.14	No
VitalQIP	VitalQIP R7.2 DNS R4.1 Build 11 ENUM R1.3	VitalQIP R7.2 DNS R4.1 Build 11 ENUM R1.3	No

## How to obtain software

Please contact your Alcatel-Lucent representative to obtain software.

## Document deliverables

Table 1-2 shows the solution documentation available for IMS Release 07.06.001.

**Table 1-2 IMS 07.06.1 solution documentation**

Title	Ordering number
<i>IMS Release 07.06.00 Solution Technical Description</i>	275-100-000R07.06.00
<i>IMS Release 07.06.00 Solution Operations, Administration, Maintenance, &amp; Provisioning</i>	275-100-001R07.06.00
<i>IMS Release 07.06.10 Solution Release Notes</i>	275-100-004R07.06.01
<i>IMS Release 07.06.00 Software Upgrade</i>	275-100-035R07.06.00

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Title	Ordering number
<i>IMS Release 07.06.00 Interface Changes Specifications</i>	275-100-050R07.06.00
<i>IMS Release 07.06.00 Solution System Parameters</i>	275-100-057R07.06.00
<i>IMS Release 07.06.00 Solution Ports and Protocols</i>	275-100-058R07.06.00
<i>IMS Release 07.06.00 Solution Growth</i>	275-100-059R07.06.00

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:

1. Go to (<https://services.support.alcatel-lucent.com/services/ims/>).
2. 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 07.06.01.

## New features

The following features are included in this release:

**Table 2-1 Features released in 07.06.01**

<b>Feature Number</b>	<b>Feature Title</b>
33333.25	ALU IMS business trunking solution for ISDN-PBX using wildcard PUID
33333.28	IMS Solution: Subscription Locator Function (SLF)
33333.87	IMS 8.x Interoperability Testing with IMS 7.x Components for CVoIP
33333.173	Alcatel-Lucent Border Solution Testing – IMS 8.3/7.6
33333.180	IP Peering Border Solution Testing
33333.182	CVoIP Solution End-to-End Subscriber Provisioning Validation - Regression Test Only
33333.191	IMS Solution Level Testing of Geographic Redundancy
33333.201	IMS 8.3 Codenomicon & DOS NLT Testing
33333.244	E2E Solution Testing of LCM Upsynch to OMC-P Using Bulk Synch

**Table 2-2 Features released in 07.06.00**

<b>Feature Number</b>	<b>Feature Title</b>
33333.25	ALU IMS business trunking solution for ISDN-PBX using wildcard PUID
33333.185	Capacity testing for IMS 8.3/7.6
33333.187	E2E Performance, Reliability, Stability testing for IMS 8.3/7.6
33333.195	IMS Solution: E2E Testing of 5420 CTS Service Enhancements
33333.213	IMS Solution: Class 5 PSTN Emulation Subsystem Services
33333.216	IMS Solution Level Software Upgrade Development and Test for IMS 7.4 to IMS 7.6 Software Upgrade Path
33333.232	Solution: Distributed IMS Consumer VoIP (CVoIP)
33333.234	IMS Solution: PBX Support Enhancements

## 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 07.06.01 test program. See Table 6-1 for exceptions.

Table 3-1 NLT test results

<b>Solution</b>	<b>Progress Rate</b>	<b>Quality (Pass Rate)</b>	<b>Exit Criteria Status (Reached/Not Reached)</b>
<i>CVoIP Solution</i>	100%	97.2%	Reached
<i>PES Solution</i>	100%	97.1%	Reached
<i>Core</i>	100%	98.9%	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 in this release.

## Interface changes

### Changes to Northbound Interfaces

The following document describes the Northbound interface changes for the 1300 XMC:

- *Alcatel-Lucent 1300 XMC SNMP Alarm Forwarding, 3BL59971GCCAPCZAA* (See Appendix A)

The following document describes the Northbound interface changes for the 5100 CMS:

- *5100 CMS (Converged Messaging System) Release 10.4 Documentation, 270-715-123R10.4* (See Chapter 3)

The following document describes the Northbound interface changes for the 5420 CTS:

- *Alcatel-Lucent Control Platform 1800/1000/5400 Release 18.0 Charging Interface Specification, 275-900-393R18.0* (See Chapter 5)

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The following documents describe the Northbound interface changes for the 5900 MRF:

- *MRF Statistics Dictionary, 3AT34450AAAPDTZZA*
- *MRF Alarms Dictionary – User Guide, 3AT34450AAAGDTZZA*

The following document describes the Northbound interface changes for the 8615 IeCCF:

- *8615 Instant Enhanced Charging Collection Function (IeCCF) R27.6 IMS Offline Charging Interface specification, 270-725-059R27.6*

The following document describes the Northbound interface changes for the BTS:

- *Alcatel-Lucent Gateway Platform Release 7.0.0.0.14 Billing and Traffic System (BTS) Release Notes, 255-400-404R7.0.0.0.14 (See Appendix A)*

You can also refer to the following solution-level document additional information about interface changes for IMS 07.06.00 Network Elements:

- *IP Multimedia Subsystem Release 07.06.00 Solution Interface Changes Specifications, 275-100-050R07.06.00*

## Changes to Southbound Interfaces

Please consult the NE-specific documentation for southbound interface changes in this release.

## Alarm changes

Please consult the NE-specific documentation for alarm changes in this release.

## Message changes

Please consult the NE-specific documentation for new messages or changes to messages in this release.

## Port changes

The following document describes the port changes for the 1310 OMC-P:

- 
- *Alcatel-Lucent 1310 OMC-P Server Management & System Administration Guide, 255-400-423R14.0* (See Chapter 6)

The following document describes the port changes for the 5100 CMS:

- *5100 CMS (Converged Messaging System) Release 10.4 Documentation, 270-715-123R10.4* (See Chapter 3)

The following document describes the port changes for the 5420 CTS:

- *1310 OMC-P for Alcatel-Lucent Control Platform User Guide for Managing the 5420 CTS & 5450 IP Session Control Function, 25-400-420R14.1* (See Chapter 4)

The following document describes the port changes for the 5900 MRF:

- *IP Multimedia Subsystem (IMS) Release 07.06.00 Solution Ports and Protocols, 275-100-058R07.06.00*

The following document describes the port changes for the 8615 IeCCF:

- *8615 Instant Enhanced Charging Collection Function (IeCCF) R27.6 IMS Offline Charging Interface specification, 270-725-059R27.6*

You can also refer to the following solution-level document additional information about port changes for IMS 07.06.00 Network Elements:

- *IP Multimedia Subsystem (IMS) Release 07.06.00 Solution Ports and Protocols, 275-100-058R07.06.00*

## Protocol changes

The following document describes the protocol changes for the 5100 CMS:

- *5100 CMS (Converged Messaging System) Release 10.4 Documentation, 270-715-123R10.4* (See Chapter 3)

The following document describes the protocol changes for the 5420 CTS:

- *1310 OMC-P for Alcatel-Lucent Control Platform User Guide for Managing the 5420 CTS & 5450 IP Session Control Function, 255-400-420R14.1* (See Chapter 4)

The following document describes the protocol changes for the 5900 MRF:

- *IP Multimedia Subsystem (IMS) Release 07.06.00 Solution Ports and Protocols, 275-100-058R07.06.00*

The following document describes the protocol changes for the 8615 IeCCF:

- 
- *8615 Instant Enhanced Charging Collection Function (IeCCF) R27.6 IMS Offline Charging Interface specification, 270-725-059R27.6*

You can also refer to the following solution-level document additional information about protocol changes for IMS 07.06.00 Network Elements:

- *IP Multimedia Subsystem (IMS) Release 07.06.00 Solution Ports and Protocols, 275-100-058R07.06.00*

## System parameter changes

The following document describes the system parameter changes for the 1310 OMC-P:

- *Alcatel-Lucent 1310 OMC-P for Alcatel-Lucent Gateway Platform Management User Guide, 255-400-400R14.0 (See the section Reason for Revision)*

The following document describes the system parameter changes for the 5100 CMS:

- *5100 CMS (Converged Messaging System) Release 10.4 Documentation, 270-715-123R10.4 (See Chapter 3)*

The following document describes the system parameter changes for the 5420 CTS:

- *Alcatel-Lucent 5420 Converged Telephony System (CTS) Release 6.2 Application User Guide, 275-900-366R6.2 (See Chapter 5)*

The following document describes the system parameter changes for the 5900 MRF:

- *IP Multimedia Subsystem (IMS) Release 07.06.00 Solution System Parameters, 275-100-057R07.06.00*

The following document describes the system parameter changes for the 7302 ISAM-V:

- *CLI Command Guide, 3HH-04416-DAAA-TCZZA (See Chart 37)*

The following document describes the system parameter changes for the 8615 IeCCF:

- *8615 Instant Enhanced Charging Collection Function (IeCCF) R27.6 IMS Offline Charging Interface specification, 270-725-059R27.6*

You can also refer to the following solution-level document additional information about system parameter changes for IMS 07.06.00 Network Elements:

- *IP Multimedia Subsystem (IMS) Release 07.06.00 Solution System Parameters, 275-100-057R07.06.00*



# 5 Resolved issues

## Overview

### Purpose

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

## Resolved issues

This section lists s 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 RIs	Fixed in Load	Current Status	Solution(s)	Exception Description
8650 SDM	IMS08.03.01	SDM R2.1 SU1 IAP001	Resolved	sub_provision, install/upgrade	SDM: R2.1SU1 table GlobalFC error in provisioning.
5900 MRF, CTS	Not Applicable	Not Applicable	Resolved no change, lab issue	cvoip_xdsl, pstn	Music On Hold and some announcements sometimes not heard; MRF responds 491 to INFO.
ISC	IMS08.03.01	18.28.01.01	Resolved in ISC r18.28.01.01	pstn	AGW registrations with high background call load. M-PPR download stops at random.
MGC-8	IMS08.03.01	LGP 7.0.0.3	Resolved in LGP 7.0.0.3	ip_xform	INVITE From header should not have user=phone for non digit. PSTN (MGC-8) –to- ISDN Failed (Presentation Restricted/Unavailable).

# 6 Known issues



## Overview

### Purpose

This chapter describes NLT-reported issues that remain open in Release 07.06.01.

## Known issues and workarounds

As of January 2010, 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 from IMS 07.06.00 that were not resolved in the network element loads that are part of this release.

**Table 6-1 NLT-reported severity 2 open issues from IMS 07.06.01**

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
7510 MGW	IMS8.3 maintenance	A7510_R31 N_11_27_20 09_B09	Fix is available to be tested for IMS8.3 Maintenance	core	7510MGW does not have enough RTP resource after second SCM takeover.	If a second SCM board failover occurs too soon before the synch of information after the first SCM board failover, there will not be enough RTP resources to continue call processing.
7515 MGW	Under Investigation	Under Investigation	Under Investigation	core	On XMC, 7515MGW PM data error occurred & 7515 MGW alarm also can't be displayed.	XMC cannot monitor the 7515 successfully in IMS 8.3. Interface mismatch between 7515 and XMC, limited PM and FM available.
MGC-8	Under Investigation	Under Investigation	Under Investigation	cvoip_xdsl	MGC8/BTS not recording calling/called party in CDRS for non-e164 sip uri.	Billing records are not available for a non-E164 SIP URI in a Peering scenario with an MGC-8 IBCF (incoming call to IMS from the Peer and an outgoing call from IMS to the Peer with a non-E164 SIP URI).

Table 6-2 NLT-reported severity 2 open issues from IMS 07.06.00

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
5900 MRF	IMS9.0	MRF 7.0.4	Under Investigation	cvoip_xdsl	MRF - G726-32 codec MRF should offer payload type = 2 to Invite W/O SDP.	MRF supports G.726-32 codec with dynamic payload. MGWs, such as the 7520, which require a payload of "2" will cause certain scenarios, such as conference call to fail.
ISAM-V	IMS9.0	r4003	Targeted for January 2010	psn	ISAM-V VGW does not support TCP and does not send the required message indicating that to the core, therefore, calls will fail when packet size is larger than 1300bytes.	TCP/UDP switching has to be disabled in the ISC to fully support ISAM-V in the network. Once a packet reaches 1300 bytes, P-CSCF will switch to TCP transmission. ISAM-V only supports UDP so calls fail. The particular situation where this was discovered was interworking with MRF and such services that cause large messages such as 3-way calling. WORKAROUND: Disable TCP/UDP switching or limit the number of codecs installed on the MRF.





# 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)

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

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## 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_127111-09
BTS	Solaris 10 Generic_127111-09

## Software licensing keys

This section does not apply to 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.

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## Compatibility restrictions

Backward compatibility is supported for the IMS solution software upgrade sequence from IMS 07.06.00 to IMS 07.06.01. See the *Alcatel-Lucent Internet Protocol Multimedia Subsystem (IMS) Solution 07.06.00 Software Upgrade* document, 275-100-035R07.06.00, 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 07.06.00 Software Upgrade 275-100-035R07.06.00*

Refer to the NE documentation for specific software upgrade information.

## Upgrade paths

Upgrade to IMS 07.06.01 is supported from IMS 07.06.00. Network Elements may require multiple transitions to go from IMS 07.06.00 to IMS 07.06.01; refer to the specific NE documentation for further details.

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## Security hardening

Security hardening procedures and information for IMS Release 07.06 NEs are on OLCS. Go to: <https://services.support.alcatel-lucent.com/services/ims/>, then click on Security Hardening IMS Release 07.06.00/08.03.00. 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



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## A

**AGCF**  
Access Gateway Control Function

**ATCA**  
Advanced Telecommunications Computing Architecture

**AR**  
Action Register

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## B

**BTS**  
Billing and Traffic System

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## C

**CMS**  
Change Management System

**CTS**  
Converged Telephony Server

**CVoIP**  
Consumer Voice over IP

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## D

**DNS**  
Domain Name System

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## E

**eSM**  
enhanced Service Manager

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## F

**FS**  
Feature Server

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## G

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**GUI**  
Graphical User Interface

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**H**

**HSS**  
Home Subscriber Server

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**I**

**ICC**  
Instant Convergent Charging

**IeCCF**  
Instant enhanced Charging Collection Function

**IMS**  
IP Multimedia System

**IRC**  
IP Resource Control

**ISAM**  
Intelligent Services Access Manager

**ISC**  
IP Session Control

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**L**

**LCM**  
Lucent Communication Manager

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**M**

**MGC**  
Media Gateway Controller

**MGW**  
Media Gateway

**MRF**  
Media Resource Function

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**N**

**NE**  
Network Element

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**NLT**  
Network Level Test

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**O**

**OAM**  
Operations, Administration, Maintenance

**OLCS**  
OnLine Customer Support

**OMC-P**  
Operations and Maintenance Console – Provisioning

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**P**

**PES**  
PSTN Emulation Solution

**PCM**  
Personal Communication Manager

**PSTN**  
Public Switched Telephony Network

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**S**

**SAM**  
Services Activation Manager

**SDM**  
Subscriber Data Manager

**SQM**  
Service Quality Manager

**SSC**  
Subscriber Services Controller

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**U**

**ULIS**  
Unified Lawful Intercept Suite

**USDS**  
Unified Subscriber Data Server

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**V**

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**VoIP**  
Voice over Internet Protocol

**VSG**  
Voice Signaling Gateway

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**X**

**XMC**  
Cross-domain Management Center

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