



# Alcatel-Lucent

IP MULTIMEDIA SUBSYSTEM RELEASE 07.06.00

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 07.06.00, 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 07.06.00.

## Reason for revision

This is the first issue of the IMS Release 07.06.00 Release Notes document.

## Intended audience

The intended audience for this document includes all personnel who need information about the IMS 07.06.00 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 07.06.00.

## 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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## How to comment

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# 1 Release components

## Overview

### Purpose

This chapter describes the software loads that comprise Release 07.06.00 and the documentation deliverables included in this release.

## Software deliverables

Table 1-1 lists the loads that comprise Release 07.06.00. 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 07.04.01</b>	<b>Load Name in IMS 07.06.00</b>	<b>Load Changed Since IMS 07.04.01?</b>
<b>1300 Cross Management Center (XMC)</b>	1300 XMC R6.2.2.5  Plus 1300 XMC R6.2.2.5 IAP 01	<b>R7.0.0.3 + IAP01</b>	<b>Yes</b>
<b>1310 Operations and Maintenance Console – Provisioning (OMC-P)</b>	OMC-P13_02_00_01	<b>OMC-P14.00.00.01</b>	<b>Yes</b>
<b>1357 Unified Lawful Intercept Suite (ULIS) Lawful Interception Gateway (LIG)</b>	R12.3.5 ed.2	<b>R12.3.6</b>	<b>Yes</b>
1440 Unified Subscriber Data Server (USDS) (Includes MAS/AHE)	R7.3 SPA: h1r7.3.n04.upd72.01 MAS: ltmasr27-p0207  Then upgrade to: 1440 USDS R7.3 P01 MAS R27 SU2 Patch (ltmasr27-p0214)	R7.3 SPA: h1r7.3.n04.upd72.01 MAS: ltmasr27-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-6-4-0-5-SP-1-2	<b>LGP-7.0.0.1</b>	<b>Yes</b>
<b>5100 Converged Messaging System (CMS)</b>	R10SU3 (build SU3: 1000.30.4.2 and later)	<b>CMS-10SU4 (must be a minimum of build 1000.40.037)</b>	<b>Yes</b>
<b>5420 Converged Telephony Server (CTS)</b>	R17.21.01.00 Then patch to R17.21.01.01	<b>R18.22.00.00 Plus Patch: R18.22.00.05</b>	<b>Yes</b>
<b>5440 IMS-PC Client</b>	5440_PCC_r3.1.0.2269 (PCM)	<b>5440_PCC_r4.0 (non-PCM) Load 4.0.0.2315</b>	<b>Yes</b>
5450 Access Gateway Control Function (AGCF)	AGCF-5-1-1 R1S3  Then patch to AGCF511R1S3P1	AGCF-5-1-1 R1S3  Then patch to AGCF511R1S3P1	No
<b>5450 IP Session Control (ISC)/ IP Resource Controller (IRC) (includes iAGCF)</b>	R17.21.01.00 Then patch to R17.21.01.01	<b>R18.22.00.00 Plus Patch: R18.22.00.05</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

Network Element/Application	Load Name in IMS 07.04.01	Load Name in IMS 07.06.00	Load Changed Since IMS 07.04.01?
<b>5900 Media Resource Function (MRF)</b>	MRF6.3.4.1	<b>MRF7.0.2</b>	<b>Yes</b>
<b>7302 Intelligent Services Access Manager (ISAM) -V</b>	ISAM-V-R3.7.00b	<b>ISAM-V-R40 R 40.126</b>  <b>Plus</b> <b>R 4.0.0.a (load 40.132)</b>	<b>Yes</b>
<b>7510 Media Gateway (MGW)</b>	A7510_R31N_07_05_2009_B06 (also called R3.1 SP2)	<b>7510 R3.1SP2</b>  <b>(R31N_07_05_2009_B06)</b>	<b>Yes</b>
7515 Media Gateway (MGW)	7515m2.4B0120	7515m2.4B0120	No
<b>7515 SIP-MGW</b>	N/A	<b>7515R3.1S B0105<sup>1</sup></b>	<b>New</b>
<b>7520 Media Gateway (MGW)</b>	LGP-6-4-0-5-SP-1-2	<b>LGP-7.0.0.1</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>	N440 Hardware: leCCF R26SU8 and hotslide0106  MAS-R26SU8 and patch0814  ===== T2000 Hardware: leCCF 27.3 and hotslide0106  MAS R27SU2-p0216	<b>leCCF 27.5 hotslide00101</b>  <b>MAS -&gt; Itmasr27-p0219</b>  <b>N440 Hardware &amp; T2000 Hardware</b>	<b>Yes</b>
8950 Services Activation Manager (SAM)	Will be updated by DR5	Available at General Availability	No
<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
<b>Gateway Platform</b>  <b>Includes:</b> <b>- 5020 MGC</b> <b>- 5025 Voice Signaling Gateway</b> <b>- 7520 MGW</b>	LGP-6-4-0-5-SP-1-2	<b>LGP-7.0.0.1</b>	<b>Yes</b>
OXE OmniPCX Enterprise	R9.0-h1.301-28-b-us-c80s1	R9.0-h1.301-28-b-us-c80s1	No
<b>Billing and Traffic System (BTS)</b>	BTS-6.4.1.0.15	<b>BTS_7.0.0.0.14</b>	<b>Yes</b>

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

Network Element/Application	Load Name in IMS 07.04.01	Load Name in IMS 07.06.00	Load Changed Since IMS 07.04.01?
VitalQIP	VitalQIP R7.1 DNS R4.0 Build 23 ENUM R1.2 VQIP eSM ISR: USDS-04.01.70.06 (only VQIP200 file)	VitalQIP R7.2 DNS R4.1 Build 11 ENUM R1.3	Yes

## 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 07.06.00.

**Table 1-2 IMS 07.06.00 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 07.06.00 Solution Release Notes</i>	275-100-004R07.06.00
<i>IMS Release 07.06.00 Software Upgrade</i>	275-100-035R07.06.00
<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

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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://services.support.alcatel-lucent.com/services/ims/>).
2. 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 07.06.00.

## New features

The following features are included in this release:

**Table 2-1 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

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## 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 07.06.00 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%	96.2%	Reached
<i>PES Solution</i>	100%	99.2%	Reached
<i>Core</i>	100%	99.2%	Reached
<i>total</i>	100%	98.2%	





# 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*

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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. Since this is the first release for IMS 07.06.00, this section does not apply.

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## Resolved issues

This section will list any resolved issues that were previously reported as *Known Issues* in Chapter 6.

Table 5-1 will list 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**

<b>NE to Lead</b>	<b>Resolve Rls</b>	<b>Fixed in Load</b>	<b>Current Status</b>	<b>Solution(s)</b>	<b>Exception Description</b>
None					

# 6 Known issues



## Overview

### Purpose

This chapter describes NLT-reported issues that remain open in Release 07.06.00.

## Known issues and workarounds

As of October 2009, 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 6-1 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
ISAM-V	Under Investigation	Under Investigation	Under Investigation	pstn	When all possible codecs are populated on the 5900 MRF, PES 3-way Conference calls thru ISAM-V VGW fail.	When SIP message size is greater than 1300 bytes, then the P-CSCF switches to TCP toward ISAM-V. ISAM-V does not support TCP, so the call fails. WORKAROUND: Limit the number of CODECS in the MRF or turn off UDP/TCP switching on the PCSCF.
MGC-8	IMS7.6.1	7.0.0.3 SP5	The fix is targeted for 7.0.0.3 SP5. NLT will verify for IMS7.6 GA.	cims_cvoip_xdsl, core, pstn	ISUP-SIP call (ISUP side hangs first) produces bad eCCF MGCF CDRs.	When the ISUP side hangs up first in an ISUP to SIP call, the MGCF billing records created by leCCF show an 'error 480' cause-code and as a result these billing records will be discarded by the down-stream customer billing system.
5900 MRF	Under Investigation	MRF 7.0.4	Fix is targeted to MRF 7.0.4	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.

NE to Lead	Resolve RIs	Fixed in Load	Current Status	Solution(s)	Exception Description	Impact Statement / Workaround
leCCF	IMS7.6.1	leCCF 27.6 HS_0101	Fix is available in leCCF 27.6 hotslide 0101. NLT will verify for IMS7.6 GA.	cvoip_xdsl	Unsuccessful ACA reported in CCF in NLT IMS7.6 stability run.	If an ACR is received that does not have 'ServedPartyIPAddress AVP' then the leCCF does not acknowledge the ACR and generate the CDR.
ISC	Under Investigation	Under Investigation	On target for ISC 18.28.01.02 20091130	core	Symmetric TCP feature is not supported.	Sites that require Symmetric TCP, should not upgrade to IMS7.6 .0.





# 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 07.04.00 to IMS 07.06.00. 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 07.06.00 is supported from IMS 07.04.00. Network Elements may require multiple transitions to go from IMS 07.04.00 to IMS 07.06.00; refer to the specific NE documentation for further details.

## Security hardening

Security hardening procedures and information for IMS Release 07.06.00 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



---

## A

**AGCF**

Access Gateway Control Function

**ATCA**

Advanced Telecommunications Computing Architecture

**AR**

Action Register

---

## B

**BTS**

Billing and Traffic System

---

## C

**CMS**

Change Management System

**CTS**

Converged Telephony Server

**CVoIP**

Consumer Voice over IP

---

## D

**DNS**

Domain Name System

---

## E

**eSM**

enhanced Service Manager

---

## F

**FS**

Feature Server

---

## G

---

**GUI**  
Graphical User Interface

---

**H**

**HSS**  
Home Subscriber Server

---

**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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**M**

**MGC**  
Media Gateway Controller

**MGW**  
Media Gateway

**MRF**  
Media Resource Function

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**N**

**NE**  
Network Element

**NLT**  
Network Level Test

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**O**

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**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

**SSC**

Subscriber Services Controller

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**U**

**ULIS**

Unified Lawful Intercept Suite

**USDS**

Unified Subscriber Data Server

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**V**

**VoIP**

Voice over Internet Protocol

**VSG**

Voice Signaling Gateway

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**X**

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**XMC**  
Cross-domain Management Center

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