# Alcatel-Lucent

## INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS) SOLUTION 08.00.01

**EXTERNAL RELEASE NOTES**

# Contents

# About this document

## Purpose

The purpose of this document is to provide a general overview of the IP Multimedia Subsystem (IMS) Release 08.00.01, 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 08.00.01.

## Reason for revision

This is the first issue of the IMS Release 08.00.01 Release Notes.

## Intended audience

The intended audience for this document includes all personnel who need information about the IMS 08.00.01 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 08.00.01.

## 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.

**How to order**

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# 1 Release components

## Overview

**Purpose**

This chapter describes the loads that comprise Release 08.00.01 and the documentation deliverables included in this release.

# Software deliverables

Table 1-1 lists the loads that comprise Release 08.00.01.

**Table 1-1 Software release identification**

| Network Element/Application | Load Name in IMS 08.00.00 | Load Name in IMS 08.00.01 | Load Changed Since IMS 08.00.00? |
|---|---|---|---|
| **1300 Cross Management Center (XMC)** | R6.2.2.2 | **R6.2.2.5 Plus 1300 XMC R6.2.2.5 IAP 01** | **Yes** |
| 1357 ULIS (LIG) | R12.3.5 | R12.3.5 | No |
| 5020 MGC-8 | LGP-6-4-0-2 | LGP-6-4-0-2 | No |
| 5100 CMS (AnyPath) | CMS-1000.1.5.3 | CMS-1000.1.5.3 | No |
| **5420 CTS** | R17.15.00.00<br><br>Immediately apply Patch R17.15.00.03 | **R17.15.00.04** | **Yes** |
| 5420 Personal Communication Manager (PCM) | PCM_R1_0_1_588<br><br>Platform:<br> - 5400 R1.2<br>Patch:<br> - 5400 R1.2.2<br> - 5400 R1.2.2.1<br><br>TP: 3.1.0.6 | PCM_R1_0_1_588<br><br>Platform:<br> - 5400 R1.2<br>Patch:<br> - 5400 R1.2.2<br> - 5400 R1.2.2.1<br><br>TP: 3.1.0.6 | No |
| 5440 IMS-PC Client | 5440_PCC_r3.1.0.2209 (PCM)<br>TP: 3.1.0.6 | 5440_PCC_r3.1.0.2209 (PCM)<br>TP: 3.1.0.6 | No |
| **5450 IP Session Control (ISC)/ IP Resource Controller (IRC)** | R17.15.00.00<br><br>Immediately apply Patch R17.15.00.03 | **R17.15.00.04** | **Yes** |
| 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)** | R6.3.1 plus patches 6245, 6299, 6430, 6441, 7881 | **MRF6.3.3** | **Yes** |
| 7510 Media Gateway (MGW) | 7510 R3.0 B11b | 7510 R3.0 B11b | No |
| 7520 Media Gateway (MGW) | LGP-6-4-0-2 | LGP-6-4-0-2 | No |

| Network Element/Application | Load Name in IMS 08.00.00 | Load Name in IMS 08.00.01 | Load Changed Since IMS 08.00.00? |
|---|---|---|---|
| 7750 Service Router | R5.0R11 | R5.0R11 | No |
| 8615 Instant enhanced Charging Collection Function (IeCCF) | N440 Hardware: IeCCF R26SU8 and hotslide0101<br><br>MAS-R26SU8 and patch0809<br><br>============<br>T2000 Hardware: IeCCF 27.3 and hotslide0101<br><br>MAS R27SU2-p0209 | N440 Hardware: IeCCF R26SU8 and hotslide0101<br><br>MAS-R26SU8 and patch0809<br><br>============<br>T2000 Hardware[1]: IeCCF 27.3 and hotslide0101<br><br>MAS R27SU2-p0209 | No |
| **8650 Subscriber Data Manager (SDM) (HSS on ATCA)** | SDM2.0: sdm8650-v2-r4.002.0340-10<br><br>Note: IMS NLT tested the Compact-Small configuration | **SDM2.0.1** | **Yes** |
| 8950 Services Activation Manager (SAM) | N/A | SAM 16.0.1 | New |
| Acme Packet Session Director (4250) | C5.1.1p17 | C5.1.1p17 | No |
| **Fortinet Fortigate Firewall** | FGT_5005FA2-v300-build153-FORTINET<br><br>8.0 stress testing of ALU Border Solution began on 1.5.3MR5 load teluri - fix came in 8.0.8.5 MR4 load which we finalized the verification. 8.0.8.5MR4 is a private fix load from Fortinet. | **FGT_5005FA2-v300-build8094-mr5** | **Yes** |
| **Lucent Control Platform (LCP) (ATCA platform only)**<br><br>**Includes:**<br>**- 5420 CTS**<br>**- 5450 ISC / IRC** | R17.15.00.00<br><br>Immediately apply Patch R17.15.00.03 | **R17.15.00.04** | **Yes** |
| Lucent Gateway Platform (LGP)<br><br>Includes:<br>- 5020 MGC<br>- 7520 MGW | LGP-6-4-0-2 | LGP-6-4-0-2 | No |
| OMC-P | OMC-P-13.0.1 | OMC-P-13.0.1 | No |
| Plexus BTS | BTS_6.4.0.0.47 | BTS_6.4.0.0.47 | No |

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[1] The IeCCF 27.3 and hotslide0101 with MAS R27SU2-p0209 using T2000 hardware was tested by the IMS 6.1.14 maintenance NLT team.

| Network Element/Application | Load Name in IMS 08.00.00 | Load Name in IMS 08.00.01 | Load Changed Since IMS 08.00.00? |
|---|---|---|---|
| VitalQIP | VitalQIP R7.1<br><br>DNS R4.0 Build 23<br><br>ENUM R1.2<br><br>VQIP eSM ISR: USDS-04.01.70.06 (only VQIP200 file) | VitalQIP R7.1<br><br>DNS R4.0 Build 23<br><br>ENUM R1.2<br><br>VQIP eSM ISR: USDS-04.01.70.06 (only VQIP200 file) | No |
| Westell TriLink™ IMS Gateway 6358 | Westell_RBGW-02.00.03.02, sw2.0055.17 | Westell_RBGW-02.00.03.02, sw2.0055.17 | No |

# How to obtain software

Please contact your Alcatel-Lucent representative to obtain software.

# Document deliverables

For IMS Release 08.00.01, this document is the only solution document that has been updated. For the latest solution documents, please use the Release 08.00.00 versions.

See the next section, "To obtain documentation", for detailed information on how to obtain IMS Solution documentation

**NOTE:** The Solution Software Upgrade document is not available for this release since IMS 08.00.00 does not support solution upgrade paths from any previous IMS release.

# 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
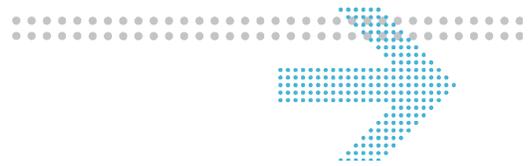
## Overview

### Purpose

This chapter lists the features included in Release 08.00.01.

## New features

The following features are included in this release:

**Table 2-1 Features released in 08.00.00**

| Feature Number | Feature Title |
|---|---|
| 33333.132 | IMS 8.0 VoIP with aTCA platform |

**Table 2-2 Features released in 08.00.01**

| Feature Number | Feature Title |
|---|---|
| 33333.24 | ALU IMS business trunking solution for SIP-PBX using wildcard PUID |
| 33333.103 | IMS 8.0 End to End Provisioning; 2nd Generation Workflow 8950 SAM End to End Regression Testing |
| 33333.148 | 8950 SAM support for Wildcard PUID/business trunking for end to end workflow provisioning (Enterprise Workflow) |

# 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 08.00.01 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) |
|---|---|---|---|
| *cVoIP Solution* | 100% | 99% | Reached |
| *total* | 100% | 99% | |

# 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 08.00.00 Network Elements:

- *IP Multimedia Subsystem Release 08.00.00 Solution Interface Changes Specifications*, 275-100-050R08.00.00

### 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.

# 5    Resolved issues

## Overview

### Purpose

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

# Resolved issues

This section lists the resolved issues that were previously reported as *Known Issues* in Chapter 6.

There are no customer-reported ARs in this release. NLT-reported severity 1 and severity 2 issues that were reported open in IMS Release 08.00.00 have been closed in IMS Release 08.00.01.

# 6    Known issues

## Overview

**Purpose**

This chapter describes NLT-reported issues that remain open in Release 08.00.01.

# Known issues and workarounds

Table 6-1 lists the severity 2 issues that were not resolved in the loads that are part of this release. There are no customer-reported ARs in this release.

**Table 6-1 NLT-reported severity 2 open issues from IMS 08.00.00**

| NE to Lead | Resolve Rls | Fixed in Load | Current Status | Solution(s) | Exception Description | Impact Statement / Workaround |
|---|---|---|---|---|---|---|
| ISC | IMS8.1 | R17.18.00 | on track for 8.1 | cVoIP | If a DNS host goes down in the ISC, craft is not notified. | The first host can go down without notification. The fix provides a major alarm to notify the craft. |

**Table 6-2 NLT-reported severity 2 open issues from IMS 08.00.01**

| NE to Lead | Resolve Rls | Fixed in Load | Current Status | Solution(s) | Exception Description | Impact Statement / Workaround |
|---|---|---|---|---|---|---|
| OXE | IMS8.1 | TBD | under investigation | core | OXE fails to recognize incoming ext gateway for PSTN to PBX with no ENUM | Incoming calls from PSTN to PBX subscriber without ENUM entries will fail. |
| 8650 SDM | IMS8.1 | TBD | under investigation | core | Alarm not received until we did a stop and restart supervision with the SDM FE | Workaround: stop and restart 'supervision' of SDM FE and the alarm will display on the XMC. |
| Fortinet FW | IMS8.1 | TBD | under investigation | cvoip_xdsl | Fortigate report Call Forward call as failure | Calls are not impacted, calls are incorrectly reported as failed. |
| Fortinet FW | IMS8.1 | TBD | under investigation | cvoip_xdsl | Fortigate report call with Simultaneous Ringing as failure | Calls are not impacted, calls are incorrectly reported as failed. |

# 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: FS GUI (5420 CTS, 5450 ISC), OMC-P (Plexview), 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 |
| --- | --- |
| 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

Specific hardware requirements are addressed by the network element level release notes and documentation.  Note that IMS 08.00.00 introduced new ATCA platforms for 5420 CTS, 5450 ISC/IRC, and 8650 SDM.

# Compatibility restrictions

Solution level upgrade to IMS 08.00.01 is not supported.  IMS 08.00.00 introduced new ATCA platforms for 5420 CTS, 5450 ISC/IRC, and 8650 SDM.  This release is for new installations only.  IMS 08.00.01 does not support solution upgrade paths from any previous IMS release.

# 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

Solution level upgrade to IMS 08.00.01 is not supported.  IMS 08.00.00 introduced new ATCA platforms for 5420 CTS, 5450 ISC/IRC, and 8650 SDM.  This release is for new installations only. IMS Release 08.00.01 does not support upgrade paths from any previous IMS release.

## Security hardening

Security hardening procedures and information for IMS Release 08.00.00 NEs are on OLCS. Go to:  https://services.support.lucent.com/services/, click on IMS Solutions, then click on Security Hardening IMS Release 08.00.00. From this page, you can click on each NE for security hardening details.

# Acronym List

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**A**

       **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

---

**F**

       **FS**
       Feature Server

---

**G**

       **GUI**
       Graphical User Interface

---

**H**

       **HSS**
       Home Subscriber Server

---

**I**

**IeCCF**
Instant enhanced Charging Collection Function

**IMS**
IP Multimedia System

**IRC**
IP Resource Control

**ISC**
IP Session Control

## L

**LCP**
Lucent Control Platform

**LGP**
Lawful Gateway Platform

## M

**MGC**
Media Gateway Controller

**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-P**
Operations and Maintenance Center – Plexus

## P

**PCM**
Personal Communication Manager

**PSTN**
Public Switched Telephony Network

## S

**SAM**
Services Activation Manager

**SDM**
Subscriber Data Manager

**SSC**
Subscriber Services Controller

## U

**ULIS**
Unified Lawful Intercept Suite

## V

**VoIP**
Voice over Internet Protocol

## X

**XMC**
Cross-domain Management Center