Alcatel-Lucent

INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM (IMS) SOLUTION 06.01.14C

EXTERNAL RELEASE NOTES

Contents

Acronym List   1

About this document

Purpose

The purpose of this document is to provide a general overview of the IP Multimedia Subsystem (IMS) Release 06.01.14c, 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 06.01.14c.

Reason for reissue

This is the first issue of the IMS Release 06.01.14c Release Notes.

Intended audience

The intended audience for this document includes all personnel who need information about the IMS 06.01.14c 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

IMS Release 06.01.14c is a maintenance release update for IMS Release 06.01. NLT solution testing for this release was performed on the IMS CVoIP application.

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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1   Release components

Overview

Purpose

This chapter describes the loads that comprise Release 06.01.14c and the documentation deliverables included in this release.

Software deliverables

Table 1-1 lists the Network Elements and loads that comprise Release 06.01.14c. New or changed load names are shown in bold-face type.

Table 1-1 Software release identification

Network Element/Application	Load Name in IMS 06.01.14a and b Load	Load Name in IMS 06.01.14c Load	Load Changed Since IMS 06.01.14a and b?
2Wire RBGWs[1]	5.29.15-eval3	5.29.15-eval3	No
1300 Cross Management Center (XMC)	R6.2.0.3	R6.2.0.3	No
1440 USDS (Includes MAS/AHE)	USDS-04.03.71.18 MAS-R26SU6-p0617 SPA HCF710 SPAHDF710	USDS-04.03.71.18 MAS-R26SU6-p0617 SPA HCF710 SPAHDF710	No
5020 MGC-8 (was Lucent Network Controller (LNC), Lucent Signaling Gateway)	6.3.0.4.SP7	6-3-0.4.SP7	No
5020 MGC-12	R2.2.7.13	R2.2.7.13	No
5100 CMS (AnyPath)	AnyPath-R8.2-SU4	AnyPath-R8.2-SU4	No
5350 IMS Application Server (IAS) (Presence, XDMS)	R4.0 SP3.2 + Patches	R4.0 SP3.2 + Patches	No
5440 IMS-PC Client	IMS-PC-Client-R1.3.4-Mtce-v1713	IMS-PC-Client-R1.3.4-Mtce-v1713	No
5450 AGCF	AGCF5_0_0R1S3	AGCF5_0_0R1S3	No
5420 Voice Call Continuity Server (VCC)	SCR 3.1 0R1S1A16 (1.1.1.28)	SCR 3.1 0R1S1A16 (1.1.1.28)	No
5430 Session Resource Broker (SRB)	3.1.1R1P5	3.1.1R1P5	No
5750 Subscriber Services Controller (SSC)	SSCR3.0R1	SSCR3.0R1	No

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[1] Please contact 2Wire for software and documentation. Alcatel-Lucent does not warranty this product.

Network Element/Application	Load Name in IMS 06.01.14a and b Load	Load Name in IMS 06.01.14c Load	Load Changed Since IMS 06.01.14a and b?
5900 MRF	6.3.1 Required Patches:5990, 6245, 6299, 6360, 6430, 6968, 6976, 7034, 7041, 7591, 7622, 7637, 7881 Previous patches made obsolete by above patches: 6441, 7270 Annlab 4.4.13 MCDP Rel 1.2_Patch12	6.3.1 Required Patches:5990, 6245, 6299, 6360, 6430, 6968, 6976, 7034, 7041, 7591, 7622, 7637, 7881 Previous patches made obsolete by above patches: 6441, 7270 Annlab 4.4.13 MCDP Rel 1.2_Patch12	No
7302 ISAM-V	R3.4.01	R3.4.01	No
7510 MGW	R2.6	R2.6	No
7520 MGW (was Lucent Network Gateway)	6.3.0.4.SP7	6.3.0.4.SP7	No
7720 Access Border Node (ABN)	R33_04_001-B Reefpoint IQ : IMS 1.2.2.2-QA 29	R33_04_001-B Reefpoint IQ : IMS 1.2.2.2-QA 29	No
8640 Corporate Mobility Manager (CMM)	CMMGEN50-02/05	CMMGEN50-02/05	No
8615 IeCCF (was Surepay CCF)	CCF-R26SU5-hotslide0103 MAS-R26SU7 MAS-R26SU7-p0701	**N440 –** **eCCF R26SU5-hotslide0103 IeCCF R26SU5-esm-service-hotslide0101 spa ECCF265** **MAS R26SU7-p0701 (ltmasr26-p0701)** **T2000 –** **IeCCF R27SU3 (Base) IeCCF R27SU3-hotslide0101 spa ECCF268** **MAS R27SU2-p0209 (ltmasr27-p0209)**	**Yes**
8670 GUP (was 1390 GUP)	UPP4.3.1.R1S1P1 ENSUPP4.3.1.R1S1P1	UPP4.3.1.R1S1P1 ENSUPP4.3.1.R1S1P1	No
8680 Video voice Mail Box	3.0.04 patch012	3.0.04 patch012	No
8950 Vital AAA[2]	VitalAAA-5.2.2	VitalAAA-5.2.2	No
Acme Packet Net-Net EMS	EMS 6.0.0 GA	EMS 6.0.0 GA	No
Acme Packet Session Director (4250)	C5.0.0p24	C5.0.0p24	No
Acme Packet Session Director (9200)	D5.1.0p3	D5.1.0p3	No

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[2] 8950 Vital AAA was part of the WiMAX BU lab environment but not specifically tested by IMS 06.01.14 NLT.

Network Element/Application	Load Name in IMS 06.01.14a and b Load	Load Name in IMS 06.01.14c Load	Load Changed Since IMS 06.01.14a and b?
Audiocodes – IPM2K	Audio-Codes-IPM1610_SIP_F5.00A.032.003 Audio-Codes for Compact IMS – 5.20A.015.004	Audio-Codes-IPM1610_SIP_F5.00A.032.003 Audio-Codes for Compact IMS – 5.20A.015.004	No
Audiocodes – IPM5K[3]	Audio-Codes-AC_IPM5K_R5.0.50-1.1a	Audio-Codes-AC_IPM5K_R5.0.50-1.1a	No
Dorado[4]	5.3.8.1	5.3.8.1	No
eMRS[5]	eMRS-R25SU9-b0911 (ltcsnr25-b0911) IPMS-255 IPMS-253to255-SPAFU CALEA-251 CALEA-250to251-SPAFU	eMRS-R25SU9-b0911 (ltcsnr25-b0911) IPMS-255 IPMS-253to255-SPAFU CALEA-251 CALEA-250to251-SPAFU	No
eSM	PA-RISC-eSM eSM-01.26.06 P9 Itanium - eSM[6]: eSM-01.26.06 P9	PA-RISC-eSM eSM-01.26.06 P9 Itanium - eSM[7]: eSM-01.26.06 P9	No
Intelligent Services Gateway (ISG)	ISG-08.00.00.05 svc-ISGD-800 svc-FW-800 svc-FWD-800 svc-CDBMON-800 svc-CCSIP-800 svc-ISG-800 MAS-R26SU4-p0423 (ltmasnr26-0423)	ISG-08.00.00.05 svc-ISGD-800 svc-FW-800 svc-FWD-800 svc-CDBMON-800 svc-CCSIP-800 svc-ISG-800 MAS-R26SU4-p0423 (ltmasnr26-0423)	No
Intellivic Client	Intellivic 1.2.0.3000	Intellivic 1.2.0.3000	No
Lucent Control Platform (LCP) Includes: - 5420 CTS (was Lucent Feature Server 5000) - Lucent Feature Server 2500 - 5450 ISC (was Lucent Session Manager, LSM)	R14.28.00.00 Then apply patch R14.28.00.02	R14.28.00.00 Then apply patch R14.28.00.02	No
Lucent Communication Manager (LCM)	6.3.4.N_139 Red Hat Linux Version 3 update 8	6.3.4.N_139 Red Hat Linux Version 3 update 8	No
Lucent Network Gateway for solutions with a Lucent Control Platform-based MGCF	Plexus_WAG-6131.C133.0.0	Plexus_WAG-6131.C133.0.0	No

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[3] Audiocodes – IPM5K was integration tested with CTS and ISC, but it was not tested by NLT in IMS 06.01.14.

[4] Not part of the generic reference architecture.

[5] Not part of the generic reference architecture. It will only be used in certain existing customer configurations.

[6] Itanium version of eSM is not tested by NLT.

[7] Itanium version of eSM is not tested by NLT.

Network Element/Application	Load Name in IMS 06.01.14a and b Load	Load Name in IMS 06.01.14c Load	Load Changed Since IMS 06.01.14a and b?
Lucent Security Management Software (LSMS)	9.1.308	9.1.308	No
Lucent VPN Firewall (LVF)	9.1.308	9.1.308	No
OMC-CN	R3.0 SU5	R3.0 SU5	No
OMC-H	R07.05.01.06.16	R07.05.01.06.16	No
OMC-P	12.0.2.04	12.0.2.04	No
Plexus BTS	6.3.1.0.9 TCA 2.0.0.116	6.3.1.0.9 TCA 2.0.0.116	No
PCTel[8]	PCTel-V2.00.23	PCTel-V2.00.23	No
Riverstone (Lucent Ethernet Router)	For 15100, 200 series R1.5.1.2-N -For 15800 series: R1.5.0.7-SA01 or R1.5.0.8-SA01 -For 3100 series: V9.4.1.6 (for support of trials only)	For 15100, 200 series R1.5.1.2-N -For 15800 series: R1.5.0.7-SA01 or R1.5.0.8-SA01 -For 3100 series: V9.4.1.6 (for support of trials only)	No
SS8 WDDF (Lawful Intercept Gateway)	3.7.1 SU03 3.7.1 SU04	3.7.1 SU03 3.7.1 SU04	No
VCC Light CAMEL Gateway (LCGW)	OSP platform: R2.4.2 + LCGW 1.0	OSP platform: R2.4.2 + LCGW 1.0	No
VitalQIP	VitalQIP R7.1 DNS R4.0 Build 23 ENUM R1.2 VQIP eSM ISR: USDS-04.01.70.06 (only VQIP200 file) Solaris 9 kernel 122300-26 (05/08)	VitalQIP R7.1 DNS R4.0 Build 23 ENUM R1.2 VQIP eSM ISR: USDS-04.01.70.06 (only VQIP200 file) Solaris 9 kernel 122300-26 (05/08)	No
VitalSuite® Services Activation Manager (SAM)	R15.0	R15.0	No
Westell TriLink™ Gateway Model 427V A99-427V30a-00	Westell_RBGW-01.00.12.01, sw2.0053.25.01	Westell_RBGW-01.00.12.01, sw2.0053.25.01	No
Windows Mobile Client	WM-Client-PPC-R4.1-V8.0.4.5	WM-Client-PPC-R4.1-V8.0.4.5	No

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[8] Trial only

Network Element/Application	Load Name in IMS 06.01.14a and b Load	Load Name in IMS 06.01.14c Load	Load Changed Since IMS 06.01.14a and b?
Zyxel	ZyXEL CPE Rev2 Mother Board MAX210M1_360AKG0b16_20080417 RUNCOM 206.70.24.26 for 3.5ghz or ZyXEL CPE Rev2 Mother Board MAX200M1_360AKG0b16_20080417 RUNCOM 206.70.24.26 for 2.5ghz	ZyXEL CPE Rev2 Mother Board MAX210M1_360AKG0b16_20080417 RUNCOM 206.70.24.26 for 3.5ghz or ZyXEL CPE Rev2 Mother Board MAX200M1_360AKG0b16_20080417 RUNCOM 206.70.24.26 for 2.5ghz	No
Zyxel PCMCIA card (used in PC client)	ZyXEL PCMCIA MAX100_1.0.4.4	ZyXEL PCMCIA MAX100_1.0.4.4	No

NE to Solution mapping

Not applicable for this release. Only the IMS CVoIP application was tested by NLT in IMS Release 06.01.14c.

How to obtain software

Please contact your Alcatel-Lucent representative to obtain software.

Document deliverables

For the latest solution documents, please use the Release 06.01.09 versions.

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 06.01.14c.

New features

The following feature is included in this release.

Table 2-1 New feature

FID Number	FID Title
14575.1	5450 ISC certifications with N440 and T2000 Alcatel-Lucent CCF

Functionality

Support for the following functionality was verified in IMS 06.01.14c:

- IeCCF on the T2000 platform

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 06.01.14c solution test program.

Table 3-1 NLT Test Results

Solution	Progress Rate	Quality (Pass Rate)	Exit Criteria Status (Reached/Not Reached)
IeCCF T2000 Platform	100%	98.6%	Reached
total	100%	98.6%	Reached

See Table 6-1 for exceptions.

Performance test results

The following table shows the results from IMS 06.01.14c load testing of the T2000 HW for the IeCCF. The IMS 06.01.14c load testing was focused on measuring the IeCCF application on the T2000 HW, assessing the CPU rate at a specific engineered call load and transaction rate.

Table 3-2 IMS load performance of T2000 HW test results

Metric	Result
Load Run Duration	48 HR
Subscriber BHCA	224,000 BHCA
Calls per Second	62 cps
Transactions per Second	580 tps
Maximum CPU% running in User Mode	49 %

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

There are no Northbound Interface changes in this release.

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

This section lists the NLT-reported problems and software-related customer-reported ARS escalated to NLT, that are resolved in IMS Release 06.01.14c.

Table 5-1 NLT-reported problems resolved in IMS release 06.01.14c

NE	Abstract	Resolution
	No Issues to Report for this Release	

Table 5-2 Customer-reported ARs resolved in IMS release 06.01.14c

AR	NE	Sev	Short Description
1775117	CCF MAS	2	CCF rolling in errors - seems to have lost its sanity
1783565	CCF MAS	2	Warning and error messages for (BackupDVD only) for CCFs on 6.1.9
1813174	CCF MAS	2	Password expiration locks out user
1813189	CCF MAS	2	Reuse of password not a settable quantity
1814246	CCF MAS	3	Opening login does not display failed attempts.
1816641	CCF MAS	2	Fails requirement for password construction
1813207	CCF MAS	2	Password not required to be reset after add/change by administrator

6   Known issues
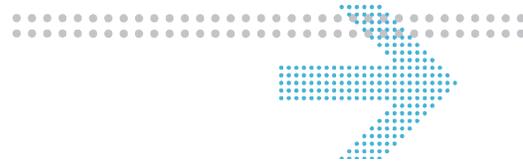
Overview

Purpose

This chapter describes NLT- and customer-reported issues that remain open in IMS Release 06.01.14c.

Known issues and workarounds

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

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

NE	Abstract	Impact Statement / Workaround
5900	Geo-Red support for 5900 only work if both IMS sites have same DNS domain	Issue raised to Architecture and Systems Engineering; No impact to any existing IMS customer.
5900	MRF5900 Annlab and MCDP GUI requirement different JRE versions	Future Annlab release will support Java 1.5. Workaround: use Exceed and Xwindow access method of Annlab, or separate PCs for Annlab and MCDP GUIs.
LCM	IMS_NLT-Prov:LCM: No Service nor GUI connections on site failure & quarantine	Issue fails LCM support for Geo-Redundant and FS5K quarantine Work around: The JBOSS process on the effected LCM servers should be stopped/restarted. Please reference Appendix A for additional procedures.
LCM & OMC-P	IMS_NLT:LCM response to OMC-P quarantine update not sent within OMC-P timeout	Work around: Perform a sync between the OMC-P and the effected LCM system after LCM system has processed the FS5K quarantine.
OMC-P & LCP	IMS_NLT_Prov: OMC-P ed-ngfs (modify) takes > 70 sec during E2E test	Issue impacts prov throughput for Modify transactions. Fix addressed by OMC-P Rel 13.0.2 queue restructuring
OMC-P & LCP	IMS_NLT_Prov: OMC-P 3.5 sec gap in SouthBound activity after final Delete response	Issue impacts E2E provisioning throughput rates for Delete. Fix addressed by OMC-P Rel 13.0.2 queue restructuring
IeCCF	/cdr disk partition needs to be a minimum of 108GB required to support 3 days of CDR storage	This is not a Software defect. Review current customer partition specifications for proper sizing and update as needed. Documentation needs to be review and updated as needed.

Table 6-2 Customer-reported ARs remaining open in IMS release 06.01.14

AR	NE	Sev	Short Description	Target NE Load
2025892	LSM	2	LSM still has memory leak following upgrade	LCP 14.28.00.04
1902215	OMC-P	2	Cannot synchronize LCM in OMC-P after 11_00_01_02 upgrade	13.0.2.x
1940367	OMC-P	2	OMC-P GR replicate_data full command failed at Step 10	13.0.2.x
1940454	OMC-P	2	When GR Fails during Step 10, files continue to be copied from Primary to MA	13.0.2.x
1945993	OMC-P	2	OMC-P GUI Passwords displayed as plain text	13.0.2.x
1972858	OMC-P	2	ALU Specified LCM update transaction for FS5K Migration Fails	13.0.2.x
2031512	OMC-P	2	Static Sync Failed in OMC-P Part of Data Sync Test	13.0.2.x
1964479	LCM	2	OMC-P to LCM sync design issue	6.3.5.x
2025574	LSM	2	CALEA inbound and outbound continues to ring after CANCEL	14.28.00.04
2009850	FS5K	2	FS5K R14.28.00.02 Static Sync Failed	14.28.00.04
1944880	FS5K	2	DataSync/Static Sync fail during UnQuarantined	14.28.00.04
1809521	eMRS	2	eMRS idle session timeout does not work if session left idle in subshl	R25SU9-0915
2024023	Acme EMS	2	Acme EMS Rediscovery Failing to All Acme SD's	6.0.0p3

AR	NE	Sev	Short Description	Target NE Load
2034519	LGP	2	LSG/LNC link report s M3UA Down	6.3.0.4 SP13

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

Acme Packet Net-Net EMS	Java 1.5.0_14
OMC-H client	Java 1.5.0_15
OMC-CN client	Java 1.4.2_17
LCM Admin GUI	Java 1.5.0_15
LCP MI GUI	Java 1.5.0_15
XMC GUI	Java 1.5.0_7 and Java 1.4.2_13
5900 MRF MCDP Alarm GUI	Java 1.5.0_15

The 5900 MRF Annlab GUI version 4.4.13 must be installed on a separate PC with Java Web Start version 1.3 and Java 1.4.2_18.

Table 7-2 shows IMS GUIs with no Java installation dependencies.

Table 7-2 IMS GUIs with no Java installation dependencies

OMC-P client	embedded in OMC-P SW load (Java 1.5.0_07)
eSM	uses existing PC Java plug-ins (Java 1.4.x or 1.5.x)
LSMS	uses existing PC Java plug-ins (Java 1.4.x or 1.5.x)
VitalQIP	not applicable

SUN Operating System Patch Level for Non-Integrated Components

Table 7-3 shows the SUN OS patch level for non-integrated components.

Table 7-3 SUN OS system patch level for non-integrated components

Network Element	OS Level
LSMS	Solaris 9 Kernel 122300-26 (0508)
Dorado	Solaris 9 Kernel 122300-26 (0508)
Acme EMS	Solaris 9 Kernel 122300-26 (0508)
VitalQIP Enterprise	Solaris 9 Kernel 122300-26 (0508)
VitalQIP DNS	Solaris 9 Kernel 122300-26 (0508)
OMC-P	Solaris 9 Kernel 122300-26 (0508)
BTS	Solaris 9 Kernel 122300-26 (0508)

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 06.01.14a and IMS 06.01.14b to IMS 06.01.14c. See the *IMS Solution Release 06.01 Solution Software Upgrade* document, 275-100-035R06.1, 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:

- *IMS Solution Release 06.01 Solution Software Upgrade* 275-100-035R06.01

Security hardening

There is no specific information for this release.

A   LCM Open Issue

Overview

Purpose

This appendix contains detailed information and the work-around for the Severity 1 IMR 879879 exception.

Description of the issue

During testing of geographic site failures (where Site 1 is isolated from the remainder of the network), in some instances the remaining LCM site/system did not provide service and did not accept connections from either the OMC-P or Administration GUI clients.

Root cause

Typically D-node pairs operate as master-slave pairs.   When one site goes down, the node which remains connected should go into "ONLY" state, and the site that gets isolated should go into "NULL" state.

In the test which failed, the D-nodes behaved correctly, but the A-nodes' view was incorrect. The A-nodes' view of the observed state of the remaining available D-node that was not in isolation was "NULL" when it was supposed to be in an "ONLY" state.

As the only remaining D-node was viewed as being in a "NULL" state by the LCM A-node, it was not recognized as available for database access. The LCM A-node has a flawed mechanism for consistently detecting the D-node outage on isolation.

Detection of the outage and reconfiguration action was hampered by a condition where other application processing requests for database service interfered with the ability to update the A-node view of the D-node state to reflect the correct post-isolation D-node state of "ONLY". The action of updating the A-nodes' view of the D-nodes' state attempted to establish a D-node connection for database service and waited in line behind all the other D-node connection requests that were using the incorrect D-node state.

This problem can occur randomly on any of the remaining LCM A-nodes at the site that is not in isolation. Timing of events determines whether it occurs or not for each A-node.

Impact of problem to network

This problem only impacts the LCM. No other network elements are affected. There is no impact to customers' ability to make or receive calls or billing for those calls. Provisioning and customer portal services relying on LCM functionality will be affected while in this state.

This issue is latent in the state design of the LCM software. The changes in the LCM 6.3.4.139 release increase the probability that this problem will occur. The change is the read-local performance related enhancement introduced in this release. This problem occurs only for geo-redundant LCM configurations. In test trials, the condition was observed to occur 50% of the time when an LCM site was isolated.

Recovery or Workaround Method

After an LCM site isolation, the A-node view of D-node state should be monitored for 15 minutes. The problem can affect any number of A-nodes. Each remaining site A-nodes' views of D-node segments' states should be checked to determine if action is needed. This is accomplished through running "telnet localhost 7000" on each remaining site A-node, then turning on the "DBrouter" logger, and then observing content of the appl.log.

Example: appl.log content

An example of appl.log content is shown below with items of interest in **bold red**. The status needs to be checked for the A-node view of each D-node segment.

Correct operational state example:
2008-11-06 07:47:00,050 DEBUG (Timer-12)[com.lucent.lps.dataaccessors.ejb.DBRouter] returning read connection DBSegment:
   SegmentID: 1
   DBNode:
    NodeName: **provbr2-lcm-d1**
    intHostName: provbr2-lcm-d1-int.imsnpi.ims.net
    status: **Only**
    dbNodeVersion: r6.3.4.139
    appSrvrVersion: r6.3.4.139
    consistentVers: true
    isLocal: false
    arpableEntityStatus: Connected
   DBNode:
    NodeName: **provbr1-lcm-d1**
    intHostName: provbr1-lcm-d1-int.imsnpi2.ims.net
    status: **Null**
    dbNodeVersion: r6.3.4.139
    appSrvrVersion: r6.3.4.139
    consistentVers: true
    isLocal: false
    arpableEntityStatus: Unknown

Abnormal operational state example:
2008-11-05 01:55:43,485 DEBUG (HAProxy0)[com.lucent.lps.dataaccessors.ejb.DBRouter] returning read connection DBSegment:
   SegmentID: 1
   DBNode:
    NodeName: **provbr2-lcm-d1**
    intHostName: provbr2-lcm-d1-int.imsnpi.ims.net
    status: **Null**
    dbNodeVersion: r6.3.4.139
    appSrvrVersion: r6.3.4.139
    consistentVers: true
    isLocal: false
    arpableEntityStatus: Unknown
   DBNode:
    NodeName: **provbr1-lcm-d1**
    intHostName: provbr1-lcm-d1-int.imsnpi2.ims.net
    status: **Master**
    dbNodeVersion: r6.3.4.139
    appSrvrVersion: r6.3.4.139
    consistentVers: true

isLocal: false
arpableEntityStatus: Connected

After 15 minutes, if any of the D-node segment status appears as the abnormal operational state example above, then action is required. Restart the JBoss process for all A-nodes with the abnormal operational state view. Restart results in a loss of functionality for that A-node for a few minutes at most.

More detailed procedures can be provided in a recovery MOP if requested.

Schedule for Resolution

This issue will be resolved in the LCM 6.3.5.x release, which will be included in IMS 6.1.15, targeted to be available February 9, 2009.

Acronym List

A

AAA
Authentication, Authorization, Accounting

ABN
Access Border Node

AGCF
Access Gateway Control Function

AGW
Access Gateway

AHE
Application Hosting Environment

AR
Action Register

B

BTS
Billing and Traffic System

C

CALEA
Communications Assistance for Law Enforcement Agency

CCF
Charging Collection Function

CDMA
Code Division Multiple Access

CDR
Call Detail Record

CGF
Charging Gateway Function

CMM
Corporate Mobility Manager

CMS
Change Management System

CPE
Call Processing Equipment

CSCF
Call Session Control Function

CTS
Converged Telephony Server

CVoIP
Consumer Voice over IP

D

DNS
Domain Name System

E

E2E
End to End

eCCF
enhanced Charging Collection Function

EMS
Element Management System

ENUM
Telephone Numbering Mapping

eSM
Enhanced Services Manager

F

FS2500
Feature Server 2500

FS5000
Feature Server 5000 (FS5K)

G

GUI
Graphical User Interface

GUP
Generic User Profile

GPRS
General Packet Radio Service

I

IAS
IMS Application Server

ICC
Instant Convenient Charging

IeCCF
Instant enhanced Charging Collection Function

IMS
IP Multimedia System

ISC
IP Session Control

ISAM-V
Intelligent Services Access Manager - V

ISDN
Integrated Service Digital Network

ISG
Intelligent Services Gateway

L

LCM
Lucent Communication Manager

LCP
Lucent Control Platform

LIG
Lawful Intercept Gateway

LNC
Lucent Network Controller

LVF
Lucent Virtual private network Firewall

LSM
Lucent Session Manager

LSMS
Lucent Security Management Software

M

MAS
MiLife Application Server

MGC
Media Gateway Controller

MGCF
Media Gateway Control Function

MGW
Media Gateway

MRF
Media Resource Function

N

NE
Network Element

NLT
Network Level Test

O

OAM
Operations, Administration, Maintenance

OLCS
OnLine Customer Support

OMC-CN
Operations and Maintenance Center – Core Network

OMC-H
Operations and Maintenance Center – Home Location Register and Home Subscriber Service

OMC-P
Operations and Maintenance Center – Plexus

P

PCM
Personal Communication Manager

PNA
Private Network Access

PS
Presence Server

PSTN
Public Switched Telephony Network

PSI
Public Service Identity

S

SAM
Services Activation Manager

SIP
Session Internet Protocol

SMS
Security Management Server

SOAP
Simple Object Access Protocol

SRB
Session Resource Broker

SSC
Subscriber Services Controller

T

TPH
Transactions Per Hour

U

> **ULIS**
> Unified Lawful Interception Suite
>
> **UMTS**
> Universal Mobile Telecommunications System
>
> **USDS**
> Unified Subscriber Data System

V

> **VCC**
> Voice Call Continuity
>
> **VitalAAA**
> Vital Authentication Authorization Accounting
>
> **VoIP**
> Voice over Internet Protocol
>
> **VPN**
> Virtual Private Network

W

> **WDDF**
> Wireless Data Delivery Function

X

> **XMC**
> Cross-domain Management Center