

## **Communication Server 1000**

Release 7.6 Service Pack 9
Release Notes

Issue: 1.2 October 2017

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## **Revision history**

Issue	Date	Reason for Reissue
1.0	30 <sup>th</sup> June 2017	Initial version.
1.1	3 <sup>rd</sup> July 2017	Updated with a number of changes:  - Updated the section with <a href="mailto:the SMGR 7.1">the SMGR 7.1 Hot Fix installation instruction</a> .  - Introduced a section for the SMC deplist installation issue.
1.2	4 <sup>th</sup> October 2017	<ul> <li>Updated with a number of changes:         <ul> <li>Updated the ESPL Service Pack 9 file listing table to reflect info for the updated CSR3 Service Pack and to correct a checksum for cs1000-linuxbase-amsx64-7.65.19.00-5.i686.000 SU.</li> <li>Introduced a section for Common Server R3 SSH access issues.</li> <li>Updated the Fixes Delivered to CS1000 Linux EL6 SU Service Pack 9 table to add info on cs1000-pass_harden-el6-7.65.19.00-3.i686.000 SU.</li> <li>Introduced a section for the MPLR33713 related corruption in case of SMC.</li> <li>Removed the 'SMC deplist installation issue' section.</li> <li>Updated the Patches required for MC32/MC32S cards table to replace MPLR33713 by MPLR33828.</li> <li>Updated the Linux Service Pack Installation Special Instructions section to reflect necessity of the CND update.</li> </ul> </li> </ul>

#### Introduction

This Release Note profiles information about installation downloads and the supported documentation of Communication Server 1000 7.6 GA Release and Service Pack 9. This Release Note also contains important information about new features added to Release 7.6, fixes included in Service Pack 9, known issues, and possible workarounds in this Release.

The offer definition contains other important information about the release. The offer definition is located on Avaya's Sales Portal site under the Products and Solutions / CS1000 / pre sales technical.

https://sales.avaya.com/en/pss/uc-communication-server-1000?view=collateral

A complete list of PI patches available for R7.6 can be found in ESPL.

The online Compatibility Matrix is recommended for Communication Server 1000 Release 7.6 interworking with the Avaya Aura® portfolio in particular. This can be accessed via the Avaya Support Portal at:

https://secureservices.avaya.com/compatibility-matrix/menus/product.xhtml

PLEASE NOTE that latest interop information for Service Pack 9 is included in the "Notes section" under Communication Server Release 7.6.7 (i.e. SP7).

#### What's new in CS1000 Release 7.6 SP9

Please ensure you review the section on Known Limitations and Operational Assistance in this document before proceeding to deploy Service Pack 9.

#### Linux Kernel upgrade

"PAE" (Physical Address Extension) is a special mechanism in some CPUs that allows addressing more than 3GB on 32-bit platforms. So if a user needs to use more than 3GB of RAM on a Linux based server with arch i386 it will be required to use a kernel with PAE support.

PAE mode is already supported by the following CS1000 processors: CPDC, modern COTS servers and Common Servers R1/R2.

Pentium M that is used on CPPM does not support the PAE mode. So kernels with PAE support will not work on CPPM.

The kernel update in Service Pack 9 also allows installation of PAE kernels on CPMG, but it can anyway be impossible to address 4GB of RAM, even if 4 GB are installed. This is related to CPMG architecture, and it is a current platform limitation.

Kernel SUs can be installed in the following way on different platforms with CS1000 Linux Base.

Platform	Kernel SU
CPPM with CS1000 Linux Base	kernel-2.6.18-419.el5.i686.000
CPMG, CPDC, COTS or Common Server R1/R2 with CS1000 Linux Base	kernel-PAE-2.6.18-419.el5.i686.000
CPDC, COTS or Common Server R1/R2 with AMS x64 load installed	kernel-2.6.18-419.el5.x86_64.000
Common Server R3 with CS1000 Linux Base	kernel-2.6.32-696.el6.i686.000
Common Server R3 with AMS x64 load installed	kernel-2.6.32-696.el6.i686.000

Each kernel and kernel-PAE serviceability update has a number of requirements. The main requirement is related to installation of the required cs1000-linuxbase SU prior to installation of the kernel/kernel-PAE SU. This ensures the appropriate kernel file is used depending on the processor type. If SP9 for the ordinary Linux Base or SP3 for amsx64 is being installed, a user should first install a proper cs1000-linuxbase/cs1000-linuxbase-amsx64 SU, which is required by the SP, prior to **spload**. The appropriate kernel file will then be selected automatically depending on processor type.

#### AMS upgrade

Service Pack 9 for CS 1000 R7.6 is accompanied by Service Pack 3 for AMS 7.6 for CS 1000. The update includes a number of security fixes for the base. It does not introduce a new AMS build.

A following table provides a summary on AMS 7.6 builds across Service Packs for AMS 7.6 for CS1000.

amsx64 load version	amsx64 load, 7.65.16.26	amsx64 load for CSR3, 7.65.19
amsx64 GA	7.6.0.807	7.6.0.1008
amsx64 SP1	7.6.0.999	-
amsx64 SP2	7.6.0.1008	-
amsx64 SP3	7.6.0.1008	7.6.0.1008

spstat command can be used by admin2 user to check what Service Pack is currently loaded.

cat /etc/mas.properties can be used by root user to check what AMS build is currently in-service.

Note that AMS 7.0 is end of software support as per PSN 3499 (Communication Server 1000 lifecycle bulletin) on Support Portal. Customers are recommended to upgrade to AMS 7.6 to ensure software support is available.

Note that R7.6 SP8 and newer Service Packs are <u>not</u> tested along with AMS 7.0, and there are known issues with access to AMS 7.0 EM when SP9 is in-service. Please check Known Limitations and Operational Assistance section for more info.

#### Security issues addressed with SP9

- **1. CS1000 dbcom** package was updated on non-amsx64 Linux platforms to close MySQL port if NRS is not deployed. The SU introduces a new hardening module that can be used to open/close MySQL TCP port on demand if this is required.
- **2. CS1000 linuxbase** package was updated on non-amsx64/non-CSR3 Linux platforms because monlist NTP commands (CVE-2013-5211) was not disabled properly for non-clock source configurations.
- **3. CS1000 linuxbase** package was updated on non-amsx64/non-CSR3 Linux platforms because of necessity to allow disabling of RC4 SSH cipher suites for the SSH daemon.

The SU introduces a new hardening module to control hardening levels for cipher suites used by SSHd.

The new default hardening level is medium. It is applied automatically during the SU installation. Please note that appropriate cipher suites can be incompatible with legacy SSH clients.

The low hardening level allows use of the legacy cipher suites that are not recommended for use anymore because of security concerns.

It is possible to switch between low, medium, and high hardening levels with use of following commands:

#### harden ssh level low

#### harden ssh level medium

#### harden ssh level high

**4. CS1000 pass\_harden** package was updated on non-amsx64 Linux platforms to introduce a well-defined account locking policy.

If a password is entered improperly 5 or more times, the account will be locked for an hour. This policy is not applicable to root account, which is not usable for SSH access anyway.

**5. CS1000 Jboss-Quantum** package was updated on non-amsx64 Linux platforms to introduce a new hardening module to control hardening levels for cipher suites used by Jboss for access to the Web UI.

The new default hardening level is medium. It is applied automatically during the SU installation. Please note that appropriate cipher suites can be incompatible with legacy Web browsers.

The low hardening level allows use of the legacy cipher suites that are not recommended for use anymore because of security concerns.

It is possible to switch between low and medium hardening levels with use of following commands:

### harden jboss\_web level low harden jboss\_web level medium

The high hardening level is currently not supported.

- **6. CS1000 Jboss-Quantum** package was updated on non-amsx64 Linux platforms because of CVE-2010-0738, CVE-2010-1428, CVE-2010-2493 and CVE-2011-2908.
- **7. Oracle JDK/JRE** packages were updated on non-amsx64 Linux platforms because of CVE-2016-2183, CVE-2016-3500, CVE-2016-3508, CVE-2016-3485 CVE-2016-5546, CVE-2016-5552, CVE-2017-3241, CVE-2017-3252, CVE-2017-3253, CVE-2017-3526, CVE-2017-3533 and CVE-2017-3544.
- **8. kernel** package was updated on non-CSR3 Linux platforms because of CVE-2016-1583, CVE-2016-5195, CVE-2016-7117, CVE-2017-2634 and CVE-2017-6074.
- **9. kernel** package was updated on CSR3 Linux platforms because of CVE-2016-5195, CVE-2016-6828, CVE-2016-7117, CVE-2016-10142 and multiple other CVEs.
- 10. openssI package was updated on non-CSR3 Linux platforms because of CVE-2016-2108.
- **11. openssl** package was updated on CSR3 Linux platforms because of CVE-2016-6304, CVE-2016-8610 and multiple other CVEs.

#### **CS1000 Software MUST READ**

- CPDC and CPMG cards now require 4GB of RAM. The accessible amount of DRAM for CPMG is 3 GB.
- CPPM and COTS1 servers are only capable of having 2GB of memory. Software Deployment model restrictions have been put in place in the Non-Dedicated deployment model. These platforms no longer support running all applications simultaneously. Please see the Release 7.6 Planning and Engineering guides for the latest guidance on system capacities.
- SSH/Rlogin/Telnet connection using IPv6 is not supported in CS1K. For SSH/Rlogin/Telnet/Web access, only IPV4 format is supported.
- The one-X Communicator for CS 1000 has been End of Sales since 4th March 2013. It is recommended for the small number of customers using one-X Communicator on the CS 1000 to consider migrating those users to IP Softphone 2050 or to one-X Communicator natively on Collab Pack 1.1 for CS 1000.
- Please consider interoperability implications for other Avaya applications / DevConnect applications / SIP trunking prior to any upgrade there is information in <a href="Appendix A">Appendix A</a> referencing the online Compatibility Matrix which is available on the Avaya Support Portal.

#### Supported Upgrades

For the Communication Server 1000 7.6 Release and Service Pack 9, upgrade paths from the following releases have been validated: 3.0, 4.0, 4.5, 5.0, 5.5, 6.0, 7.0, 7.5, and Meridian 1 Rls 25.40B.

#### Special instructions/Points to remember before a fresh installation or an upgrade

Step by Step instructions for installing or upgrading your system can be found in the customer documentation.

Prior to upgrade/migration, please ensure that the latest Deplist/SP is installed for the **current release** of software on your system.

You can find the latest DEP list for your system on the Avaya ESPL Web site https://espl.avaya.com/espl/

#### **Pre-Upgrade SUs files**

PLDS file ID	Pre-Upgrade	File Name	Size	MD5 Checksum		
PLD3 lile lD	Description	File Name	(Mb)	IVIDS CHECKSUM		
Release 6.0 P	Release 6.0 Pre-Upgrade SU & Service Pack					
<u>Linuxbase SU</u>	Linuxbase SU	nortel-cs1000-linuxbase-6.00.18.65-08.i386.001.ntl	0.78	0089D1C8F1A11472F545B9BB4D1B6FF7		
Linux SP	Linux SP	Service_Pack_Linux_6.00_18_20130315.zip	335	EB22C6566DF930ABCDE1321E614E0EE1		
Release 7.0 Pre	Release 7.0 Pre-Upgrade					
<u>Linuxbase SU</u>	Linuxbase SU	nortel-cs1000-linuxbase-7.00.20.10-10.i386.000.ntl	1.25	5383E5E5B115E8DA0F512DCF84BFE41C		
Release 7.5 Pre	Release 7.5 Pre-Upgrade SU & Service Pack					
<u>Linuxbase SU</u>	Linuxbase SU	cs1000-linuxbase-7.50.17.16-21.i386.000.ntl	1.29	af810aadf2a61d10fe2360e4c3c68b41		
Linux SP	Linux SP	SP_7.5_24.zip	1018	816815757d3250a07cff73dede383a0c		

#### Common Server R3 (CSR3) support

The Common Server R3 program is a technology refresh driven by the lifecycle of the Intel processor. The current Common Server 2 (306202 – HP DL360 G8) went End of Sale in June 2016. It was replaced by Common Server R3 (383438 – HP DL360 G9).

The new HP DL360 G9 requires different versions of the Linux OS as well as different application images. The updated Linux ISO images contain "el6" in the file name. The old images will not install on the new Common Server R3. Likewise, the new images are not correct for the older server.

The Avaya Software order codes will remain the same. Across the introduction period, Avaya will ship both versions of the software DVDs together in an envelope. User will select which DVD to install based on the server type. The DVD's are labeled as being for either HP DL360 G8 or HP DL360 G9.

- NTE90768 CS 1000 Applications on COTS Server DVD
- NTE90769 CS 1000 Linux OS on COTS Server DVD
- NTE90770 CS1K AMS R7.6 SW DVD

Deployment Manager now supports two types of targets – non-CSR3 and CSR3 ones. It is allowed to upload two different ISO images at the same time: one for the current CS1000 Linux Base release 7.6 (a file with name cs1000-linuxbase-x.xx.xx.xx.iso) and one for the updated CS1000 Linux Base for CSR3 (a file with name cs1000-linuxbase-el6-x.xx.xx.xx.iso.)

#### MCM lifecycle - changing to EoMS for software with SP8

The Avaya Multimedia Convergence Manager (MCM) component was used for Communication Server 1000 interworking with Microsoft LCS 2005 / OCS 2007. Most customers have now migrated to Microsoft OCS 2010 or later, where the Avaya MCM component is no longer applicable for such interworking. MCM component moved to End of Manufacturing Support for software in R7.6 Service Pack 8 in Calendar Year 2016. Please refer to PSN 3499.

#### PLUGIN 227 moved to PLUGIN 400

From SP8 onwards PLUGIN 227 has been moved to PLUGIN 400. PLUGIN 227 required PKG 366 or PKG 409 to be enabled as a pre-requisite. Now that the PLUGIN has moved to PLUGIN 400, it is available to all systems, even those without PKG 366 or PKG 409. This change was introduced as part of patch MPLR33675 (PLUGIN 227: Skip zeroes insertion when TRDN > DN length.)

Please be aware that if a CS1000 is upgraded from a previous software release to CS1000 7.6 SP8 or later one, or SP is updated on an existing CS1000 7.6, to SP9, that previously had PLUGIN 227 enabled, then after the upgrade, PLUGIN 227 will be automatically disabled. PLUGIN 400 will need to be enabled using the pdt> **ple 400** command.

## Enhancement introduced in SP7, that may be useful as part of SP9 installation process: Linux shutdown command

Service Pack 7 introduced a Linux **shutdown** command which is now accessible to the "**admin2**" user. The shutdown command will gracefully shut down the Linux operating system. All open files on the drive will be closed and drive heads will be parked. The **shutdown** command will work on all CS1000 Linux based processor packs and servers.

In absence of such a graceful shutdown, open files could be left in a partially written condition which in turn can result in unexpected server behavior on subsequent power-up. Typically this would be log files which can be cleaned up on next start up. There is a small chance of leaving other files open that may be damaged in an unplanned power outage.

Avaya **recommends** that in a planned pack or server shutdown, to use the Linux graceful **shutdown** command as a normal procedure.

Please note that physical access will be required to reboot the pack or server after using the **shutdown** command. The pack or server will not automatically restart due to watchdog timeout function. **The command should be used with caution as a result.** 

### **Installing the Service Pack**

Please ensure you review the section on Known Limitations and Operational Assistance in this document before proceeding to deploy Service Pack 9. Note that a System Manager hot fix is required in case of Avaya Aura® System Manager 7.1.

If you upgrade the system from Service Pack 4 or from earlier version, please follow the instructions mentioned in the section Before You Begin. Upgrading from Service Pack 5 or Service Pack 6, please skip this section.

#### Before You Begin:

If you have System Manager deploy SMGR 6.3.19, SMGR 7.0.1 or SMGR 7.1 load.

**SMGR 6.3.19** - System\_Manager\_6.3.19\_r5606363.bin file from <a href="https://support.avaya.com/downloads/

For more information refer to System Manager 6.3.19 Release Notes <a href="https://downloads.avaya.com/css/P8/documents/101036903">https://downloads.avaya.com/css/P8/documents/101036903</a>

**SMGR 7.0.1** - System\_Manager\_7.0.1.3\_r701306724.bin file from <a href="https://support.avaya.com/downloads/downloads/downloads/downloads/action?contentId=C20176121718213440">https://support.avaya.com/downloads/downloads/downloads/downloads/action?contentId=C20176121718213440</a> 4&productId=P0541

For more information refer to Avaya Aura 7.0.1.3 Release Notes

https://downloads.avaya.com/css/P8/documents/101023883

**SMGR 7.1** - The installation files can be downloaded from <a href="https://support.avaya.com/downloads/do

For more information refer to Avaya Aura 7.1 Release Notes

https://downloads.avaya.com/css/P8/documents/101038598

Please review the following customer document: NN43001-407 CS1000\_Patching\_Fundamentals\_7\_6. This contains critical information and procedures for installing the Service Pack on the various platforms:

http://support.avaya.com/css/P8/documents/100170376

You must install all elements of CS1000 7.6 Service Pack 9 on CS1000 7.6 software load.

#### For customers with all system elements on Release 7.6:

In some networks it is critical to have all the elements' certificates signed with SHA256. In this case, the re-installation of Primary UCM (standalone) server is required, since its Default certificate can only be generated on installation. Following this, Service Pack 9 must be applied before configuring the server as Primary. Finally, re-join all the elements to the Security Domain. Also please note that when the backup/restore procedure takes place, it backs up the certificates, so restoring backup (with SHA1) on the SHA256 server will roll back the server to SHA1.

However, in two scenarios, upgrading the Primary UCM server to provide SHA256 signatures may be undesirable:

- If it is not important what Signature Algorithm to use for the Default certificate on Primary UCM server
- If re-installation of Primary UCM server is unacceptable

When either applies, the server SHA256 update application is fully transparent and does not require any special handling with regard to x509 certificates – just follow the installation instructions. In this case, the Primary will still use the SHA1 Default certificate, though elements requesting a SHA 256 certificate will get SHA256-signed certificates after re-joining the Security Domain.

#### For customers with complex mixed releases (7.5, 7.0 or lower):

Before installing Service Pack 9 on Primary UCM server pay attention to the following:

After installing Service Pack 9 on Primary UCM server all newly created Default, WebSSL, DTLS and SIP TLS certificates are signed with SHA256 algorithm. This will cause problems if any **additional** members are joined, that use older releases (7.5 or prior). Note that any members already joined prior to Service Pack 9 deployment on Primary UCM will **not** be affected.

To join older release members after Service Pack 9 deployment, SHA1 certificate generation is required. For this the Linux command **defaultSAconfig** should be executed on Primary UCM server under user admin2. This allows to switch back to SHA1. This command should be invoked on Primary UCM server after service Pack 9 deployment. After this, all newly created Default, WebSSL, DTLS and SIP TLS certificates are signed with SHA1 algorithm.

With the help of the same defaultSAconfig command the Signature Algorithm could be switched to SHA256 again.

#### Upgrade the system to have 800 patch handles

Service Pack 6 introduced support for 800 patch handles (and also increased the amount of patch memory allocated).

When updating from Service Pack 5 and earlier, to Service Pack 6 or later, the steps below MUST be performed to increase to 800 patch handles. When updating from Service Pack 6 or later the below should not be necessary; however it is advised to check and confirm that 800 patch handles are indeed available, before deciding how to proceed.

#### To check:

type sl1Version command in pdt and check Base is x210765q

Example:

pdt> sl1Version

The output will be as follows:

SL1: Date = Nov 1 2013, Time = 14:51:37, Base = x210765q

x210765**q** confirms that 800 patch handles **are** supported; an output of x210765**p** would mean that the 800 patch handle activity has **not** yet been actioned on the system.

For the CPPL platform, the new functionality is included within Service Pack 6 or later. The Service Pack should be installed, and that completes the process for the CPPL Platform to increase the patch handle limit to 800 (process below for CPPM and CPP4 is NOT required).

For CPPM and CPP4 platforms please follow the instructions below.

#### On single CPU machines please perform:

- 1. A. Download CS image 765q\_cpm.zip archive and put it to "/u/pub" directory for CPPM machine.
  - B. Download CS image 765q\_pp4.zip archive and put it to "/u/pub" directory for CPP4 machine.
- 2. Install (pload + pins) MPLR33339 as an individual patch first as a pre-requisite.
- 3. Load the overlay 143 and type the command "UPDATEPATCHLIMIT", enter "y".

#### For High Availability systems please do:

- 1. A. Download CS image 765q cpm.zip archive and put it to "/u/pub" directory for CPPM machine.
  - B. Download CS image 765q pp4.zip archive and put it to "/u/pub" directory for CPP4 machine.
- 2. Install (pload + pins) MPLR33339 as an individual patch first as a pre-requisite.
- 3. Perform **SPLIT** command from Overlay 135 on Active Core.
- 4. Install new build on former Standby Core using UPDATEPATCHLIMIT command from Overlay 143.
- 5. Perform **CUTOVR** command from Overlay 135 on Active Core.
- 6. Install new build on former Active Core using UPDATEPATCHLIMIT command from Overlay 143.
- 7. Perform **JOIN** command from Overlay 135 on Standby Core.

WARNING: SYSLOAD will automatically occur upon the successful completion of the above steps.

NOTE: the procedure UPDATEPATCHLIMIT ONLY updates the patch handle limit and available patch memory. It does NOT install the latest Call Server patches. LD 143 mdp refresh is still required to be done as a later step, to install SP Call Server patches, as per previous Service Packs.

NOTE: it is mandatory to do UPDATEPATCHLIMIT before installing SP6 or later on the Call Server. If not, then the site is at risk of running out of patch memory, and may find that not all patches in the Service Pack will install.

To confirm that the UPDATEPATCHLIMIT has been completed successfully:

type sl1Version command in pdt and check Base is x210765q
 Example:

pdt> sl1Version

The output will be as follows:

SL1: Date = Nov 1 2013, Time = 14:51:37, Base = x210765q

please enter the command STAT CPU in LD 135 and check Total amount of Protected Heap memory is about 20 megabytes

Example:

Protected Heap (bytes)

-----

alloc 2304648 free 18666872 total 20971520

#### Call Server Service Pack (DepList) Installation Special Instructions

Several Call Server patches have special instructions. Please refer to <u>Table 2</u> for details.

#### Linux Service Pack Installation Special Instructions

#### Instructions for Upgrade/Migrations for non-CSR3 systems:

The Service Pack 9 installation sequence for **Primary** Linux server **after** upgrade/migration to 7.65.16 load excluding CSR3 platform:

- Install the latest <u>linuxbase SU</u> (cs1000-linuxbase-7.65.16.23-35.i386.000.ntl)
- Install the latest <u>Jboss SU</u> (cs1000-Jboss-Quantum-7.65.16.23-12.i386.000.ntl)
- Install the latest <u>patchWeb SU</u> (cs1000-patchWeb-7.65.16.23-2.i386.000.ntl)
- Install the latest <u>dmWeb SU</u> (cs1000-dmWeb-7.65.16.23-5.i386.000.ntl)
- Install the latest CND SU (avaya-cs1000-cnd-4.0.48-1.el5.i386.000.ntl)
- Perform applications deployment
- Install the Service Pack (If non-SMGR Patch Manager is used for Service Pack installation: all previously loaded Service Packs, Deplists, Patches and Loadwares will be deleted to save disk space before uploading a new Service Pack/Deplist)

The Service Pack 9 installation sequence for **Member** Linux servers **after** upgrade/migration to 7.65.16 load (**using Primary Patch and Deployment Managers**) excluding CSR3 platform:

- Install the latest <u>linuxbase SU</u> (cs1000-linuxbase-7.65.16.23-35.i386.000.ntl)
- Perform applications deployment
- Install the Service Pack

The Service Pack 9 installation sequence for **Member** Linux servers **after** upgrade/migration to 7.65.16 load (**using Local Patch and Deployment Managers**) excluding CSR3 platform:

- Install the latest <u>linuxbase SU</u> (cs1000-linuxbase-7.65.16.23-35.i386.000.ntl)
- Install the latest <u>Jboss SU</u> (cs1000-Jboss-Quantum-7.65.16.23-12.i386.000.ntl)
- Install the latest <u>patchWeb SU</u> (cs1000-patchWeb-7.65.16.23-2.i386.000.ntl)
- Install the latest <u>dmWeb SU</u> (cs1000-dmWeb-7.65.16.23-5.i386.000.ntl)
- Install the latest CND SU (avaya-cs1000-cnd-4.0.48-1.el5.i386.000.ntl)
- Perform applications deployment
- Install the Service Pack (If non-SMGR Patch Manager is used for Service Pack installation: all previously loaded Service Packs, Deplists, Patches and Loadwares will be deleted to save disk space before uploading a new Service Pack/Deplist)

NOTE: Ensure that Jboss-Quantum patch cs1000-Jboss-Quantum-7.65.16.23-12 and avaya-cs1000-cnd-4.0.48-1.el5.i386.000 are applied before configuring and joining member or backup server to security domain.

#### Instructions for Upgrade/Migrations for CSR3 systems:

The Service Pack 9 installation sequence for **Primary** Linux server **after** upgrade/migration to 7.65.19 load:

- Install the latest linuxbase SU (cs1000-linuxbase-el6-7.65.19.00-3.i686.000.ntl)
- Install the latest Jboss SU (cs1000-Jboss-Quantum-el6-7.65.19.00-2.i686.000.ntl)
- Install MPLR33773 (p33773\_1.ntl)
- Perform applications deployment
- If /tmp/sp directory is missed on the target server, create it with use of mkdir /tmp/sp as admin2 user
- Install the Service Pack (If non-SMGR Patch Manager is used for Service Pack installation: all previously loaded Service Packs, Deplists, Patches and Loadwares will be deleted to save disk space before uploading a new Service Pack/Deplist)

The Service Pack 9 installation sequence for **Member** Linux servers **after** upgrade/migration to 7.65.19 load (**using Primary Patch and Deployment Managers**):

- Install the latest linuxbase SU (cs1000-linuxbase-el6-7.65.19.00-3.i686.000.ntl)
- Perform applications deployment
- If /tmp/sp directory is missed on the target server, create it with use of mkdir /tmp/sp as admin2 user
- Install the Service Pack

The Service Pack 9 installation sequence for **Member** Linux servers **after** upgrade/migration to 7.65.19 load (**using Local Patch and Deployment Managers**):

- Install the latest <u>linuxbase SU</u> (cs1000-linuxbase-el6-7.65.19.00-3.i686.000.ntl)
- Install the latest <u>Jboss SU</u> (cs1000-Jboss-Quantum-el6-7.65.19.00-2.i686.000.ntl)
- Install MPLR33773 (p33773\_1.ntl)
- Perform applications deployment
- If /tmp/sp directory is missed on the target server, create it with use of mkdir /tmp/sp as admin2 user
- Install the Service Pack (If non-SMGR Patch Manager is used for Service Pack installation: all previously loaded Service Packs, Deplists, Patches and Loadwares will be deleted to save disk space before uploading a new Service Pack/Deplist)

NOTE: Ensure that Jboss-Quantum patch cs1000-Jboss-Quantum-el6-7.65.19.00-2 and MPLR33773 are applied before configuring and joining member or backup server to security domain.

#### After installing Service Pack 9:

- 1. Login to Element Manager
- 2. Go to IP Network Nodes and save and synchronize every Node which has IP Media Services enabled. If High Scalability system with Survivable IP Tones is deployed login to Element Manager:
- 3. Go to IP Network Nodes Node Details IP Media Services and manually set Local Media Server Role to "SIP Media Gateway".

# Instructions for existing CS1000 Release 7.6 System (i.e. running an older Service Pack version) excluding CSR3 platform

In general, if the SP contains the following SU's and if they have changed, they will be available on ESPL as standalone files. They must be installed individually first via CLI, **before** installing the SP

The Service Pack 9 installation sequence for Primary Linux server:

- cs1000-linuxbase-x.xx.xx.xx-xx
- cs1000-Jboss-Quantum-x.xx.xx.xx-xx
- cs1000-patchWeb-x.xx.xx.xx-xx
- cs1000-dmWeb-x.xx.xx.xx-xx
- Install the Service Pack (If non-SMGR Patch Manager is used for Service Pack installation: all previously loaded Service Packs, Deplists, Patches and Loadwares will be deleted to save disk space before uploading a new Service Pack/Deplist)

The Service Pack 9 installation sequence for Member Linux servers (using Primary Patch Manager):

- cs1000-linuxbase-x.xx.xx.xx-xx
- Install the Service Pack (If non-SMGR Patch Manager is used for Service Pack installation: all previously loaded Service Packs, Deplists, Patches and Loadwares will be deleted to save disk space before uploading a new Service Pack/Deplist)

The Service Pack 9 installation sequence for Member Linux servers (using Local Patch Manager):

- cs1000-linuxbase-x.xx.xx.xx-xx
- cs1000-Jboss-Quantum-x.xx.xx.xx-xx
- cs1000-patchWeb-x.xx.xx.xx-xx
- cs1000-dmWeb-x.xx.xx.xx-xx
- Install the Service Pack (If non-SMGR Patch Manager is used for Service Pack installation: all previously loaded Service Packs, Deplists, Patches and Loadwares will be deleted to save disk space before uploading a new Service Pack/Deplist)

# Instructions for existing CS1000 Release 7.6 System, CSR3 platform (i.e. running an older Service Pack version)

In general, if the SP contains the following SU's and if they have changed, they will be available on ESPL as standalone files. They must be installed individually first via CLI, **before** installing the SP

The Service Pack 9 installation sequence for Primary Linux server:

- cs1000-linuxbase-el6-x.xx.xx.xx-xx
- cs1000-**Jboss-Quantum**-el6-x.xx.xx.xx-xx
- If /tmp/sp directory is missed on the target server, create it with use of mkdir /tmp/sp as admin2 user
- Install the Service Pack (If non-SMGR Patch Manager is used for Service Pack installation: all previously loaded Service Packs, Deplists, Patches and Loadwares will be deleted to save disk space before uploading a new Service Pack/Deplist)

The Service Pack 9 installation sequence for Member Linux servers (using Primary Patch Manager):

- cs1000-linuxbase-el6-x.xx.xx.xx-xx
- If /tmp/sp directory is missed on the target server, create it with use of mkdir /tmp/sp as admin2 user

• Install the Service Pack (If non-SMGR Patch Manager is used for Service Pack installation: all previously loaded Service Packs, Deplists, Patches and Loadwares will be deleted to save disk space before uploading a new Service Pack/Deplist)

The Service Pack 9 installation sequence for Member Linux servers (using Local Patch Manager):

- cs1000-**linuxbase**-el6-x.xx.xx.xx-xx
- cs1000-Jboss-Quantum-el6-x.xx.xx.xx-xx
- If /tmp/sp directory is missed on the target server, create it with use of mkdir /tmp/sp as admin2 user
- Install the Service Pack (If non-SMGR Patch Manager is used for Service Pack installation: all previously loaded Service Packs, Deplists, Patches and Loadwares will be deleted to save disk space before uploading a new Service Pack/Deplist)

#### **Special Instructions for SUs contained within Service Pack**

There are several SUs, which contain special Instructions. Please refer to Table 4 and Table 6 for details.

#### AMS SP Installation Special Instructions for AMS 7.0

Note that AMS 7.0 is end of software support as per PSN 3499 (Communication Server 1000 lifecycle bulletin) on Support Portal. Customers are recommended to upgrade to AMS 7.6 to ensure software support is available.

Please find details of AMS QFE installation in chapter 10 of NN43001-407 CS1000\_Patching\_Fundamentals\_7\_6.

The order of patching AMS 7.0 servers is as follows:

• Ensure that the AMS targets have QFE-platform 1-12 patches and QFE-EM 1 patch applied prior to the SP installation. The QFEs can be downloaded via ESPL. Click here to see details for QFE files.

To install AMS patches use the following command under admin2:

maspatch apply </path/to/patch/file> -n

- Extract and Install the latest linuxbase SU (cs1000-linuxbase-7.65.16.23-35.i386.000.ntl)
- Install Service Pack

#### AMS SP Installation Special Instructions for AMS 7.6

AMS 7.6 Service Pack 3 installation sequence:

- Install the latest linuxbase SU (cs1000-linuxbase-amsx64-7.65.16.26-5.i386.000 in case of non-CSR3 servers or cs1000-linuxbase-amsx64-7.65.19.00-5.i686.000 in case of CSR3.)
- Stop Avaya applications with use of **appstart stop** command.
- In case of CSR3 if /tmp/sp directory is missed on the target server, create it with use of mkdir /tmp/sp as admin2 user
- Install Service Pack

After installing AMS 7.6 Service Pack 3 reboot the server.

### **AMS 7.6 Special Instructions**

A technical white paper on "CS1000 Linux Base for AMS 7.6" is available via Support Portal @ https://downloads.avaya.com/css/P8/documents/101012827

It can also be accessed as follows

- http://support.avaya.com
- Click on "Support by Product" and then "Documents" link on the dashboard menu.
- Enter product name as "Communication Server 1000"
- Select "7.6" from the Choose Release dropdown
- Filter based on "White Paper" content type

#### Notes on migration of AMS 7.0 database with use of an USB flash

If it is necessary to migrate the AMS 7.0 database using a USB flash drive, appropriate AMS backup files should be copied into the "amsinfo" directory on the USB flash drive.

#### Configuration of SNMP

Since registration in UCM security domains is not supported for servers with AMS 7.6, it is no longer possible to configure SNMP profiles and configure a list of destinations for SNMP traps in the SNMP Profile Manager.

Instead of SNMP Profile Manager, AMS Element Manager should be used for configuration of SNMP traps and SNMP agent. Appropriate settings can be changed on a next AMS EM page:

System Configuration -> Network Settings -> General Settings

For more information on use of AMS Element Manager for configuration of SNMP, please refer "Implementing and Administering Avaya Media Server 7.6".

In case of necessity to change "System Name", "System Contact" or "System Location" strings, which are used for identification of a system by network management systems, use **basesnmpconfig** command in cli.

In case of necessity to change "Navigation System Name" or "Navigation Site Name" identification strings that are included into SNMP traps from CS1000 Linux Base use **basesnmpconfig** command in cli.

Please note, any changes in AMS EM related to SNMP traps or to SNMP agent should be followed by a reboot of the system. This is required for restart of SNMP related services. The services can also be restarted with use of **basesnmpconfig** --restart command. In this case the reboot can be avoided.

## **CS1000 Download and Installation**

Download the files listed under **Communication Server 1000 7.6 Service Pack 9 / Deplist and AMS QFEs** files from the Avaya ESPL Web site <a href="https://espl.avaya.com">https://espl.avaya.com</a>. These files will be required during the installation of Release 7.6 Service Pack 9.

Also note that a System Manager 7.1 hot fix is required – more information in Known Limitations and Operational Assistance in this document.

For more information, see "Installing the Service Pack" section.

#### ESPL Service Pack 9 file listing & Avaya Support 7.6 Software Images

ESPL hyperlink	Description	File Name	Size (Mb)	MD5 Checksum			
	Communication Server 1000 7.6 Service Pack 9/Deplist, AMS QFEs and DSP loadware.						
Note: Lin	ks below open only the	main page. Select Version 7.6 and	specify the	content to be downloaded.			
		Service Pack 9 New Content.					
Service Pack 9	7.6. Service Pack 9	SP_7.6_9.zip	1193.53	F5F6B91B552F4C0E4514BFC0471B1FE4			
Service Pack 9 for CSR3	7.6. Service Pack 9 for CSR3	SP_el6_7.6_9_1.zip	624.13	52F4D1B36118E46D2C169BE75BFC7F38			
CS deplists SP9	CPPM deplist	CPM_7.6_9.zip	~1.60	-			
	CPP4 deplist	PP4_7.6_9.zip	~1.60	-			
	CPPL deplist	CPL_7.6_9.zip	~1.60	-			
MGC and UDT loadware	MGC and UDT loadware	MGC_UDT_loadware.zip	4.14	14105382B83B6B95D30205C0C8203F88			
SMC deplist	SMC deplist	SMC_7.6_9.zip	~0.01	-			
MC32S deplist	MC32S deplist	MC32S_7.6_9.zip	~0.02	-			
AMS_X64 SP3	AMS_X64 Service Pack 3, AMS 7.6	SP3_amsx64_24052017.ntl	321.38	B9680AEE83F139A45DC02AEB5A3F17E4			
AMS X64 SP3 for CSR3	AMS_X64 Service Pack 3 for CSR3, AMS 7.6	SP3_el6_amsx64_24052017.ntl	58.03	02FA653B4E2AEE1A1AFA5EF2B5660688			

ESPL hyperlink	Description	File Name	Size (Mb)	MD5 Checksum			
	A mandato	ory System Manager hot fix for SM	GR release	es 7.1			
	Note: This is available from ESPL and PLDS						
SMGR 7.1 HF	SMGR 7.1 hot fix Software Update Rev No: 7.1.0.0.116832	System_Manager_R7.1.0.0_S11_HF_71 0006832.bin	474.63	353825842FEDCB4AAF11ED7D346C8576			
	The following SUs mu	ist be installed prior to installing th	e 7.6 Linu	x Service Pack 9			
		Note: These are available from ES	SPL				
<u>cs1000-linuxbase-</u> <u>7.65.16.23-35</u>	LinuxBase (install First!)	cs1000-linuxbase-7.65.16.23- 35.i386.000.ntl	2.61	61D4BFD8BB035F49925FCF5B1E529EDC			
<u>cs1000-Jboss-</u> <u>Quantum-</u> <u>7.65.16.23-12</u>	Jboss-Quantum (install Second!)	cs1000-Jboss-Quantum-7.65.16.23- 12.i386.000.ntl	230.66	84980621E9B9C5446B8C67EAE9B8FDFF			
cs1000-patchWeb- 7.65.16.23-2	patchWeb (Install Third!)	cs1000-patchWeb-7.65.16.23- 2.i386.000.ntl	12.85	11EA649864763FF3A0B32F5818F02999			
cs1000-dmWeb- 7.65.16.23-5	dmWeb (install Fourth!)	cs1000-dmWeb-7.65.16.23- 5.i386.000.ntl	27.59	6890A8B45329EA06507732ECA7CB0715			
Th	ne following SUs must be	e installed prior to installing the 7.6	5 Linux Ser	vice Pack 9 for CSR3			
		Note: These are available from Es	SPL				
<u>cs1000-linuxbase-</u> <u>el6-7.65.19.00-3</u>	LinuxBase (install First!)	cs1000-linuxbase-el6-7.65.19.00- 3.i686.000.ntl	1.09	4C04323254AEAD77A7EDAB932644D52B			
<u>cs1000-Jboss-</u> <u>Quantum-el6-</u> <u>7.65.19.00-2</u>	Jboss-Quantum (install Second!)	cs1000-Jboss-Quantum-el6-7.65.19.00- 2.i686.000.ntl	223.88	95D5AB2CE240A97937B6D99E2BA8F048			
	The following SUs must	be installed prior to installing the	7.6 AMS_>	(64 Service Pack 3			
		Note: These are available from ES	SPL				
<u>cs1000-linuxbase-</u> <u>amsx64-7.65.16.26-</u> <u>5</u>	LinuxBase (install First!)	cs1000-linuxbase-amsx64-7.65.16.26- 5.i386.000.ntl	1.25	720F548F7E87DF31024E02E886774FF1			
The	following SUs must be in	nstalled prior to installing the 7.6 A	MS_X64 S	Service Pack 3 for CSR3			
		Note: These are available from ES	SPL				
cs1000-linuxbase- amsx64-7.65.19.00- 5	LinuxBase (install First!)	cs1000-linuxbase-amsx64-7.65.19.00- 5.i686.000.ntl	1.08	5FA81881BBEC75656E8A4A792F346360			

ESPL hyperlink	Description	File Name	Size (Mb)	MD5 Checksum			
The content carried forward from previous SPs							
<u>CS image</u>	СРРМ	765q_cpm.zip	13.60	3FC30006CB551B769F7CA486B48DC07A			
	CPP4	765q_pp4.zip	13.53	490374D73558E645537ED078DB4B2609			
DSP loadware	DSP loadware	DSP_loadware.zip	10.06	9D2BCAA0F7745FFE5B6D60E3F4F860C7			
MC32 (SA) and MC32S loadware	IPL 7.65.17 loadware for MC32 and MC32S	IPL76517_loadware.zip	9.77	A192571CDC8A4B199FF3E2EC59DE0664			
AMS 7.0 QFEs	AMS 7.0 QFE-platform patches #1-12 and QFE-EM patch #1	QFE_7.0.0.623.zip	12.67	2A71BAD877412BBA7A9BA2F81126CD0A			
		ommunications Server 1000 7.6 S/V					
	Note: In PLDS, selec	t Application: Communication Serve	er 1000 an	d Version = 7.6			
CS1K0000227	CPPM Call Server	07.65P_B00_P100_M00_CPPM.zip	62.35	B8B97909E3DCE54F023A1A6A6C3D0DC3			
CS1K0000228	CPP4 Call Server	07.65P_B00_P100_M00_CPP4.zip	82.61	B2D59771FCCB25964BEA3340D1DBB08E			
CS1K0000300	Linux Base	cs1000-linuxbase-7.65.16.23.iso	930.91	A0344A55D609491576EC05196C082F9B			
CS1K0000230	Linux Base CF Zip	cs1000-linuxbase-7.65.16.00_cf.zip	929.89	70352FF88DD51671C5FB1CFC354BCFCF			
CS1K0000231	Linux Apps	cs1000-linux-76516-P103-M00.nai	773.50	BFE8F571E5A18DA7A47741C77BD299AC			
CS1K0000320	Linux Base for CSR3	cs1000-linuxbase-el6-7.65.19.00.iso	850.39	AA5BC82ECE79244742381D87B939F157			
CS1K0000322	Linux Apps for CSR3	cs1000-linux-el6-76519-P100-M00.nai	825.96	CE1E5798962761E258953A1A51BB2BC2			
CS1K0000301	Linux Apps, AMS 7.0, MAS 7.0	cs1000-linux-mas-76516-P100-M01.nai	856.80	F0E2314FEECD541AA637CCC3ADA35679			
CS1K0000312	AMS_X64 ISO, AMS 7.6	cs1000-linuxbase-amsx64- 7.65.16.27.iso	843.39	C425BAD23E45949B1CE57A6D6C4FA68C			
<u>CS1K0000306</u>	AMS_X64 CF Zip, AMS 7.6	cs1000-linuxbase-amsx64- 7.65.16.26_cf.zip	827.66	42C6F80313467928A540964C26E1822A			
CS1K0000324	AMS_X64 ISO for CSR3, AMS 7.6	cs1000-linuxbase-amsx64- 7.65.19.00.iso	690.72	C8C884C5F08571E9773A60DC3D1AAA90			

ESPL hyperlink	Description	File Name	Size (Mb)	MD5 Checksum			
	Communication Server 1000 7.6 BIOS upgrade files						
	Note: In PLDS, select	Application: Communication Serve	er 1000 an	d Version = 7.6			
CS1K0000110	CPP4 BIOS	cpp4v16.zip	0.29	A3590EFA5D8EC0B7980CB19BDA77B761			
CS1K0000111	CPPM BIOS	CPPM_CS_BIOS_UPGRADE.zip	0.35	8D1F957BA07270879CC4B80D5544BA73			
CS1K0000274	CPDC BIOS	CPDC_Version_9_BIOS_UPGRADE.zip	0.76	BD9FF4F440CD991D3BC05BEAAF85CE92			
	Communicatio	n Server 1000 7.6 Standalone Tool	s and App	lications			
		Note: These are available from Es	SPL				
DECT MANAGER	Dect Manager-1.01.11335	DectManagerSetup_1.01.11335.exe	101.93	CAE3C113D5B9A5E4DDF3A5C607736CC4			
DBA TOOLKIT	DBA Toolkit version 2.0.0.17	DBA_Setup_2.0.0.17.exe	3.28	5B4C32664024439BDB8177EC943C9100			
HEALTH CHECK MONITOR	Health Check Monitor	HealthCheck_v1.02.07.00.msi	4.68	4ECFC629957651A09FE36E03C03EE0D9			

## **Problems fixed in Avaya CS1000 Service Pack 9**

The following are the fixes delivered in Avaya CS1000 7.6 Service Pack 9 software release. These fixes are in addition to the Release 7.6 software load.

#### Table 1: Fixes delivered to CS1000 Call Server Service Pack 9.

Patches with RED fill have special Instructions which are documented in Table 2.

Patch Id	Version		C P L	P P 4	C P M
MPLR33694		BUG569 when SIPL is redirected by TRO to a busy DN	Υ	Υ	Υ
MPLR33708	MPLR33566	MERGE: MPLR33708 BUG1500/1501 during TRO to a CFW set + MPLR33566(Drop of outgoing EUROISDN call to busy number without signal)+ MPLR33470 (SIPL (SIP LINE): UEXT HOT U key remains active when SIP Line Set calls to a busy PSTN user and disconnects) + MPLR33097(BUG105, BUG058, BUG567 after UIPE sends DISC (User Busy) on established call)	Υ	Υ	Y
MPLR33711		An active SSH session is closed after an hour of work *** THIS PATCH IS NOT APPLICABLE TO VXELL ***		Υ	Υ
MPLR33715	MPLR33461	MERGE: MPLR33715 (BUG865, BUG1370, BUG1363 when Attendant performs a Camp-On with IP Music) + MPLR33461 (Incoming call doesn't have correct CLID through AML link in MO-BO setup (normal mode))	Υ	Υ	Υ
MPLR33720		Adding new TN changes MARP on CS unexpectedly	Υ	Υ	Y
MPLR33729		CLID not being passed from Callpilot to CS1K, CS1K in Tandem via SIP, with CLS CLBA and Plugin 218	Υ	Υ	Y
MPLR33735	MPLR33531	MERGE: MPLR33735 "BUG549 is caused by MPLR33733 (SIP TRUNK LOCKUP CAUSED BY SIP INFO MESSAGE FLOOD)" + MPLR33733 "SIP TRUNK LOCKUP SUSPECTED TO BE CAUSED BY SIP INFO MESSAGE FLOOD" + MPLR33531 "TRO doesn't work when making blind transfer call over SIP trunks "	Y	Υ	Y
MPLR33738		BERR0705 in ld 117 during an attempt to register Call Server in a security domain *** PLEASE NOTE THIS PATCH IS NOT APPLICABLE TO VXELL ***		Υ	Y
MPLR33739	MPLR32398	MERGE: MPLR33739 "QSIG connection to CISCO. Invalid QSIG QPR CID value for QPR." + MPLR33721 "QSIG QPR (Path Replacement) causes BUG302 (BUG0302), MEMxxx (MEM220, MEM221, MEM223) and XMI queue corruption (that can be checked/cleared manually using pdt> xmi qs. pdt> xmi rx)" + MPLR32398 "BUG302 (BUG0302) from TNTRANS: QPR_ACT_IND: QPR_DEC_FAC: QPR_HANDLER"	Y	Υ	Υ
MPLR33744	MPLR33700	MERGE: MPLR33744 "CTI cannot control CDN call after making emergency and supervisor calls" + MPLR33700 "CS1000 is sending wrong call ID on AML link for Attendant Recall scenarios"	Υ	Υ	Y
MPLR33745		BUG5728 printed if MWI is sent to the notified party DN prefixed with LSC.	Υ	Υ	Υ
MPLR33747		Use of IP ATTN consoles leads to a memory leakage on Call Server	Υ	Υ	Υ

Patch Id	Previous Version	Patch Title	C P L	P P 4	P
MPLR33749		SIPLine is BUSY after a disconnect from a local conference with Call Pilot	Υ	Υ	Υ
MPLR33752		BUG7058 SWD WATCHDOG just after an INI / Warmstart. Required to store the TDB block from a dedicated task context to prevent this happening	Y	Y	Υ
MPLR33753		Use of the call log feature can cause BERRs in snapCollect task and a Call Server Warm Start	Υ	Υ	Υ
MPLR33754		CS1000 can't access any load, got OVL306. Have to do manual INI to recover. ** SPECIAL INSTRUCTIONS** PLEASE REFER TO EXTERNAL NOTES SECTION FOR DETAILS **	Υ	Υ	Υ
MPLR33759		MERGE: MPLR33704: BUG5578 in RAS trace with ELC feature activated + MPLR33658: CPND name gets removed from CS DB if the key with same assigned name is changed to NUL + MPLR33746: Called party name display is not following extension when reprogrammed on set, getting MEM208 error + MPLR33759 Called party name display is not following extension when reprogrammed on set, getting MEM208 error	Y	Υ	Υ
MPLR33763	MPLR33575	MERGE: MPLR33763:BUG365 PRINTED FREQUENTLY(fix for AUD017, AUD018 during SIP call pickup) + MPLR33748 (SIPLine Phone cannot pickup SIPLine phone on another node) + MPLR33575 (BUG6504 prints when a SIP Line Phone picks up a held call) + MPLR33518 (BUG6504 and no speech after SIPLine phone picks up BLA call)	Y	Υ	Υ
MPLR33764	MPLR33668	MERGE: MPLR33764 (No-way speech after CallPilot transfers with early media) + MPLR33668(patch for BUG330 - TAT related scenarios) + MPLR33631 + MPLR33506 ***REFER TO SPECIAL INFORMATION**	Y	Υ	Υ
MPLR33767	MPLR32870 MPLR33320	MERGE:MPLR33767 (PI: Rework of PI MPLR33760, MPLR33320 for additional requirement to expand the solution for all UDP calls) + MPLR33086(Aura TR87/CS1000 SIP - Call forwarding or redirectCall/Call Notification v.3.8 - Incomplete notifications) + MPLR32870 (CS1000 is deleting starting digits from the dialed number and sending it to AACC Over AML link in CRS message) Note1** Need to put MPLR21945 to activate MPLR33760 functionality. Note2** SPECIAL INSTRUCTIONS: see external notes for more details.	Y	Υ	Υ
MPLR33772	MPLR33622	MERGE:MPLR33772(MWI with MPLR33622 doesn't work. With MPLR32970, it works) + MPLR33622(CS sends ACK message only to 0 unit of DMC card during MSMN process.) + MPLR32970(DECT call to local digital set is dropped after some time.)	Υ	Y	Υ
MPLR33776		BUG5861 WITH MOBX DEFLECTION	Υ	Υ	Υ
MPLR33778		ORIGID contains invalid numbers in CDR records	Υ	Υ	Υ
MPLR33779	MPLR33629	MERGE: MPLR33779 (INI due to SL1 memory data corruption) + MPLR33629 (INI occurs due to MEM0216 Memory corruption. Logical page is out of range.) + MPLR33319 (MEM315 and MEM316 print in groups) + MPLR33114 (MEM224 and others triggered from valid data, causing corruption)	Y	Υ	Υ

Patch Id	Previous Version	Patch Title	C P L	P P 4	C P M
MPLR33780	MPLR33605	MERGE: MPLR33780 (Unexpected USM Offhook to AACC/CCT causing CCT to become stuck) + MPLR33605 (SIP Line Unable to cancel Call Forward using FFC Code if HOT U is on key 8 or higher) + MPLR33538 (PI: Replacing calling number with the DN configured on the HLCL prompt (reworked MPLR33521). *** TO ACTIVATE PATCH FUNCTIONALITY MPLR25516 IS NEEDED ***) + MPLR33345 (CS1000 doesn't send AML/MLS Transfer Complete message when POM Dialler completes an external transfer) + MPLR32576 (NHC to SIPL call fails, causes call to drop) + MPLR32854 (PI: Enhancements for the PCA feature. To activate PI functionality MPLR20653 is required) + MPLR33077 (GEN: Not possible to forward the originator with five or more digits DN to the CallPilot (also known as ASCOM patch 636). MPLR24870 is required to activate PI functionality)	Y	Υ	Υ
MPLR33783		PI: MPLR16691 rewrite for the problem "Voicemail disconnects call because of wrong number in History field." (Note: to enable use ACT MPLR16691). *** NOTE: SPECIAL INSTRUCTIONS. SEE EXTERNAL NOTES SECTION ***	Υ	Υ	Υ
MPLR33786		BERR0705 Exception 14 in Task tFtpdServ0 (0xcbf1c40) *** Not applicable for VxELL ***		Υ	Υ
MPLR33787	MPLR33663	MERGE: MPLR33787 Workaround for Lineside issue with quick disconnect. Implement new solution from MPLR33785 + MPLR33663( Issue with ACD BCS) + MPLR33492 Issues Observed on Lineside E1 card + MPLR33293(Issues Observed on Lineside E1 card) + MPLR32491(DECT MSMN (Mulit-site Mobility Networking) do not work at visitor site) + MPLR33154(BUG6504 after EOVR camp- on to DCS set) *** PATCH HAS SPECIAL INSTRUCTIONS, PLEASE REFER TO EXTERNAL NOTES *** *** ACT MPLR33284 is needed to activate patch functionality ***	Υ	Υ	Υ
MPLR33791		callLog enhancements - configurable number of ncl.log files + new tracing level *** NOTE: SPECIAL INSTRUCTIONS. SEE EXTERNAL NOTES SECTION ***	Υ	Υ	Υ
MPLR33793	MPLR33665	MERGE: MPLR33793 (No ringback when SIP client calls ACDN forwarding (NCFW) to CallPilot forwarding to IP client) + MPLR33548 (No ringback provided to SIP line when calling an ACDN forwarded (NCFW) to analog TN)	Υ	Υ	Υ
MPLR33794	MPLR33781 MPLR33323	MERGE:MPLR33794 (BUG865 occurs when supervisor answers the Emergency or simple call from agent) + MPLR33781 (BUG865 when observe feature and ZBD feature are activated.) + MPLR33323 (ERR144 is printed when ACD agent answers an incoming virtual trunk call) + MPLR33156 (BUG865 appears when making virtual trunk call using one way hotline key) + MPLR32871 (BUG865 is shown on TTY when BRI EXT is calling over SIP trunk to any set)	Y	Υ	Υ
		Patches carried forward from SP8			
MPLR32540		Bulk Provision failed to transfer data block RDB to destination CS	Y	Υ	Υ
MPLR32553		PLUGIN 27 getting disabled after call server INI if PKG 366 is restricted, PKG 409 is unrestricted	Υ	Υ	Υ
MPLR32555		BUG6507 is printed on CS1000M during NSBR scenario	Υ	Υ	Υ

Patch Id	Previous Version	Patch Title	C P L	P P 4	C P M
MPLR32556		INI after BERR0705 and BUG7062, BUG7058 on RPT log when SIPL set completes conference call using MGCONF	Υ	Υ	Υ
MPLR32562		PI: Feature Operation Failure FFC RPA code does not work on 500. ACT MPLR10373 activates PI functionality	Υ	Υ	Υ
MPLR32564		DCH recovery slow on MSDL DCH with Package 418 equipped	Υ	Υ	Υ
MPLR32571		AUD200 corrupts ESA call display of caller identity, Also AUD201 and AUD208	Υ	Υ	Υ
MPLR32572		MPLR32452 (BUG7058 and INI from BUILDNTPREQUEST) causes NTP to fail. This patch replaces MPLR32452 ***REFER TO SPECIAL INSTRUCTION*** Not applicable for CPL platform		Y	Υ
MPLR32573		SIPL set has MADN failed to join the bridge	Υ	Υ	Υ
MPLR32580		Prevent illegal combination of overlays being simultaneously loaded during GR database replication which can then cause corruption	Υ	Υ	Υ
MPLR32582		BUG266 when call from 500 set to ISDN trunk is blocked by NFCR and intercept treatment is RAN route	Υ	Υ	Υ
MPLR32587		CONFERENCE AND TRANSFER BUTTONS DISPLAYED (WHEN THEY SHOULD NOT BE) ON CALLED TELSET, AFTER SIPL TELSET MAKES A SECOND CALL TO THAT TELSET	Υ	Υ	Υ
MPLR32591		DTMF not being passed when call is connected through Avaya Aura Messaging	Υ	Υ	Υ
MPLR32594		PI: SECURITY CHECK ON DID/CO TRUNKS. Install MPLR21988 to activate PI functionality	Υ	Υ	Υ
MPLR32596		MPLR32596 - CS1000M crosstalk when SIPL is used with Music-on-hold	Υ	Υ	Υ
MPLR32607		INI after BERR0705 From IOWRITE::WRITE_SERV_CIRC called on CS1000E	Υ	Υ	Υ
MPLR32613		Inactive PI: No TRO when call diverted to rpa DSC 18 or 10. ACT MPLR22854 activates PI functionality	Υ	Υ	Υ
MPLR32615		MobileX cell phone user cannot do the call transfer if the 2nd call is to Call Pilot (while greeting is played).	Υ	Υ	Υ
MPLR32616	MPLR32584	Prevents CPPM/CPP4 INI after BERR0705 from accountSL1PrivLogoutTimeGet:: ACOUNT_sl1:ACCLOUTG		Υ	Υ
MPLR32623		Prevent corruption of data through the use of service change overlays 58 (RPA) and 79 (VNS) within multi user login environment. *** NOTE: SPECIAL INSTRUCTIONS. SEE NOTES SECTION FOR DETAILS ***	Υ	Υ	Υ
MPLR32628		INI after BUG7058 SWD WATCHDOG, AFTER MEM401, MEM215, data corruption from PROCEDURE PROG_CFW	Υ	Υ	Υ
MPLR32640		BUG5835 appears when ACD agent presses MSB and NRD immediately		Υ	Υ
MPLR32654		Unable to deactivate deplist for CPPM cores call server via Patch manager. ***SPECIAL INSTRUCTIONS***. Applicable only for CPPL platform.	Υ		

Patch Id	Previous Version	Patch Title	C P L	P P 4	C P M
MPLR32658		SIP DECT TELSET gets busy tone when Speed Dial feature is used by SSPU FFC code	Υ	Υ	Υ
MPLR32659		Element Manager Error: There are no Trunk steering codes in the range specified. (H8002) in EM due to unequipped package 290 CCB (collect call blocking)	Y	Υ	Υ
MPLR32662		Downloading loadware to msdl takes long time	Υ	Υ	Υ
MPLR32665		FastSync feature does not identify whether changes came from EM (Element Manager) or were entered manually in Call Server LD 95	Υ	Υ	Υ
MPLR32671		PI: SAR(overlay 88)/ICR(Incoming Call Restriction) *** NOTE: ALSO KNOWN AS ASCOM PATCH 239 *** ACT MPLR21285 activates PI functionality	Y	Υ	Υ
MPLR32675		UEXT/SIPL TELSET unable to de-activate call forward using ffc code, if configured as MARP.	Υ	Υ	Υ
MPLR32676		Contact centre call getting dropped when reaching agent	Υ	Υ	Υ
MPLR32689		BUG1500 when calling busy trunk route	Υ	Υ	Υ
MPLR32700		BUG7058 SWD: Swd watchdog timer expired on task tSL1 after printing data in pdt mode of Cores CS. Patch is applicable only for VXELL platform.	Υ		
MPLR32701		TTY0018 FD -1 messages being printed frequently	Υ	Υ	Υ
MPLR32702		DST Inactive on wrong date		Υ	Υ
MPLR32704		BCC (EM) Courtest Change with KEM attached to IP phone doesn't work properly	Υ	Υ	Υ
MPLR32708		DTMF tone generated from CCT reference client affects CDR output	Υ	Υ	Υ
MPLR32713		INI after BERR0705 from INCR_VGW_UNIT::SCPRTXXX when LD 20 PRT of PRI2 loop is attempted.	Υ	Υ	Υ
MPLR32718		INI after BERR0705 from INCR_VGW_UNIT::SCPRTXXX when LD 20 PRT of PRI2 loop is attempted.	Υ	Υ	Υ
MPLR32723		BERR0705 in timeoutService task	Υ	Υ	Υ
MPLR32726		EUROISDN DCH going down after DTA103, WITH ECTO (EXPLICIT CALL TRANSFER) FEATURE	Υ	Υ	Υ
MPLR32731		CALL REGISTER LOCKUP: MAINPM = 0C (.SPECIAL) AUXPM = 34 (.PRA_TCAP_CR)	Υ	Υ	Υ
MPLR32734		Concurrency Sustaining: Add the rpt (report log) record at midnight if lampaudit is turned off	Υ	Υ	Υ
MPLR32735	MPLR32619	MERGE: MPLR32735 Unable to make outgoing calls to some international numbers (rework of MPLR32605) + MPLR32619 "UNABLE TO MAKE OUTGOING CALLS TO SOME INTERNATIONAL NUMBERS" (7.6)	Y	Υ	Υ

Patch Id	Previous Version	Patch Title	C P L	P P 4	P
MPLR32736		BUG392 printed. Related to CDR.	Υ	Υ	Υ
MPLR32742		LD 43 EDD fails with EDD039 message after upgrade from Option 11C database with release prior X11 25.15 to CS1000E. *** Special Instructions, Please see External notes ***	Υ	Υ	Υ
MPLR32744		On 1140E KEM, adding a Label to 2nd page also replaces 1st page label. SPECIAL INSTRUCTIONS*** SEE EXTERNAL NOTES	Υ	Υ	Υ
MPLR32748		LD 97 CHG; SUPL; gets stuck at IPRO/IPR1. Failed to change information of empty IPMG associated with TN.	Υ	Υ	Υ
MPLR32753		BUG098 in SET_ROUTE_PTRS called from BCS_SNR	Υ	Υ	Υ
MPLR32758		BUG365, AUD019 conference and TDS CONF loops not releasing	Υ	Υ	Υ
MPLR32760		Command 5 execution result is NOK for numbers without national number access prefix.+ Message 1.4 does not contain the number of party C in the consultative call transfer scenario, AUD031 and AUD032 messages are printed during SORM operation	Y	Υ	Υ
MPLR32761		Empty/wrong pswv in ld22 and "upgmg stat x x" in ld143 outputs when MPLR32257 is installed.+ MPLR32257(Corruption of files or directories causes an IPMG failure to register.)	Υ	Y	Υ
MPLR32771		DATA RDUN fails during midnight routines *** NOTE: THIS PATCH IS APPLICABLE TO MACH TYPES: CPM, PP4 ONLY *** *** NOTE: Special Instructions. See NOTES section for details ***		Υ	Υ
MPLR32776		Can not complete conference if the AG is not ended at the agent who receives that conference call	Υ	Υ	Υ
MPLR32780		BRIL DSL units stay in MBSY state after MGC reboot.	Υ	Υ	Υ
MPLR32782		R7.6 Concurrency Sustaining: Diagnostic for AUD017/AUD018 call scenarios. ** using U_JUNK_WORDS[195-196] ** *** Special Instructions, Please see External notes ***	Υ	Υ	Υ
MPLR32796	MPLR32697	MERGE: MPLR32796 (Interzone bandwidth is updated incorrectly in the first local conference after coldstart CS on CORES.) + MPLR32697 (Bandwidth table is updated incorrectly, when blind transferring is performed with ELC enabled.)	Y	Y	Y
MPLR32797	MPLR32511	MERGE: MPLR32797 (PI: Changing the cause code when the call gets rejected due to FOPT + PI: Disable FOPT timer for Phantom TNs only.**ACT MPLR30868 activates PI functionality) + MPLR32511 (BRIL: BUG253 from COULD_BE_ORBIT : CFW_TRK_TO_TRK : ELIGIBLE_ENTRY : NARS_MODULE)	Υ	Υ	Υ
MPLR32801		Cannot configure remote call forward to external DN when ZBD is active	Υ	Υ	Υ
MPLR32809		"Remote Hold" displays on SIPL set which is selectively disconnected from conference.	Υ	Υ	Υ
MPLR32812		BUG6504 and BUG330 when attn releases a disconnected SIPL	Υ	Υ	Υ

Patch Id	Previous Version	Patch Title	C P L	P P 4	P
MPLR32818	MPLR32457 MPLR32847	MERGE: MPLR32818 (ERR132 is printed during consultative call transfer completed by SIPL client if CR_CLEAR_FLAG is set) + MPLR32847 (Blind Transfer by SIPLine DECT Set: no music on hold during call held and there is no speech path after the call is retrieved) + MPLR32457 (Call is dropped when SIPline blind transfers via SIP trunk to CS1K phone that CFB to Call Pilot)	Y	Y	Υ
MPLR32819		Unable to replace MGC loadware in Patch Manager if another loadware version is already installed.	Υ	Υ	Υ
MPLR32821		Command "stat tty" fails if previous command "stat xsm" is completed by typed "*"	Υ	Υ	Υ
MPLR32827		Route ID is displayed on MobX instead of caller ID	Υ	Υ	Υ
MPLR32828		SIGMA_CLID path uses RDL data space on 500 set to store DN of PHTN that it DCFW to. Similar to MPLR22891(ACT MPLR25180 activates PI functionality)	Y	Υ	Υ
MPLR32830		CallPilot (call pilot) port stuck after unknown conditions (status IDLE in LD 32 but it is not possible to terminate call on agent).	Υ	Υ	Υ
MPLR32831		SIPL Dect user doesn't hear ringback when calling by RPAX FFC	Υ	Υ	Υ
MPLR32832		BERR705 from procedure INTERCPT\$SET_ROUTE_CUST from procedure ESA_TERM	Υ	Υ	Υ
MPLR32836		ELC:Incorrect bandwidth reservation for conference local interzone call between SIPL set and TDM, Unistim sets using G.711	Υ	Υ	Υ
MPLR32844		SIP Line phone cannot retrieve the first call	Υ	Υ	Υ
MPLR32848		MEM303 printed when LD 10 CHG of 500 type sets when site has been upgraded from CS1000 6.0 sw. *** NOTE: SPECIAL INSTRUCTIONS. SEE NOTES SECTION FOR DETAILS ***	Y	Υ	Υ
MPLR32849		SORM: Sometimes message 7 result is 2 for command 5	Υ	Υ	Υ
MPLR32855		R7.6 Concurrency sustaining: AUD031 AUD032 messages are printed. Patch saves RAS for junctor set/clear ** SEE SPECIAL INSTRUCTIONS ** ** U_JUNK_WORDS[193-194] ** ** Applicable for CS1000M-MG (CPP4) only **		Υ	
MPLR32858		R7.6 Concurrency sustaining: Store the GF Error Log in the RPT log.	Υ	Υ	Υ
MPLR32863		Calls via PRI2 trunks are dropped after INI of Call Server	Υ	Υ	Υ
MPLR32865		UNIStim user hears short noise when the call is retrieved from MOH *******REFER TO SPECIAL INSTRUCTIONS************************************	Υ	Υ	Υ
MPLR32869		Unexpected AML messages when CH (Conference-Hot Line) key is in use on controlled set)	Υ	Υ	Υ
MPLR32872		Attendant auto dial (ADL) key causes FHW000 LOOP RESPONSE TIME OUT and BERR0300 BERR0600 *** NOTE: THIS PATCH IS APPLICABLE TO MACHINE TYPE: CPP4 ONLY ***		Υ	

Patch Id	Previous Version	Patch Title	C P L	P P 4	P
MPLR32883		UCM does NOT give a validation error when adding AAK key	Υ	Υ	Υ
MPLR32885		Wrong Name is sent in CT Complete message on transfer of R2MFC	Υ	Υ	Υ
MPLR32886		INI after BERR0705 in GF related code from CalledPartyNumberIEP22ConnectionOrientedPathRi: ONCallSetupP10HeaderInfoP22ConnectionOrientedPath	Υ	Υ	Υ
MPLR32889		Intermittently CLID (calling line ID) is missing on outgoing leg of call after a Thru-dial via callpilot menu	Υ	Υ	Υ
MPLR32904		AFS sessions stuck on CS (Security Domain and Backup Rules issues, SRPT316, SRPT4640)		Υ	Υ
MPLR32917		The /e partition is inaccesible because limit of opened files is reached.	Υ	Υ	Υ
MPLR32922		INI after BERR0705 from vcmSendFarCmd : vcm_rxNearWaitDsc_farOpenRx : vcmRxFSM : VCM_PROCESS_MSG : VCM_AUDIOCAP : : VCM_HDLR	Υ	Υ	Υ
MPLR32925	MPLR32669	MEM224 Caused by CallPilot transfer to 2009 set	Υ	Υ	Υ
MPLR32929		Call Park DN not being displayed when recalled to ATTN	Υ	Υ	Υ
MPLR32930		BUG253 1420 21 00000000 during camp-on	Υ	Υ	Υ
MPLR32937		ESA call via DPNSS cuts off after LD 44 audit. SRPT4653 AUD017 AUD018 PRINTED	Υ	Υ	Υ
MPLR32939		INI every 5 minutes (we are in an INI loop). WARM START IN PROGRESS - Reason 42 . BUG7060 SWD: HARDWARE WATCHDOG INTERRUPT EVENT . BUG7058 SWD: Swd watchdog timer expired on task tLS . SRPT0107 Hardware reset reason = Watchdog L1 . Patch disables semWatch	Υ	Υ	Υ
MPLR32942		Tpt commands "Addw" and "Addrw" don't work correctly. (Not applicable for VXELL)		Υ	Υ
MPLR32947		Call Server Time Drift. System time is not accurate. *** NOTE 1: For CPPM REFER TO SPECIAL INSTRUCTIONS. NOTE 2: NOT APPLICABLE FOR CPL. NOTE 3: PatchGlobalVar1, PatchGlobalVar2, PatchGlobalVar3 and patchStub00() ARE USED.***		Υ	Υ
MPLR32951		AUD335 printed from incoming (.CSL_GMTS = GET_MULTIPLE_TN) CSL messages	Υ	Υ	Υ
MPLR32952		MPLR31048 causes MCDN TRO problem in one transfer call scenario. **** Replaces PATCH MPLR31048 ****	Υ	Υ	Υ
MPLR32954		rptbug can be turned on for a wrong BUG/ERR number	Υ	Υ	Υ
MPLR32956		CS1K SIP phone can't hear custom ringback tone when TRO feature is activated	Υ	Υ	Υ
MPLR32957		Channel of TDM trunk is LCKO after performing disable then enable.	Υ	Υ	Υ

Patch Id	Previous Version	Patch Title	C P L	P P 4	P
MPLR32963	MPLR32331	When SIPL (SIPLINE) Set calls an unreachable number over EUROISDN trunk, ringbacktone is heard instead of announcement	Υ	Υ	Υ
MPLR32970		DECT call to local digital set is dropped after some time.	Υ	Υ	Υ
MPLR32971		INI after BERR705 in SEARCH_PUID called from UPD_PUID_TNLIST	Υ	Υ	Υ
MPLR32973		BUG105 and BUG4005 printed from abandoned incoming PRI call to a PCA	Υ	Υ	Υ
MPLR32975		LD 23: ACD; ALOG=YES CAUSES AGENTS NOT TO BE ABLE TO LOGIN	Υ	Υ	Υ
MPLR32988	MPLR32509	MERGE: MPLR32988 (MWI rejected when tandem from QSIG to MCDN) + MPLR32509 (Call Registers become locked-up with MAINPM = h.0C (.SPECIAL) and AUXPM = h.34 (.PRA_TCAP_CR). TCAP message call registers are not idled.)	Y	Y	Υ
MPLR32989		BUG420 (DPNSS) and related AUD014	Υ	Υ	Υ
MPLR32990		CLID is not shown on terminating set if originating and terminating sets are in different numzones	Υ	Υ	Υ
MPLR32997		Zones report (TFS0016) format was changed. The new format has dropped the fields INTRAZONE and INTERZONE.	Υ	Υ	Υ
MPLR33000		BUG865 printed when set with no key 0 receives VTRK call. Correct CLID in notify for ZBD (zone based dialing) sets with multiple different DN keys.	Υ	Υ	Υ
MPLR33008		ESA and Subnet LIS Configuration: force an emergency call through the fallback subnet 0.0.0.0 *** REFER TO SPECIAL INSTRUCTIONS ***	Υ	Υ	Υ
MPLR33014		BUG6034 and associated BUG5763 are printed for DPNSS Call Intermittently	Υ	Υ	Υ
MPLR33017		Transfer does not work from digital telephone to SIPL Phone on CS1000M.	Υ	Υ	Υ
MPLR33022		realloc will cause infinite recursion and many berr from stack overflow **** FOR CPL ONLY ****	Υ		
MPLR33023		Controlled load sharing: IP phone not registering back to home system when it's back online	Υ	Υ	Υ
MPLR33025		KEM keys are not printed out in Id20 in case of TYPE=ISET.	Υ	Υ	Υ
MPLR33027		No speech path at Orig SIPL(SIP LINE) phone in IP Conference call when 3 SIP Line parties use IPv6.	Υ	Υ	Υ
MPLR33028		BUG1500 from NUM_DN_MEMBERS::GET_CONNECTED_#::QCTN_HANDLER	Υ	Υ	Υ
MPLR33030		BUG5005 from NAS_DECODE : CHECK_FOR_NAS : PRA_DIALING : PRA_MAINPM : IN_SETUP_MSG :: ISDN :: PRA_HANDLER during MCDN/DPNSS call forward scenario	Υ	Υ	Υ
MPLR33031		Plug-in 232 does not work properly in some call scenarios	Υ	Υ	Υ

Patch Id	Previous Version	Patch Title	C P L	P P 4	Р
MPLR33032	MPLR33011	MERGE: MPLR33032 + MPLR33011 ACD Agents go NRD (NOT READY) because not enough bandwidth for call between Caller and ACD Agent (ACT MPLR26995 activates PI functionality)	Y	Υ	Υ
MPLR33033		BUG4244 from MINT_PKG_CLS : MINT_HANDLER : MARKBUSY	Υ	Υ	Υ
MPLR33034	MPLR32660	MPLR32660 for R7.6 affects LNR feature on external calls when ZDP is used.	Υ	Υ	Υ
MPLR33039		BUG489 when ATTN dials ACD queue from DEST	Υ	Υ	Υ
MPLR33041	MPLR32421	MERGE (FOR 7.65 RELEASE ONLY!): 'Not Ready - No Call Disconnect' request not working correctly on system with package 411 (.ABR_PACKAGE) enabled + MPLR32421 (7.65 Rel. PI PEP)	Υ	Υ	Υ
MPLR33045	MPLR32407 MPLR32646	MERGE: MPLR33045(German toll free queuing support to comply with latest TKG Telecom requirements. Broadcasting issue.) + MPLR32982(GRIP 11220 - AC1/AC2 over AML, in case of ZBD(to activate functionality MPLR32984 is needed) + MPLR32407 (German toll free queuing support to comply with latest TKG Telecom requirements) + MPL32646 (MERGE: MPLR32646(PI: MPLR32415 issue - AACC Agent display issue for local calls.) + MPLR32415(PI: CLID on AACC acquired phone is increased from 16 up to 20 digits when DAPC feature is used.) To activate functionality MPLR28837 is required. )); MPLR31699 is PI enabler for MPLR33045.	Y		Y
MPLR33051		MERGE: MPLR32916 (AUD130 involving use of IPSET and Blind Transfer operation over SIP VTRK) + MPLR32964 (AUD130 printed with IPSET making calls out over SIP (vTRK) that are redirected via RLI to go out PRI trunks. The VITN_RX_ONLY bit is not being reset to NIL properly)	Y	Υ	Y
MPLR33053		No speechpath for QSIG to PRI NI2 trunk with manual AUTH code configured *** NOTE: SPECIAL INSTRUCTIONS (which ONLY apply for R7.5, not for 7.6): Make sure that mplr32866 is in service ***	Y	Υ	Y
MPLR33069	MPLR32529	MERGE: MPLR33069(IP set idle set display not fully restored after displaying RNPG call alert information) + MPLR32529 (Call Alert does not work correctly after Call Transfer).	Υ	Υ	Y
MPLR33072	MPLR33045	MERGE: MPLR33072 (AUD031, AUD032 related to IVR-TAT scenario are printed frequently ** Not applicable to CPPM and CPPL platforms ** ) + R7.5 MPLR32192 (TAT Not Working on SIP trunks When ACD Agent Answers After RAN Connects), R7.6 MPLR33045 (MERGE with MPLR33045 (German toll free queuing support to comply with latest TKG Telecom requirements. Broadcasting issue)		Υ	
MPLR33081		PI: SYSTEM SLOW-DOWN / FREEZE or BERR705 due to facility message ping-pong (ACT MPLR15748 activates PI functionality)	Υ	Υ	Υ
MPLR33083		PI: RFC2833:Autodial fails to produce DTMF tones from an IP set over SIP Trunks (to activate functionality MPLR32899 is needed).	Υ	Υ	Υ
MPLR33084	MPLR32578	MERGE: MPLR33084 (Media Services Zone information is incorrect and/or BUG798) + MPLR32578 (SIPL (SIPLINE) telset displays "Remote hold" when far-end user answers the call)	Y	Υ	Υ
MPLR33090		Displayed Digits getting truncated beyond 16	Υ	Υ	Υ

Patch Id	Previous Version	Patch Title	C P L	P P 4	C P M
MPLR33099		NHC (No hold conference) calls cause BUG266 and key lockup after initial BUG266	Υ	Υ	Υ
MPLR33117	MPLR32840	MERGE: MPLR33117 "VNR feature stopped working for Call Forward All Calls and Call Forward No Answer from ZBD based phones" + MPLR32840(ACD Agent Observe fails with ZBD enabled) + MPLR32694 (BUG1500 is printed on the TTY from procedure INVALID_DNTRANS)	Y	Υ	Υ
MPLR33119	MPLR32980	MERGE: MPLR33119 (SIP LINE call cut off while transfering from attendant over vtrk with NAS enabled) + {for 7.6 sw}: MPLR32980 (No Speechpath when Attendant Connects a Parked Call to a SIP line over Virtual Trunk with TAT Enabled + MPLR30657:(Unable to use agent greeting when call is NodeA -> Attendant-on-NodeB -> ACD-agent-on-NodeA) {for 7.5 sw} MPLR30898 (Customer is not able to forward their phones to some external numbers) + MPLR30215{(BUG266 and call cutoff when an ATTN transfers a NAS call to Mobx) + Merge of MPLR28208(NO-WAY SPEECHPATH on NAS anti tromboning (removing VTRKs) in PRI->VTRK->ATTN->VTRK->IPset connections) + MPLR30215 (BUG266 and call cutoff when an ATTN transfers a NAS call to Mobx)+ Merge of MPLR28208(NO-WAY SPEECHPATH on NAS anti tromboning (removing VTRKs) in PRI->VTRK->ATTN->VTRK->IPset connections)) *** {for 7.5 sw only} SPECIAL INSTRUCTIONS, PLEASE SEE NOTES SECTION FOR DETAILS ***	Y	Υ	Υ
MPLR33127		2050 and Active Call Failover time. ACF timer should start for PRI/DTI/PRI2/DTI2 trunks in the case of network issues.	Υ	Υ	Υ
MPLR33129	MPLR32778	MERGE: One-way speechpath when calling from SIPL DECT (SIP LINE DECT) + MPLR32778 (No speechpath when Call transferred from Site A to Site B to Site C and back to Site A.)	Υ	Y	Y
MPLR33131		Incoming DASS call with SIC 18 does NOT seize an outgoing SL1/SIP trunk	Υ	Υ	Υ
MPLR33132		BUG5051 printed multiple times, then BUG288 and BUG681 printed	Υ	Υ	Υ
MPLR33137	MPLR32569	MERGE: MPLR33137 "On Hold Indicator for 1110 / 1210 IP sets" (MPLR32282 is required to activate PI functionality) + MPLR32569 "AAOA: Stuck call leg on AAAD in a transfer/conference scenario with 500 agent."	Υ	Υ	Υ
MPLR33138		GF debug level is 2, then call via GF trunks cause BERR705. ***SEE SPECIAL INSTRUCTIONS***	Υ	Υ	Υ
MPLR33141		ld 80 TRAC shows busy for all VGW channels in case of ROUTE 0 configured	Υ	Υ	Υ
MPLR33145		BUG5002 printed frequently	Υ	Υ	Υ
MPLR33146		Enabling SNMP for Off Hook Alarm Security (OHAS)	Υ	Υ	Υ
MPLR33147		CPND NAME NOT DISPLAYED ON SET, AFTER QSIG TRANSFER DUE TO QCTN UPDATE HANDLED BY CS1000 INCORRECTLY	Υ	Υ	Υ
MPLR33152		CS INI with BERR0705 When Changing CLS MSBT/MSNV/MSAW for Unistim or SIPL Set	Y	Υ	Y

Patch Id	Previous Version	Patch Title	C P L	P P 4	P
MPLR33157	MPLR32603	MERGE: MPLR33157 (BUG4006, BUG359, AUD017/AUD018 messages are printed while a CFNA call from 500 set to an external busy caller via EURO ISDN is re-ringed back to the same 500 set) + MPLR32603 (PI: SECOND LEVEL FORWARD NO ANSWER NOT WORKING WITH FORWARD ALL CALLS. Install MPLR24290 to activate PI functionality)	Υ	Υ	Υ
MPLR33159		Unable to synchronize CS clock from SS by NTP with secure mode *** NOTE: Not applicable for CPL ***		Υ	Υ
MPLR33162		SYS4439 is printed on sysload with a corrupted database ** REFER TO SPECIAL INSTRUCTIONS **	Υ	Υ	Υ
MPLR33172		SIP DECT HOT key stuck when XFER to UIPE Invalid/BUSY UIPE DN	Υ	Υ	Υ
MPLR33174		MEM0214 Memory corruption during memory dump after upgrade from 5.0 to 7.6.	Υ	Υ	Υ
MPLR33175		Incorrect bandwidth calculation in case of SIPL-SIPL call.	Υ	Υ	Υ
MPLR33180		MWI is not transferred from DPNSS to Virtual trunks if GR "controlled load sharing" feature is used.	Υ	Υ	Υ
MPLR33182		AAAD gets stuck in the call when ATTN drops the consultation using RIs Source key	Υ	Υ	Υ
MPLR33185		SIP Line user gets disconnected after call pick-up DISA call	Υ	Υ	Υ
MPLR33186		TMDI is not enabled automatically after network failure	Υ	Υ	Υ
MPLR33187		BUG864 and call drops with Zone base dialing enable	Υ	Υ	Υ
MPLR33191	MPLR32890 MPLR32941	MERGE: PI: Provide Media Security for analog sets over SIP VTRK + (MPLR32890 RTP only between Sigma and analog phone even if SRTP is offered ) + (MPLR32941 SIPL (SIPLINE) telset displays "Remote hold" when pressing transfer key.)	Υ	Υ	Υ
MPLR33194		PI: Allow DRC key control TIE route ** contains inactive PI functionality, MPLR23646 is the PI enabler **	Υ	Υ	Υ
MPLR33202		ELC (Extended Local Calls): The call is local in some ELC TDM (500) sets	Υ	Υ	Υ
MPLR33206		BUG1366 and PRI channel hung in tandem call scenario	Υ	Υ	Υ
MPLR33210		UDT card reboots due to receiving phone SSD message	Υ	Υ	Υ
MPLR33213	MPLR32738	MERGE: MPLR33213(Zone based routing does not work for DCS (DECT) sets + ERR648 message is continuously printed on CS TTY) + MPLR32738(ZDP prefix is not inserted in dialed number for DECT set with call forward activated) + MPLR32532(DECT set is not working after call if call forward is activated)	Υ	Υ	Υ
MPLR33223		PI: Adding an ability to change value of T304 timer. To activate PI functionality MPLR33225 is required ***REFER TO SPECIAL INSTRUCTIONS***	Υ	Υ	Υ

Patch Id	Previous Version	Patch Title	C P L	P P 4	C P M
MPLR33226		BUG1365 from BUG_PARMS : STATE_STD_BUGMSG : U10_I_TO : PRA_T2_TIMEOUT :: UIPE_CC	Υ	Υ	Υ
MPLR33228		Small memory leak on inactive side. *** NOTE: THIS PATCH IS APPLICABLE TO MACH TYPE: CPPM ONLY ***			Υ
MPLR33229	MPLR33015	MERGE: MPLR33229(Speech patch is cut off after pager sound when an external call is established with DECT set) + MPLR33015(Modem call failing when tandeming through tertiary CS1K via PRI) + MPLR32478(Parties in a monitored call cannot hear from the supervisor when MAS IP Conference is used)	Y	Υ	Y
MPLR33231	MPLR32656	MERGE: IP Conference loops are not registered on Call Server but active on Signalling Server. (+ MPLR33080 MERGE: After Turn off/Turn On Server IP Media Services do not work because MSC applications are unregistered on Call Server (+ MPLR32656 Unable to make Media Gateway Conference when Local MAS and Proxy Servers of IP Media Services are down.))  ***REFER TO SPECIAL INFORMATION***	Υ	Υ	Υ
MPLR33232	MPLR33215	MERGE MPLR33232(PI: AAEP issues (PROGRESS / ALERT and EuroISDN). MPLR32508 is a PI enabler to activate the patch functionality.) + MPLR33215(Inconsistent handling of NPI and TON causes loss of CLID on tandem call)	Υ	Υ	Y
MPLR33235		Request CS1000 to insert a delay before presenting Camp-On recall to SIP DECT	Υ	Υ	Υ
MPLR33237		Memory leaks from the protected heap during Warm starts.	Υ	Υ	Υ
MPLR33238		UDT card restarts due to attendant slow answer recall	Υ	Υ	Υ
MPLR33239		Bandwidth leak due to timing race during MCDN TAT triggered by SIP REFER	Υ	Υ	Υ
MPLR33241	MPLR32993	MERGE: CS1000 phone does not display the name of CM caller until the call is answered + MPLR32993 Incorrect CLID (trunk ACOD instead of originator's number) on terminating set after blind transfer over ISDN trunk	Y	Υ	Y
MPLR33257		INI after BERR0705 from IOWRITE : EES_CONFERENCE *** NOTE: THIS PATCH PRINTS: ERR3257 WHEN IT AVOIDS THE INI ***	Υ	Υ	Υ
MPLR33261		DCH monitoring safety tools not working properly. This problem could lead to a system running out of call registers for call processing.	Υ	Υ	Υ
MPLR33264		SMG->CPMGS->ALTERNATE CALL SERVER 2->SRPT315 CS is not able to recover HeartBeat link with MGC Cabinet	Υ	Υ	Υ
MPLR33269		Microsoft Office Communicator client is stuck after Call Transfer	Υ	Υ	Υ
MPLR33270	MPLR33075	Increase SDP size - Twinned Flare 1.2 answering AAC dial out call does not get video *** MPLR33270 replaces MPLR33075 ***	Υ	Υ	Υ
MPLR33272		BERR0705 from procedure WindPrioritySet when taking accountDb semaphore MGC,CPPM and CPPIV only		Υ	Υ
MPLR33277		Bandwidth is not released properly when running CDN traffic	Υ	Υ	Υ

Patch Id	Previous Version	Patch Title	C P L	P P 4	Р
MPLR33278		PI: Emergency Services number manipulation (To activate functionality MPLR28883 is needed)*** NOTE: ALSO KNOWN AS ASCOM PATCH 534 *** Patch Is Site Specific to TID = 060002359 ***	Y	Y	Υ
MPLR33287		M3905 ACD set with handset and headset plugged in buzzes with RNGI CLS	Υ	Υ	Υ
MPLR33288		Unexpected value in AML ICC message as ORIGINALLY DIALLED DN	Υ	Υ	Υ
MPLR33290		PI:Park Recall display is not working correctly for ACD agents with Call Force (To activate functionality MPLR33292 is needed)	Υ	Υ	Υ
MPLR33303		QSIG ping-pong of CT_UPDATE_OP messages *** NOTE: PATCH uses spare bits in the Message Call register ***	Υ	Υ	Υ
MPLR33304		There is no speech path when SIP DECT user make blind transfer to twinned SIP Line Sets the second time	Υ	Υ	Υ
MPLR33305		DCH corruption after d-channel change in ld 17	Υ	Υ	Υ
MPLR33312		RLC Alarm Buffer overwrite causes MEM0218 (MEM218) and possibly other memory corruption *** NOTE: THIS PATCH introduces new ERR code ERR3312 ***	Y	Υ	Υ
MPLR33316		INI after BERR0705 from ACD_OB_DISC	Υ	Υ	Υ
MPLR33317		INI after BERR0705 from SETUP_SC_INFO_T: DETERMINE_SPD_T:: TCM_OUTPUT_MSG when Phone configured with a SCL list that is 4 less than MSCL	Y	Y	Υ
MPLR33318		NHC (No Hold Conference) fails over digital trunks	Υ	Υ	Υ
MPLR33321	MPLR32888	MPLR33321 CDR data are different between TTY ouput and dba.cdr file. NOTE**: the patch replaces MPLR32888.	Υ	Υ	Υ
MPLR33324		Attendant Console can hear Music On Hold when Set Based Music is configured	Υ	Υ	Υ
MPLR33327		Network restrictions are not applied for OCS call as described in the NTP	Υ	Υ	Υ
MPLR33328		MPLR32014 DIAG002 and DIAG004 messages are printed every audit loop detecting issues in Group Hunt data	Υ	Υ	Υ
MPLR33332	MPLR32517	MERGE: MPLR33332 (Not Ready with No call disconnect causes Missing USM onhook Message and wrong call Id in later USM onhook message) + MPLR32517 (AAOA/AAAD: Go NotReady (NRD) when active on CDN call, agent stuck active on Real Time Display)	Υ	Υ	Υ
MPLR33333	MPLR33065	ACD Agent can't log out (logout) after virtual office (VO) logout operation when patch MPLR33065 (introduced in SP5) is in-service. AUD021 AUD028 BUG4001 BUG4005 AUD017 AUD018 AUD005 AUD393 AUD033 PRINTED	Y	Y	Υ

Patch Id	Previous Version	Patch Title	C P L	P P 4	Р
MPLR33335	MPLR33192	MERGE: MPLR33335 (NO Speech path when third party calls via SIP trunks to PCAs which share the same SCR DN and extend to different own SIP Line UEXTs) + MPLR33313 (SIPL (2nd DN as Unistim's MCR) is failed to join IPCONF and bandwidth/trunk usage is not released) + MPLR33192 (Unicode Name Display (UND) does not display correct names in some cases) + MPLR33006 (No-Way or One-way Speechpath when Calling over Virtual/PRI Trunk or Locally to MADN PCAs pointing to SIPL, IPL and TDM sets) + MPLR32931 (No Speechpath for Incoming Call to MADN of Unistim IP Set & SIPL When Unistim Set Answers) + MPLR32687 (BUG253 message is printed on TTY) + MPLR32581 (ONE-WAY SPEECHPATH for PSTN Calls To SIPL (SIP Line) or Mixture with Other Set Types Via PCA)	Y	Y	Y
MPLR33336	MPLR33184	MERGE: MPLR33336 (FNA timing issues and FNA immediately when it should wait before FNA with Unregistered IP Phone Notification & Treatment feature) + MPLR33184 (Unregistered IP Phone Notification & Treatment option does	Υ	Y	Υ
MPLR33338		MERGE: MPLR33338, MPLR33298 (AUD0021, AUD0028 and BUG0195 are shown on TTY).	Υ	Υ	Υ
MPLR33339		CS1000 X21 07.65Q Installation Utility: Increase patch handles to 2500. ** Not applicable for CPPL platform **		Υ	Υ
MPLR33341		PI: Trunk calls from numbers with certain initial patterns should be blocked (Enabler is MPLR33309)	Υ	Υ	Υ
MPLR33342		MERGE: MPLR33342, MPLR33254 (MDP ISSP should support more than 1000 patches)	Υ	Υ	Υ
MPLR33346		PI: ELAN DROP due to: No keep alive messages between MGC and Call Server on port 15000. (To activate functionality MPLR26557 is needed) *** NOTE: FOR CS1000 7.6 SW ONLY: PI PATCH MPLR26557 is the enabler for GEN PATCH MPLR33346 ***	Y	Υ	Y
MPLR33349		SFTP servers should be supported as destinations for Call Server backups *** PLEASE REFER TO EXTERNAL NOTES FOR SPECIAL INSTRUCTIONS *** THE PATCH IS NOT APPLICABLE TO CPL ***		Υ	Υ
MPLR33350		It is impossible to configure SFTP backup rule at Id 117 *** USE patchSpareWords 1000-1015 *** PLEASE REFER TO EXTERNAL NOTES FOR SPECIAL INSTRUCTIONS *** THE PATCH IS NOT APPLICABLE TO CPL ***		Υ	Υ
MPLR33352	MPLR32467	MERGE: MPLR33352 (Problem with service messages during DCH restart on ESS interface) + MPLR32467 with corrections (Service messages for UIPE are both: - Not sent (ALERT sent instead) and result in BUG253, BUG5501 and BUG5570 Fail to handle far end acknowledge timeout failures.)	Υ	Υ	Υ
MPLR33359		INI after BERR705 in tSL1 from RFC_SL1_CONTROL	Υ	Υ	Υ
MPLR33361		Recall to VOLO set is blocked when Tenant is configured on system	Υ	Υ	Υ
MPLR33365		1140 callers list is not logging successful calls, only missed calls	Υ	Υ	Υ
MPLR33368		SM corruption and BERR in tSwoTask during gswo when using DBA tool in SFTP mode	Υ	Υ	Υ

Patch Id	Previous Version	Patch Title	C P L	P P 4	P
MPLR33373		BERR705 in task ipbMoni	Υ	Υ	Υ
MPLR33381	MPLR32523 MPLR32626	MERGE: MPLR33381 "AUD017 AUD018 AUD019, AUD126 messages are printed out using Media CLID functionality ** REFER TO SPECIAL INSTRUCTIONS**" + MPLR32523 "VTRKs appear stuck in LCKO/MBSY *** NOTE: THIS PATCH PRINTS: DIAG2523 : 32523 ***" + MPLR32626 "Not all CLID digits are displayed with plugin 226 *** NOTE: SPECIAL INSTRUCTIONS. SEE NOTES SECTION ***"	Υ	Υ	Υ
MPLR33382		MERGE: MPLR33382 "Facility message loop is printed continuously with MIK number for a local loop scenario" + MPLR33004 "SIP MCDN Facility message ping-pong due to incorrect configuration leads to system slow-down/freeze" *** NOTE 1: THIS PATCH PRINTS "PRI272: DESTINATION DN" WHEN IT AVOIDS THE PING-PONG *** *** NOTE 2: REFER TO SPECIAL INSTRUCTIONS ***	Υ	Υ	Υ
MPLR33390		The inactive CPU in an HA (High Availability: Dual CPU) system reboots every 19.5 days due to HWD events *** NOTE 1: THIS PATCH IS "NOT" APPLICABLE TO MACHINE TYPES: CPP4 AND CPL *** *** NOTE 2: PLEASE REFER TO EXTERNAL NOTES FOR SPECIAL INSTRUCTIONS ***			Υ
MPLR33392		Warn an user in case of use of mdp install when a deplist is already installed. *** THE PATCH IS NOT APPLICABLE TO CPL *** THE PATCH USES WORDS 960-976 FROM patchSpareWords[] *** PLEASE REFER EXTERNAL NOTES FOR ADDITIONAL INFO ***		Υ	Υ
MPLR33394	MPLR32602	PI: NO MAILBOX REACHED WHEN CALL TO MOBILE PHONE IS REDIRECTED TO VOICE MAIL REPLACES OBS MPLR32602 ACT MPLR13860 activates PI functionality	Υ	Υ	Υ
MPLR33397		MEM309 printed during BRI operations	Y	Υ	Υ
MPLR33400		BUG253 is printed on Slow Answer Attendant Recall	Υ	Υ	Υ
MPLR33408		From SIPL set, cannot dial a short DN starting from ZBD zone prefix	Υ	Υ	Υ
MPLR33409		UBT (UNION BREAK TIME) is not accurate. EXAMPLE: CS1000 sends AGENT IDLE within 3 sec when customer configures UBT as 4 Sec *** NOTE: SPECIAL INSTRUCTIONS. SEE NOTES SECTION FOR DETAILS ***	Υ	Υ	Υ
MPLR33410		Missing AML messages after re-presenting of held IDN call on analog phone	Υ	Υ	Υ
MPLR33411	MPLR32558 MPLR32606	MERGE: MPLR33411 (No ringback after AACC reroutes the call back to sipline set) + MPLR32558 (When XLST setting points to pretranslation/SCL that blocks certain prefixes, if the SIPL route ACOD prefix matches, calls to SIPL will be blocked.) + MPLR32606 (SIPL MSAW failed to blind transfer the call to another SIPL MSAW)	Y	Υ	Υ
MPLR33412		DCH monitor: storing to dch.log doesn't work after SCPU	Υ	Υ	Υ

Patch Id	Previous Version	Patch Title	C P L	P P 4	C P M
MPLR33414	MPLR33055	MERGE: MPLR33414 (INI after BERR705 in tSL1 from CMD_DISPLAY_NAME) + MPLR33055 (Set shows double CLID once the DTI2-R2MFC call is answered) + MPLR33050 (PI: SCCS: MCA DOES NOT SHOW CORRECT CLID DISPLAY (ACT MPLR16474 activates PI functionality)) + MPLR32894 (No caller info displayed on set display after answer of a non-prime DN Key) + MPLR32448 (M3904 call log not saved for upper keys answered by handset with IRA class)	Υ	Υ	Υ
MPLR33418		Unexpected exit from LD 117 causes unexpected INI if next login uses LD 86 or 90 *** NOTE: PATCH introduces new error code ESN418. Patch uses U_JUNK_WORDS[181] ***	Y	Υ	Υ
MPLR33424	MPLR33094	Prevent false alarms from MPLR33094 and improve the patch audit. *** IN CASE OF CPL PLEASE REFER EXTERNAL NOTES FOR SPECIAL INSTRUCTIONS *** THIS PATCH USES PatchGlobalVar4, PatchGlobalVar21 and patchStub06() ***	Y	Υ	Υ
MPLR33427		BUG749 printed on attendant scenario involving ROA	Υ	Υ	Υ
MPLR33433		BUG253 flood when Network Authorization Code (NAUT) tone is provided	Y	Υ	Υ
MPLR33434		Call Failure, AUD031, and AUD126 caused by selecting a DSP that has no timeslots available	Υ	Υ	Υ
MPLR33438		Failures to match on conference loops leads to BUG6504 and BUG330	Y	Υ	Υ
MPLR33444		BUG1009/BUG9157 for call diversion scenario	Υ	Υ	Υ
MPLR33447		A leak of file descriptors is observed in case of some corruptions of rpt files.	Υ	Υ	Υ
MPLR33451	MPLR32794	MERGE: MPLR33451 (SIP PSTN rejects the call after being routed by Contact Center) + MPLR32794 (Redirection number does not contain the first digit for forwarded call)	Y	Υ	Υ
MPLR33452		BUG5774 on trunk to trunk calls when calling DCH has more than 511 calls active	Y	Υ	Υ
MPLR33453	MPLR32290	PRT DNIP of DN gives improper result ** new version of MPLR32290 **	Υ	Υ	Υ
MPLR33455		BUG6507 is printed when 3260 IP Attendant parks a call	Υ	Υ	Υ
MPLR33462		All PRI trunks were DSBL after cutover ** NOTE: patch uses global patch procedure PATCH_5 ** NOTE: The patch is applicable for HA machines PP4 and CPM **		Υ	Υ
MPLR33468	MPLR33134	MERGE: MPLR33468(REPLACES MPLR33364: Incorrect codec selected after call transferring for the 2nd time in MO-BO scenario) + MPLR33134 (Incoming PSTN faxes on Call Pilot through Virtual Trunk does not work) + MPLR32712 (Call drops after SIPL (SIP LINE) Set complete blind transfer to AACC CDN) + MPLR32586 (IP Media services are experiencing jitter/choppyness when calling to the ACD queue through AAM) + MPLR32536 (Low CCR when running traffic to CDN with agents answer and no answer) *** SEE SPECIAL HANDLING INSTRUCTIONS ***	Υ	Y	Υ

Patch Id	Previous Version	Patch Title	C P L	P P 4	Р
MPLR33481	MPLR32773 MPLR33306	MERGE: MPLR33481 (Rework of MPLR33439(ESA enhanced routing does not reroute the call for MALT/QALT causes)) + MPLR33306(Speechpath issue with calls that fails SIP and go out TDM) + MPLR32773 (R7.6 Concurrency Sustaining: Diagnostic for BUG266 call scenarios) + MPLR32716 (BUG759 and BUG467 messages printed frequently) **Note 1: The functionality can be activated by ACT MPLR33465 **Note 2: It works only with SL1, QSIG, EURO trunks. **Note 3: SPECIAL INSTRUCTIONS. **Note 4: Using U_JUNK_WORDS[192], U_JUNK_WORDS[197-198].	Υ	Υ	Υ
MPLR33482		TOOL: Audit for DN_GHBLK corruptions. ** Note 1: uses U_JUNK_WORDS[190-191]. Note 2: Special Instructions. See notes section for details. **	Υ	Υ	Υ
MPLR33485		Problem with German CPND names with QSIG to MCDN ***Note 1: Put p32730_1(PI enabler) in service to activate the functionality.	Υ	Υ	Υ
MPLR33488		MWI problem on SIP registration refresh.	Υ	Υ	Υ
MPLR33494	MPLR32733	MERGE: MPLR33494 (new tool "AUDIT FOR DN_GHBLK CORRUPTIONS") + MPLR32733 (R7.6 Concurrency Sustaining: TOOL MANAGEMENT) ** using U_JUNK_WORDS[199] **	Υ	Υ	Υ
MPLR33495	MPLR32992	MERGE: MPLR33495 (AUD017, AUD018, AUD197, AUD097, BUG342 and BUG6504 printed out when DISA call is routed to attendant) + MPLR32992 (BUG253 appears on the TTY) + MPLR32945 (BUG4001, BUG4005 prints out when DTMF send too fast)	Υ	Υ	Υ
MPLR33497		Trace in LD80 displays wrong far end media endpoint IP of CM phone	Υ	Υ	Υ
MPLR33501	MPLR33224	MERGE: MPLR33501 (System freeze occur during transfer scenario between MO and BO) + MPLR33224 (No speech path on some IP sets after consultative transfer is completed over SIP trunk. ALSO FIXES MPLR32538 ISSUE) + MPLR32550 (Can not make call after enabling ZALT and changing bandwidth of BMG zone (in MO) with type of BO-MGC's zone is MO) ****REFER TO EXTERNAL NOTES ***	Y	Y	Υ
MPLR33507	MPLR33252	MERGE: MPLR33507(One-way speech issue on transfered call through H323) + MPLR33503(One-way speech issue on NSBR call through H323 MCDN (REWORK OF MPLR33252 & MPLR33057: No speech path when TDM set retrieves a call over H323 trunks from HOLD due to codec mismatch))	Y	Y	Y
MPLR33508		Getting SRPT4653 when attendant presses RLS DST key in conference call.	Υ	Υ	Υ
MPLR33509		INI 1B from NARS LTER with Zone Based Dialing **** PEP prints DIAG423 when potential INI is averted ****	Υ	Υ	Υ
MPLR33517		SIPLine Phone fails when it retrieves a parked call using CPAC FFC	Υ	Υ	Υ
MPLR33520		TRUNKATED SUBADDRESS IE WHEN TANDEMING QSIG TO MCDN *** NOTE: ALSO KNOWN AS ASCOM PATCH 583 *** *** TO ACTIVATE PI PATCH FUNCTIONALITY MPLR21717 IS NEEDED ***	Υ	Υ	Υ
MPLR33523		BRI Trunk BUG5501 generated on outgoing calls	Υ	Υ	Υ

Patch Id	Previous Version	Patch Title	C P L	P P 4	Р
MPLR33526		CS1000 AML Unringing message is not presented to AACC side.	Υ	Υ	Υ
MPLR33528	MPLR32552	MERGE: AML Ringing message is missed in MultiDN Recording setup (not AST) + MPLR32552	Υ	Υ	Υ
MPLR33529		The system time is incorrect on CoRes Call Server after a time zone change *** THIS PATCH IS SPECIFIC FOR THE CPL PLATFORM *** THIS PATCH USES PatchGlobalVar92 and PatchGlobalVar93 ***	Υ		
MPLR33539		A timestamp in a time sync message from Call Server to AACC/Call Pilot has 2s accuracy only	Υ	Υ	Υ
MPLR33540	MPLR32589	MERGE: MPLR33540 (One way speech path when SIPL initiates IP CONF 4 parties with Media Secure enabled) + MPLR32589 (Add VCM traces for Media Services in callLog tool) + MPLR32543 (There is one-way speech path when MOB-X Set does conference with TDM Set over Virtual Trunk.)	Υ	Y	Υ
MPLR33541		AUD112 is printed	Υ	Υ	Υ
MPLR33543		SIPL (SIP LINE): The key icon is not updated on a SIPLine Phone that is in MADN group. SIPLine cannot pick up call - BLA feature doesn't work	Υ	Υ	Υ
MPLR33551	MPLR33163	MERGE: MPLR33163 (MERGE: MPLR33163 Phantom Network call not cleared in AACC Application RTD + MPLR33101 OCS non-MARP TN acquired by ACR through AMLFE doesn't indicate about active call + MPLR32673 Cannot answer the second call and BUG330 is displayed when Call Waiting is enabled on SIPDect user) + AML USM messages are not sent to CallRecording application correctly (AMLFE setup) *** REFER TO SPECIAL INSTRUCTIONS ***	Υ	Y	Y
MPLR33555	MPLR32923	MERGE: MPLR33555 (AUD126 leads to BUG6507 XMI000 and Crosstalk) + MPLR32923 (AUD126 BUG359 and Possible Crosstalk When TDM calls SIPL (SIP LINE) via CallPilot. Also possible ONE-WAY SPEECHPATH)	Υ	Y	Y
MPLR33560		Whenever a single dch is disabled it brings down the whole msdl card and the PRI Gateway as 2 DCH Cards	Υ	Υ	Υ
MPLR33561		Calls made internally and then transferred across H323 and SIP. There is not the speechpath	Υ	Υ	Υ
MPLR33563		SIPL (SIP LINE) set, service change causes set to be stuck in MBSY state	Υ	Υ	Υ
MPLR33572	MPLR33426 MPLR33285	MERGE: MPLR33572 (AUD112 is printed ) + MPLR33426 (Impossible to change a DN key or remove the corresponding telephone) + MPLR33315 (A SIP Line set is not ringing when the second call to PLDN) + MPLR33285 (INI code C (INI000 0000000c) when LD 44 audit idles a Call Register with MAINPM = .DIALING in the PLDN queue ) + MPLR32014 (GROUP HUNT / PLDN: Check for anomalies between GHT list and members to the associated telsets group hunt data block. AUD112 ERR8985 seen as symptoms of this problem.)	Υ	Υ	Y
MPLR33573	MPLR32700	MERGE: MPLR33573 (SL1 task starvation occurs when using pdt debug commands via MGC remote tty) + MPLR32700 (BUG7058 SWD: Swd watchdog timer expired on task tSL1 after printing data in pdt mode of Cores CS; VXELL only)	Υ	Υ	Y
MPLR33574		INI after BERR0705 from GF_UTILITY. Related to PRI / QSIG.	Υ	Υ	Υ

Patch Id	Previous Version	Patch Title	C P L	P P 4	P
MPLR33579	MPLR32874	MERGE: MPLR33579(Adding an ability to restrict DTMF generation for 2050 IP agent being in conference call. To activate PI functionality MPLR33578 is required) + MPLR32874(LNR doesn't work for some NARS calls with ZBD enabled)	Υ	Y	Y
MPLR33585		INI code C (INI000 0000000c) from TRAP :: SICE_RECOVERY : REMOVE : IDLECR : IDLE_CR : FXS_CONF_PORT : FXS_HANDLER due to incorrect CR linkage	Υ	Υ	Υ
MPLR33586		PI: ACD call force tone should have flexible length. Patch adds new prompt FTON to LD 23 *** TO ACTIVATE PATCH FUNCTIONALITY ACT PATCH MPLR29162 REQUIRED ***	Υ	Υ	Y
MPLR33587		SECURITY: Required to eliminate VxWorks RPC security vulnerability (CVE-2015-7599)	Υ	Υ	Υ
MPLR33596		Many MEM221 due to abuse of the CACFAREND structure	Υ	Υ	Υ
MPLR33597		During consultative transfer for SIPL set with MCR DN configured as 2nd DN bandwidth usage is updated incorrectly, BUG330, BUG387.	Υ	Υ	Υ
MPLR33598		PERIODICAL CDR-TICKET FOR THE HOSPITAL APPLICATION *** NOTE: ALSO KNOWN AS ASCOM PATCH 206 *** Use MPLR31224 to activate the functionality.	Y	Y	Υ
MPLR33606	MPLR33322	MERGE: MPLR33606 IPRAN resources stop working + MPLR33322 (DISA call is not routed to attendant after IPRAN)	Υ	Υ	Υ
MPLR33614		INI after BERR0705(Exception 14 in Task "tSL1") in procedure CALLED_PARTY_#.	Υ	Υ	Υ
MPLR33616		When calls come in over SIP trunks while a DN apperance in a down MG loop is off line. Call fails.	Υ	Υ	Υ
MPLR33617		Progress IE with unexpected content causes tandem QSIG/EuroISDN > MCDN call to fail	Υ	Υ	Y
MPLR33619	MPLR33037	MERGE: Wrong CLID sent to PSTN, from SIPLine set, after FDN activation + MPLR33037(There is no calling number in D-channel setup message) + MPLR32488(Wrong CLID sent out with TENANT and MobilX)	Y	Υ	Y
MPLR33621		Mobile extensions (MOBX) with incorrect or left over MOBX_VGWPRITN are able to cause crosstalk	Υ	Υ	Υ
MPLR33623		BUG1009 printed frequently. Related to QSIG GF. Example: % BUG1009 : 7 234 (OUTG_MSG_EXHAUSTED)	Υ	Υ	Y
MPLR33624		No speechpath and SIPL UEXT is blocked when SIPL dials restricted DN and the call is intercepted to ATTN. Also BUG389, BUG241 and ERR135.	Υ	Υ	Υ
MPLR33625		SIP Line In-band Progress message with a Cause IE creates repetitive calls	Υ	Υ	Υ
MPLR33626		7.6/INI code C (INI000 0000000c) from REMOVE_FROM_CDN: SICE_RECOVERY:: SICE_BROKEN_Q:: TRAP due to SICE_RECOVERY defect	Y	Y	Υ
MPLR33641	MPLR32936	MERGE: MPLR33641 Preventive patch for continuously printing AUD399 + MPLR32936 VTRK call are rejected with cause "MSG NOT COMPATIBLE WITH STATE"	Y	Y	Y

Patch Id	Previous Version	Patch Title	C P L	P P 4	P
MPLR33643		Wrong Message Reference ID sent to SLG in CRS message in ACD Call Force scenarios with AACC	Υ	Υ	Υ
MPLR33646	MPLR33016	MERGE: MPLR33646 "Hospitality Feature - CLEAR THE CALLERSLIST AND REDIALLIST RIs 7.6" + MPLR33016 "One-way speech path when UNIStim phone calls SIP phone, the UNIstim phone or analog phone gets the call by Pickup feature" ** MPLR27203 is the PI enabler **	Υ	Υ	Υ
MPLR33647	MPLR32674	MERGE: MPLR33647 (Wrong Message Reference ID sent to SLG in CRS message in Disconnect scenarios with AACC) + MPLR32674 (SIPL uext is locked after calling to unreacheable cellular phone number via EuroISDN ***REFER TO SPECIAL INSTRUCTIONS***)	Υ	Υ	Υ
MPLR32811		BUG6020 messages observed on a daily basis	Υ	Υ	Υ
MPLR33648	MPLR32339	MERGE: BUG1366 is printed and SCR key is stuck in half disconnect state + MPLR32339 (No speechpath when SIPL Polycom wireless sets call to CDN queue).	Υ	Υ	Υ
MPLR33652		Originator's name and number are not fully shown after disconnecting of a consultation call to external number with PPM enabled, and activating a held call	Υ	Υ	Υ
MPLR33655		MEM215 from WRITEPDSBIT called in ISDN\$OUTG_CALL_INIT	Υ	Υ	Υ
MPLR33662		CSV import process fails due to SCH2361	Υ	Υ	Υ
MPLR33663	MPLR33492	MERGE MPLR33663( Issue with ACD BCS) + MPLR33654 does not fix Lineside issue with quick disconnect if originator is ISDN + MPLR33615 MEM223 Memory corruption: block length incorrect + MPLR33492 Issues Observed on Lineside E1 card + *** MPLR33654 HAS SPECIAL INSTRUCTIONS, PLEASE REFER TO EXTERNAL NOTES ***	Υ	Υ	Υ
MPLR33666		BERR0705 in tRUDP task durin ELAN link fluctuation	Υ	Υ	Υ
MPLR33668	MPLR33506	MERGE: MPLR33668(patch for BUG330 - TAT related scenarios) + MPLR33631 + MPLR33506 ***REFER TO SPECIAL INFORMATION***	Υ	Υ	Υ
MPLR33669		INI after BUG7058 SWD WATCHDOG from semMQUnlockPut caused by tnTableSem deadlock between tSL1 and tvtServerRx tasks	Υ	Υ	Υ
MPLR33670		SIP Line Transfer then TROBA scenario causes long ringing calls	Υ	Υ	Υ
MPLR33675	MPLR32638	Merge: MPLR33675 open up plug-in 227 + MPLR32638 pdt> ple 236 Response comes back that plugin is not supported This patch converts fix from patch MPLR25106 to a plugin (plugin 236) *** NOTE: SEE NOTES FOR SPECIAL INSTRUCTIONS ***	Υ	Υ	Y
MPLR33679	MPLR32919	MERGE: MPLR33679 "Preventive for unwanted BERR0705 EXC 1: Exception 14 in Task tvtServerRx" + MPLR32919 "INI after multiple BERR0705 in tvtServerRx"	Υ	Υ	Υ
MPLR33681		DTI2 loops cause INI loop in some configurations	Υ	Υ	Υ
MPLR33686	MPLR33052	MERGE: MPLR33686 (No ringback tone for SIP calls to network AACC agent on the CS1000) + MPLR33052 (No ringback tone for NACD tandem calls via SIP trunks)	Υ	Υ	Υ

Patch Id	Previous Version	Patch Title	C P L	P P 4	C P M
MPLR33688		When adding a new DECT Phone with CDEN 8D, get an Error Code SCH3292: Invalid Card Density	Υ	Υ	Υ
MPLR33687	MPLR32692	MERGE: MPLR33687 (Use of monitoring tools can lead to a leak of file descriptors used for overlay related pipes (/POVLx.)) + MPLR32692 (INI caused by BERR0705 and Exception in the "tRstTask" task) + MPLR32493 (Configuration Capture Tool stops capturing logs) + MPLR32617 (While configuring in ID 117, CS1000 may save a password in the Tool log) *** PLEASE NOTE THAT THIS PATCH USES PatchGlobalVar0 *** PLEASE NOTE THAT THIS PATCH USES patchStub700() ***	Υ	Υ	Y
MPLR33691		SIPL is stuck in REORDER state.	Υ	Υ	Υ
MPLR33692		SIPL is stuck in REORDER state.	Υ	Υ	Υ
MPLR33696		GPHT NOT WORKING CORRECTLY, BUG1500.	Υ	Υ	Υ
MPLR33698		User hears background ringback tone during established conference call.	Υ	Υ	Υ
MPLR33699	MPLR33524	MERGE: PI MPLR33699 PI: CLID conversion by SDID for ISDN-UIPE tandem. (ACT MPLR21219) + PI MPLR33524 INSERT DAPC DIGITS AND ADJUST TON - SBB SNE KIT *** NOTE: ALSO KNOWN AS ASCOM PATCH 550 *** NOTE: Use MPLR21940 to activate the functionality.	Υ	Y	Υ
MPLR33702		AAAD : Missed AML USM disconnect for transfer consultation call from analog 500 ACD agent.	Υ	Υ	Υ
MPLR33704		MERGE:MPLR33704 BUG5578 in RAS trace with ELC feature activated + MPLR33658 CPND name gets removed from CS DB if the key with same assigned name is changed to NUL.	Y	Y	Y

Table 2: Call Server Service Pack (Deplist) Special Instructions

Patch ID	Sysload/INI/ Required	Special instructions
MPLR31900		CONDITIONAL SPECIAL INSTRUCTIONS:
		If you have got into this state at a customer site:
		Unable to connect to CS1000 via SSH.
		Then the CS1000 will need to be SYSLOAD'ed to recover.
		Patch MPLR31900 will prevent reoccurance of the problem.
MPLR32343		If you would like to deactivate 2 or more patches through GUI Patch Manager do not deactivate this patch with others otherwise the deactivation can failed.
MPLR32410	yes	Patch must be retained invulnerable to SYSLOAD/INI with parameters 0-100-0. Warm Start (INI) is required after patch activation.
MPLR32413		New reason for AACC USM (Unringing) at an IVR Port when an agent becomes available. To activate PI functionality MPLR30038 is required

Patch ID	Sysload/INI/ Required	Special instructions
MPLR32418		PI: prevent the activation of call forward all calls via AC2 + number. MPLR09810 should be installed to activate PI functionality.
MPLR32431	yes	INI required for patch activation.
		For SMC only: Login to MC32 not using ssh connection(for example via Telnet) and perform the following:
		SSHS_shutdown
		sshServerManagerServerStart
		<b>Note 2:</b> Note: The system is vulnerable to this problem until MPLR32431 is installed and activated.
		The likelihood of occurrence of this vulnerability is quite low if IP Sec is disabled.
MPLR32562		PI: Feature Operation Failure FFC RPA code does not work on 500. ACT MPLR10373 activates PI functionality
MPLR32572	yes	INI required after patch installation. Not applicable to CPL platform
MPLR32594		PI: SECURITY CHECK ON DID/CO TRUNKS. Install MPLR21988 to activate PI functionality
MPLR32613		PI: No TRO when call diverted to rpa DSC 18 or 10. ACT MPLR22854 activates PI functionality
MPLR32623	yes	After patch is in-service, the call server requires an initialization (INI) to fully activate this patch.
		After patch is out-of-service, the call server requires an initialization (INI) to fully deactivate this patch.
MPLR32654		Fix consists of two parts cs1000-cs-7.65.P.100-02.i386.000.ntl and MPLR32654. Both patches must be installed on a system.  Do not remove this patch during Deplist deactivation!
MPLR32671		SAR(overlay 88)/ICR(Incoming Call Restriction) PRODUCT IMPROVEMENT *** NOTE: ALSO KNOWN AS ASCOM PATCH 239 *** ACT MPLR21285 activates PI functionality
MPLR32526		For proper activation of the patch it is required to relogin into ld 117, if the overlay is run during installation of the patch.
		The patch has a limitation: an upper limit on a length of FQDN is 100 symbols.

Patch ID	Sysload/INI/ Required	Special instructions
MPLR32742	yes	ONLY if upgrading from Option 11C database with release prior X11 25.15 to CS1000E:
		Upgrade the system to the current release with Default database.
		2. Install MPLR32742 invulnerable to sysload: pdt> pload Patch filename? p32742_1.cpm Retain patch (y/n)? [y] y Days patch vulnerable to sysload? [3] 0 In-service initialize threshold? [5] 100 In-service days to monitor inits? [7] 0 Loading patch from "/u/patch/p32742_1.cpm" pdt> pins  3. Restore Option 11C database.
		4. Perform the cold start to initiate the database conversion.
MPLR32744		It's CS part of fix. Should be loaded with SS patch cs1000-tps-7.65.16.21-06.i386.000
MPLR32771	yes	This patch needs warm start to activate it.
MPLR32782		To enable "Diagnostic for AUD017/AUD018" tool: pdt> PATCH_1 2 2  To disable "Diagnostic for AUD017/AUD018" tool: pdt> PATCH_1 2 3
		To display "Diagnostic for AUD017/AUD018" tool status: pdt> PATCH_1 2 1
		MEMORY REQUIREMENTS:
		(16 + 8) + (NLP * 32 * 32 + 8) * 16 words of unprotected SL-1 memory, where NLP is the number of loops available in the system (256 or 160).
		For CS1000E, CS1000M-MG: (16 + 8) + (256 * 32 * 32 + 8) * 16 = 4194456 words
		For CS1000M-SG: (16 + 8) + (160 * 32 * 32 + 8) * 16 = 2621592 words
MPLR32848	yes	Install this patch and others. Install the database from the old release, then sysload. If the old release was already present during the sysload to bring up the system for patching (i.e. normal upgrade process), ensure that EDD has not occurred prior to rebooting with the patch installed. If it did then restore the old database

Patch ID	Sysload/INI/ Required	Special instructions
MPLR32855		The patch prints strings starting from DIAG and RAS.
		This patch takes additional 550 kbytes of memory (available memory is printed in different ovarlays, e.g. LD 11).
		Installation instructions:  1. Copy and install MPLR32733 to the system if it is not in service.  2. Copy the patch p32855_1.pp4 to the call server.  3. Load the patch in PDT shell: pload p32855_1.pp4  4. Put the patch in service: pins 'handle'.  5. Activate the patch in PDT shell: PATCH_1 3 2.  6. Activate enhanced junctor information printing (optional) pdt> PATCH_1 3 4  7. Perform call scenarios and collect logs.  De-installation instructions:  1. Disable enhanced junctor information printing (if enabled) pdt> PATCH_1 3 5
		<ul><li>2. Deactivate the patch in PDT shell: PATCH_1 3 3</li><li>3. Remove the patches from service and from memory (optional).</li></ul>
MPLR32865		MPLR32865 should be installed with cs1000-vtrk-7.65.16.21- 45 on Signaling Server.
MPLR32947		FOR CPPM ONLY:  Special Instructions: INI is required for patch activation.  DIAG0005 message with prefix like below can be printed once during startup:  DIAG0005 Diagnostic: MPLR32947  This patch replaces MPLR32442.
MPLR33008		LIMITATION: NEED TO RE-REGISTER ALL AUTO UPDATED IP SETS TO APPLY PATCH CHANGES AFTER PATCH ACTIVATION
MPLR33138		Use second debug level only from debug console. Second level logs contains many output, it could affect call processing. Use with caution.

Patch ID	Sysload/INI/ Required	Special instructions
MPLR33162		ONLY if SYS4439 is seen on Sysload, perform the following actions:
		1. Load the patch to survive sysload: pdt> pload Patch filename? p33162_1.pp4 Retain patch (y/n)? [y] y Days patch vulnerable to sysload? [3] 0 In-service initialize threshold? [5] 0 In-service days to monitor inits? [7] 0 Loading patch from "/u/patch/p33162_1.pp4" Sysload and data dump are required after this patch activation. PCH0227: patch 242 has special instruction at the time of loading Continue with patch load (y/n)? [y]y
		<ol> <li>Patch handle is: 242</li> <li>Sysload the system, wait for it is operational.         The message SYS4439 will be printed and the patch will correct the database.     </li> <li>When the system is fully loaded, make the data dump (LD 43, edd clr).         On the next sysloads the SYS4439 will not be printed.     </li> </ol>
MPLR33223		This patch contains inactive PI functionality.  To activate PI functionality ACT MPLR33225 should be installed.  Should be installed with PUPEAA89.LW loadware.
		The new T304 timer prompt is implemented in LD 17. T304 timer value MUST be configured in increments of 10 seconds. Other entered values that are not equal to 20, 30, 40, etc. will be CONVERTED to 20, 30, 40.
MPLR33231		This patch must be in service together with: cs1000-mscAnnc-7.65.16.22-1; cs1000-mscMusc-7.65.16.22-1; cs1000-mscConf-7.65.16.22-1; cs1000-mscAttn-7.65.16.22-1
MPLR33349		MPLR33350 is required for proper work of this patch.
MPLR33350		MPLR33349 is required for proper work of this patch.
MPLR33381		This patch should be used together with MGC patch MPLR32627

Patch ID	Sysload/INI/ Required	Special instructions	
MPLR33382 PATCH MPLR33382 SHOULD BE USED TOGETHER W OR HIGHER		All CS1000 nodes must be patched with MPLR33004 + VTRK SU in order for this	
		If all nodes are not patched with MPLR33382 + VTRK SU, then there will be NO breakage of other MCDN features.	
MPLR33390	yes	SPECIAL INSTRUCTIONS:	
		<ol> <li>Make sure CS1000 dual CPU (HA) system is fully redundant.</li> <li>Install (pload + pins) patch MPLR33390 on the active CPU</li> <li>Wait 2 minutes to give the CS1000 time to automatically sync the Inactive CPU to the Active CPU (i.e. patch will go in-service on Inactive CPU with this automated process).</li> <li>Do a manual INI on the Inactive CPU (e.g. In LD 135 on the Active CPU: issue command: INI INACTIVE). The INI is required to activate the patch.</li> </ol>	
		(It is not necessary to do a manual INI on the ACTIVE CPU. If in the future, CPU's SWAP, so that Inactive becomes Active, after the switchover, the old active CPU will anyway have to reboot as part of that process, and the fix will be activated properly on that CPU at that point).	
MPLR33409		Notes:	
		If UBT is less than or equal to 6 s. then the accuracy is -0.128+0.144 s.  If UBT is more than 6 s. then the accuracy is -0.3+1.7 s.	

Patch ID	Sysload/INI/ Required	Special instructions
MPLR33424	yes	An INI is required for activation of the patch on VxEII (CoRes) platform. The INI is not required on other Call Server platforms.
		====
		Message like a below one is printed out to a maintenance TTY hourly if a manual INI was not done after activation of a patch which requires it.
		MPLR33424: At least one of the installed patches requires a manual INI to activate. Please perform an INI as soon as possible.
		Moreover, PCH0183 message is logged in the RPT log file once per day around midnight.
		PCH0183 MPLR33424: At least one of the installed patches requires a manual INI to activate. Please perform an INI as soon as possible.
		There is a mechanism to disable reminder message. In order to do that run following command in the vxshell:
		-> PatchGlobalVar4=1
		To enable the message again run:
		-> PatchGlobalVar4=0
MPLR33468		Patch requires cs1000-vtrk-7.65.16.23-21+ installed on SS

Patch ID	Sysload/INI/ Required	Special instructions	
MPLR33481		MPLR33439 special instructions:	
		Please put ACT MPLR33481 in service to activate the patch functionality.	
		MEMORY REQUIREMENTS for MPLR33439:	
		Roughly (NCR * 16) words of unprotected SL-1 memory, where NCR is the number of call registers available in the system.	
		MPLR32773 special instructions:	
		MPLR32733 (Tool Management) should be activated.	
		To enable "Diagnostic for BUG266" tool: pdt> PATCH_1 1 2	
		To disable "Diagnostic for BUG266" tool: pdt> PATCH_1 1 3	
		To display "Diagnostic for BUG266" tool status: pdt> PATCH_1 1 1	
		MEMORY REQUIREMENTS for MPLR32773:	
		Roughly (NCR * 32) words of unprotected SL-1 memory, where NCR is the number of call registers available in the system.	
MPLR33482		NOTE:  1. MPLR33494 (TOOL MANAGEMENT) should be activated.  2. Avoid any service change operations when the tool is running.	
		To display "AUDIT FOR DN_GHBLK CORRUPTIONS" tool status: pdt> PATCH_1 4 1	
		To turn on/off "SEARCH FOR CORRUPTIONS" option: pdt> PATCH_1 4 4	
		To turn on/off "SEARCH AND CORRECT" option: pdt> PATCH_1 4 5	
		To run "AUDIT FOR DN_GHBLK CORRUPTIONS" tool: pdt> PATCH_1 4 2	

Patch ID	Sysload/INI/ Required	Special instructions	
MPLR33501		The patch requires cs1000-vtrk-7.65.16.22-45 or above on Signaling Server.	
MPLR33551		Special instructions from MPLR33101: PATCH SHOULD BE ACTIVATED WITH VTRK SU 22-24	
MPLR33647		SPECIAL INSTRUCTIONS: Due to merge of MPLR32674 patch MPLR33647 should be applied with minimum vtrk su: cs1000-vtrk-7.65.16.21-30.i386.000.ntl	
MPLR33663		**************************************	
		call duration is less than 1,186 s.  NOTE2: Patch fixes the issue if originator is BCS set, PBX set, Euro or SL1 and DPNSS trunk.  NOTE3: ACT MPLR33284 needed to activate MPLR33663 functionality  ***********************************	

Patch ID	Sysload/INI/ Required	Special instructions
MPLR33668		This patch is merged with MPLR33360 which must be used with SU cs1000-vtrk-7.65.16.23-19.i386.000 or newer;
		This patch is merged with MPLR32710 which should be used together with SU cs1000-vtrk-7.65.16.21-49.i386.000 or newer vtrk patch.
		***
		This patch is merged with MPLR32466 which has inactive PI functionality. To enable PI functionality MPLR32477 is required.
		Software lineup
		1. CM version FP2 6.3 Load 120 or newer.
		2. CS1K version GA load x210765p and 7.65.16 + following patches  MPLR32466 is for call server GEN patch
		MPLR32477 is MPLR32466 's patch enabler
		cs1000-vtrk-7.65.16.21-29.i386.000.ntl is for VTRK SU patch
		MPLR32474 is vtrk's patch enabler
		***
		Tips
		1. The CS1K recommended Collaboration pack configuration need to be followed.
		2. Make sure there is no SIPS & SIP mix configuration in the deployment,
		because the CS1K does not support SIPS and SIP mix configuration, if the SIPS & SIP is mixed, the CS1K will reject the call.
		the SIPS & SIP is mixed, the CSIK will reject the call.
		From MPLR32895
		2 ways to put the patch in service:
		1. They can avoid CS INI (warm start) and put the patch in service at any time. The could still have few calls (max 30 per TDS loop) that could be potentially dropped after installation of the patch because of the fact that some VGWs are still not cleaned from TDS unprotected loop block.
		2. They can to CS INI after putting patch in service if they want to make sure
		there are no dropped call at all. In this case, they need to do the patch
		installation using maintenance window when the traffic is low.
		**************************************

Patch ID	Sysload/INI/ Required	Special instructions	
MPLR33675	Yes	Special Instructions for MPLR32638:	
pdt> pdt> p PLUG Specia Id 22 REQ:p		Patch makes possible to enable plugin. pdt> ple 236 PLUG-IN 236 IS ENABLED Special Instructions for MPLR Id 22 REQ:prt TYPE Plugin	
		INSTRUCTIONS OF THE PATCH USAGE:	
In order the patch brings effect  1)it should be activated as retain patch 2) cold start should be done to CS.  Special Instructions for MPLR33675:  ===================================		In order the patch brings effect  1)it should be activated as retain patch	
	INSTRUCTIONS OF THE PATCH USAGE:		
In order the patch brings effect  1)it should be activated as retain patch  2) cold start should be done to CS.		In order the patch brings effect  1)it should be activated as retain patch	
MPLR33754		Please note that disconnect of SSH session during manual firmware download is not normal process!  This patch aborts process only on CS side and doesn't clear internal flags (MAINT bit and PSDL downloading state flag) on the sets for which PSDL process was started.	
So firmware update process should be started again for affected sets and completed (with any download result).  This limitation comes from existing limitation in aborting PSDL work caused by exit from overlay (start PSDL process in ld 32(11), exit by **** from the overlay before completion).		for affected sets and completed (with any download result).  This limitation comes from existing limitation in aborting PSDL work caused by exit from overlay (start PSDL process in Id 32(11), exit	

MPLR33764	This patch is merged with MPLR33360 which must be used with SU cs1000-vtrk-7.65.16.23-19.i386.000 or newer;  This patch is merged with MPLR32710 which should be used together with SU cs1000-vtrk-7.65.16.21-49.i386.000 or newer vtrk patch.
	***
	This patch is merged with MPLR32466 which has inactive PI functionality. To enable PI functionality MPLR32477 is required.
	Software lineup 1. CM version FP2 6.3 Load 120 or newer. 2. CS1K version GA load x210765p and 7.65.16 + following patches
	MPLR32466 is for call server GEN patch MPLR32477 is MPLR32466 's patch enabler cs1000-vtrk-7.65.16.21-29.i386.000.ntl is for VTRK SU patch MPLR32474 is vtrk's patch enabler
	***
	Tips 1. The CS1K recommended Collaboration pack configuration need to be followed. 2. Make sure there is no SIPS & SIP mix configuration in the deployment, because the CS1K does not support SIPS and SIP mix configuration, if the SIPS & SIP is mixed, the CS1K will reject the call.
	From MPLR32895
	2 ways to put the patch in service:
	1. They can avoid CS INI (warm start) and put the patch in service at any time. The could still have few calls (max 30 per TDS loop) that could be potentially dropped after installation of the patch because of the fact that some VGWs are still not cleaned from TDS unprotected loop block.
	2. They can to CS INI after putting patch in service if they want to make sure there are no dropped call at all. In this case, they need to do the patch installation using maintenance window when the traffic is low.
	*******************
MPLR33783	To enable this PI functionality use ACT MPLR16691.

Patch ID	Sysload/INI/	Special instructions	
Required			
MPLR33787	R33787 **********************************		
		The issue occurs due to unrecommended preferences of SYSP block and LE1	
		hardware issue.	
		Need to configure recommended SYSP preferences:	
		FLASH TIMERS 120 0896	
		ACT MPLR33284 needed to activate patch functionality	
		*******************	
MPLR33791		IMPORTANT NOTES!	
		callLog tool should be disabled during patch installation	
		2. it is recommended to use GEN patch MPLR33753 on the CS if high traffic	
		is expected	
		3. Patch has almost the same functionality as DBG MPLR33790, but without	
		configurable task priority. If you need to use callLog with lower task	
		priority set, please install MPLR33790 instead of this patch.	
		***********************	
		Patch adds new command for callLog tool:	
		callLog set files <n></n>	
		- set max number of generated ncl.log files, <n> is in range 4-50   ***********************************</n>	

## Table 3: Fixes Delivered to CS1000 Linux SU Service Pack 9.

Patches and SUs with RED fill have special Instructions which are documented in <u>Table 4</u>.

SU ID	Description of Fixes included in Each SU
MPLR33774	Required to update OpenSSH packages on Linux Base to 4.3p2-82.el5 *** PLEASE REFER TO EXTERNAL NOTES FOR SPECIAL INFO ***
cs1000-bcc-7.65.16.23-19.i386.000	**REFER TO SPECIAL INFORMATION** Subscriber Manager does not update CPND Name in BCC (BCC part)
	**REFER TO SPECIAL INFORMATION** CPND name is not updated in EM sometimes for phone with the same DN on several keys
	PUID not updating in CS when changed in SMGR.***REFER TO SPECIAL INFORMATION***
	Cannot add CS1000 profile to UPM user***REFER TO SPECIAL INFORMATION***
cs1000-cs1000WebService_6-0-7.65.16.23- 6.i386.000	Subscriber Manager does not update CPND Name in BCC (WS part)
0.1380.000	CPND name is not updated in EM sometimes for phone with the same DN on several keys (WS part)
cs1000-dbcom-7.65.16.23-1.i386.000	Required to close MySQL TCP port on non-NRS systems *** PLEASE REFER TO SPECIAL INFO SECTION FOR MORE INFO ***
cs1000-emWeb_6-0-7.65.16.23-8.i386.000	Wrong values entered by users are silently corrected by the EM without a notification***REFER TO SPECIAL INFORMATIOM***
cs1000-Jboss-Quantum-7.65.16.23-12.i386.000	Required to prevent issues related to CVE-2010-0738, CVE-2010-1428 and CVE-2010-2493
	Required to address CVE-2011-2908 for Jboss.
	Required to prevent external access to the DNS service on Linux based servers
	Required to adjust cipher suites used by Jboss for HTTPs connections
cs1000-linuxbase-7.65.16.23-35.i386.000	Update time zone info with use of data on 28th Sep 2016 *** PLEASE REFER TO SPECIAL INFORMATION SECTION ***
	Required to update the master firewall configuration for support of QoS-marking for SIPLine *** PLEASE REFER TO SPECIAL INFO SECTION FOR MORE INFO ***
	Required to provide a way to disable RC4 ciphers for SSHd *** PLEASE REFER TO THE SPECIAL INFO SECTION ***
	freeDiskSpace can remove loaded patch files from the patch directory *** PLEASE REFER TO THE SPECIAL INFO SECTION ***

SU ID	Description of Fixes included in Each SU
	monlist is enabled for 'not a clock source' configuration *** PLEASE REFER TO THE SPECIAL INFO SECTION ***
cs1000-mscAttn-7.65.16.23-15.i386.000	Coredump on mscAttn application ***REFER TO SPECIAL INFORMATION***
	Unable to re-register IP Attendant Consoles because of a memory leakage in mscAttn application *** PLEASE REFER TO SPECIAL INFO SECTION FOR MORE INFO ***
	Port scans / security scans on TLAN can lead to a crash of CS1000 SIG SERVER mscAttn process *** PLEASE REFER TO SPECIAL INFO SECTION FOR MORE INFO ***
	IP ATTN: warning is seen in logs WARNING: OnCallCleared: Voip call failed! Call cleared due to loss of media flow. Not forcing disconnect! Can lead to Speechpath problems and/or IP ATTN application freeze. ***REFER TO SPECIAL INFORMATION***
cs1000-oam-logging-7.65.16.23-1.i386.000	Command /opt/nortel/oam-logging/configureSpiritAgentClient.sh throwing an error "the command not found" ***REFER TO SPECIAL INFORMATION***
cs1000-pd-7.65.16.23-1.i386.000	LDAP sync failed via TLS port after a CS1K member was moved to a different security domain
cs1000-shared-pbx-7.65.16.23-3.i386.000	**REFER TO SPECIAL INFORMATION** itgCardShow shows negative values after 248 days
cs1000-tps-7.65.16.23-21.i386.000	TPS coredump during IP set deregistration *** PLEASE REFER TO SPECIAL INFORMATION SECTION FOR SPECIAL INSTRUCTIONS ***
cs1000-vtrk-7.65.16.23-123.i386.000	There is no speech path when call is forwarded by CM back to CS1000.***REFER TO SPECIAL INFORMATION***
	TAT doesn't work on SIP trunks between CS1000 and Trio.***REFER TO SPECIAL INFORMATION***
	Incoming PSTN SIP call CFW'ed to external number on the same SIP trunk fails with no speech path.***REFER TO SPECIAL INFORMATION***
	Multiple coredumps per day.***REFER TO SPECIAL INFORMATION***
	No speech path when CP transfers SIP call to PSTN.***REFER TO SPECIAL INFORMATION***
	No speechpath issue if 200 OK contains more than one type of codecs***REFER TO SPECIAL INFORMATION***
	No Speech path when the call is going to Mitel system from CS1K.***REFER TO SPECIAL INFORMATION***

SU ID	Description of Fixes included in Each SU
	Wrong DSCP values are used for signaling traffic by Sip Line gateway *** PLEASE REFER TO SPECIAL INFO SECTION FOR MORE INFO ***
jdk-1.6.0_151-fcs.i586.000	Upgrade of JDK to 6u121 *** PLEASE REFER TO SPECIAL INFORMATION SECTION ***
	Upgrade of JDK to 6u131 *** PLEASE REFER TO SPECIAL INFORMATION SECTION ***
	Upgrade of JDK to 6u141 *** PLEASE REFER TO THE SPECIAL INFO SECTION ***
	Upgrade of JDK to 6u151 *** PLEASE REFER TO THE SPECIAL INFO SECTION ***
kernel-2.6.18-419.el5.i686.000	Required to update kernel packages on Linux Base because of CVE-2016-1583, CVE-2016-5195 and BZ#1067708 *** PLEASE REFER TO THE SPECIAL INFO SECTION FOR SPECIAL INSTRUCTIONS ***
	Required to update kernel packages on Linux Base because of CVE-2016-7117 *** PLEASE REFER TO THE SPECIAL INFO SECTION FOR SPECIAL INSTRUCTIONS ***
	Required to update kernel packages on Linux Base because of CVE-2017-2634 and CVE-2017-6074 *** PLEASE REFER TO THE SPECIAL INFO SECTION ***
kernel-PAE-2.6.18-419.el5.i686.000	Required to update kernel-PAE packages on Linux Base because of CVE-2016-1583, CVE-2016-5195 and BZ#1067708 *** PLEASE REFER TO THE SPECIAL INFO SECTION FOR SPECIAL INSTRUCTIONS ***
	Required to update kernel-PAE packages on Linux Base because of CVE-2016-7117 *** PLEASE REFER TO THE SPECIAL INFO SECTION FOR SPECIAL INSTRUCTIONS ***
	Required to update kernel-PAE packages on Linux Base because of CVE-2017-2634 and CVE-2017-6074 *** PLEASE REFER TO THE SPECIAL INFO SECTION ***
openssl-0.9.8e-40.el5_11.i386.000	Update openssl packages on Linux Base because of CVE-2016-2108 *** PLEASE REFER TO SPECIAL INFORMATION SECTION ***
pass_harden-7.65.16.23-2.i386.000	Critical cron jobs are not executed after root password expired
	The account locking policy is not well defined
pcap-7.65.16.23-1.i386.000	Increase the maximal size of pcap files captured by pcapTool
submgr-2.3.0-22.noarch.000	**REFER TO SPECIAL INFORMATION** Subscriber Manager does not update CPND Name in BCC

SU ID	Description of Fixes included in Each SU
	Subscriber Manager has a lot subscribers with single unpublished accounts***REFER TO SPECIAL INFORMATION***
	When disassociating an account from a subscriber, the numbering info written to external AD (Active Directory) via LDAP sync, is not removed***REFER TO SPECIAL INFORMATION***
	Failed to sync CP member on UCM standalone system***REFER TO SPECIAL INFORMATION***
tzdata-2016g-2.el5.i386.000	Update tzdata rpm to 2016g version

Table 4: Special Instructions for SUs within Service Pack 9

SU ID	Special Instructions for Each SU
MPLR33774	A reboot of the server or a restart of sshd daemon is recommended after installation of this patch. E.g.:
	# /sbin/service sshd restart
	Please note that uninstallation of this patch will not lead to downgrade of new OpenSSH packages.
cs1000-bcc-7.65.16.23-19.i386.000	After application of the patch, "Update database" should be performed on "Element Manager / Phones / Properties" page and then "Retrieve All Phones and Reconcile" operation should be performed for all sets configured on the server on "Element Manager / Phones" pages. All temporary files and cookies should be removed from Internet Explorer browser.  This patch requires patch cs1000-Jboss-Quantum-7.65.16.22-1 or higher to be installed.  NOTE for CS1000/SMGR interworking usage: this patch is supposed to work along with SMGR 6.3.17 Hot Fix  System_Manager_R6.3_FP4_SP17_HF_5415337.bin and higher.

SU ID	Special Instructions for Each SU
cs1000-dbcom-7.65.16.23-1.i386.000	SPECIAL INSTRUCTIONS FOR cs1000-dbcom-7.65.16.21-00.i386.000:
	The fix has two parts: cs1000-shared-xmsg-7.65.16.21.i386.000 and cs1000-dbcom-7.65.16.21-00.i386.000. Both patches should be installed on a system.
	SPECIAL NOTES FOR cs1000-dbcom-7.65.16.23-1.i386.000:
	The update introduces a new hardening module that can be used to open/close MySQL TCP port. Please check a following command for more info:
	harden mysql help
cs1000-emWeb_6-0-7.65.16.23-8.i386.000	This patch requires patch Jboss-Quantum-7.65.16.22-1 or higher to be installed.
	Traffic report collection (EM -> Tools -> Logs and Reports -> Operational Measurements -> Traffic Report Collection) should be disabled before SU activation.
cs1000-Jboss-Quantum-7.65.16.23- 12.i386.000	This SU introduces a new hardening module to control hardening levels for cipher suites used by Jboss for access to the Web UI.
	The new default hardening level is medium. It is applied automatically during the SU installation. Please note that appropriate cipher suites can be incompatible with legacy Web browsers.
	The low hardening level allows use of the legacy cipher suites that are not recommended for use anymore because of security concerns.
	It is possible to switch between low and medium hardening levels with use of following commands:
	harden jboss_web level low harden jboss_web level medium
	The high hardening level is currently not supported.

SU ID	Special Instructions for Each SU
cs1000-linuxbase-7.65.16.23-35.i386.000	1. Please note that this patch must be installed before a Service Pack. 2. Please note that tzdata-2016g-2.el5.noarch.000 is required for this SU. 3. Upgrading from cs1000-linuxbase-7.65.16.21-01.i386 or prior SU, please do the following under root user before patch installation:  chmod 444 /var/opt/nortel/base-apps/*  chmod 755 /opt/nortel/Jboss-Quantum/run/jbossd 4. If it is required to minimize risks related to use of CBC block ciphers and weak MAC algorithms for SSH, please reboot the server or restart sshd service after installation of this SU. 5. If it is required to eliminate issues related to false alarms from sshd service related to monit health checks, please reboot the server after installation of this SU. 6. If it is required to mitigate risks related to CVE-2013-5211, please reconfigure NTP after installation of this SU.  ===================================
	Please note that this update helps to move ntpstats directory from /etc/ntp to /var/log - the NTP service should be reconfigured with use of <b>ntpconfig</b> for that - and introduces a weekly cron job to clean up legacy NTP stats from /etc/ntp/ntpstats and /var/log/ntpstats directories.
cs1000-mscAttn-7.65.16.23-15.i386.000	The following patches (or higher versions) must be in service together:  - p33231_1; - cs1000-mscAnnc-7.65.16.22-2; - cs1000-mscMusc-7.65.16.22-4; - cs1000-mscConf-7.65.16.22-2; - cs1000-mscTone-7.65.16.22-2; - cs1000-mscAttn-7.65.16.22-2.
cs1000-oam-logging-7.65.16.23-1.i386.000	This patch requires patch Jboss-Quantum-7.65.16.22-1 or higher to be installed.  If it is member server and log forwarding to primary SMGR is enabled please invoke configureSpiritAgentClient.sh script after SU activation.
cs1000-shared-pbx-7.65.16.23-3.i386.000	<ol> <li>MPLR33274 must be installed together with this SU, and the Signaling Server must be rebooted after this SU is put in service.</li> <li>If it is required to use the mutual authentication for DTLS, please also install next SUs or newer ones:</li> <li>cs1000-csv-7.65.16.23-1.i386.000 and cs1000-tps-7.65.16.23-16.i386.000</li> </ol>

SU ID	Special Instructions for Each SU
cs1000-tps-7.65.16.23-21.i386.000	1. This SU should be loaded with Call Server patch MPLR32744.
	2. If it is required to use the mutual authentication for DTLS, please also install following SUs/patches or newer ones:
	cs1000-csv-7.65.16.23-3.i386.000 cs1000-shared-pbx-7.65.16.23-2.i386.000 MPLR33569
	If the mutual authentication is not required, but the DTLS is in use, please ensure that an appropriate option is disabled in the node settings.
cs1000-vtrk-7.65.16.23-123.i386.000	<ol> <li>This SU should be loaded when a deplist from SP7 or a newer one is inservice on the Call Server.</li> <li>If it is required to fix the issue with QoS-marking for SIPLine related traffic, please install cs1000-linuxbase-7.65.16.23-32.i386.000 SU or a newer one before installation of this vtrk SU.</li> </ol>
jdk-1.6.0_151-fcs.i586.000	Please note that this patch requires cs1000-Jboss-Quantum-7.65.16.23-6 or a newer one for proper work and installation.
kernel-2.6.18-419.el5.i686.000	<ol> <li>This SU is applicable to CPPM based Signaling Servers only.</li> <li>Please note that a reboot is required after installation of this SU.</li> <li>cs1000-linuxbase-7.65.16.23-6 or newer is required for proper installation.</li> <li>cppmUtil-7.65.16.23-3 or newer is required for proper work.</li> </ol>
kernel-PAE-2.6.18-419.el5.i686.000	<ol> <li>This SU is not applicable to CPPM based Signaling Servers.</li> <li>Please note that a reboot is required after installation of this SU.</li> <li>cs1000-linuxbase-7.65.16.23-6 or newer is required for proper installation.</li> <li>cppmUtil-7.65.16.23-3 or newer is required for proper work.</li> </ol>
openssl-0.9.8e-40.el5_11.i386.000	A reboot of the server is required after installation of this update because of necessity to restart system services and CS1000 applications.
	If MPLR33331, MPLR33511, MPLR33554 or MPLR33695 are in-service, they should be removed first. A requested reboot can be skipped. After that the update can be installed, and a system reboot can be performed at this point.
pass_harden-7.65.16.23-2.i386.000	This update introduces a new account locking policy for access to CLI on the CS1000 Linux based servers. If a password is entered improperly 5 or more times, the account will be locked for an hour. This policy is not applicable to root account, which is not usable for SSH access anyway.
submgr-2.3.0-22.noarch.000	This patch requires patch cs1000-Jboss-Quantum-7.65.16.22-3 or higher to be installed

## Table 5: Fixes Delivered to CS1000 Linux EL6 SU Service Pack 9.

Patches and SUs with RED fill have special Instructions which are documented in <u>Table 6</u>.

SU ID	Description of Fixes included in Each SU
MPLR33773	CS1000-CSR3: Required to adjust CND for proper work of backup security servers. *** PLEASE REFER TO EXTERNAL NOTES FOR SPECIAL INSTRUCTIONS ***
cs1000-bcc-el6-7.65.19.00-2.noarch.000	A cumulative update #1 for bcc on CSR3 platform. *** PLEASE REFER TO SPECIAL INFO SECTION FOR MORE INFO ***
	CS1000-CSR3: Cannot add CS1000 profile to UPM user *** PLEASE REFER TO SPECIAL INFO SECTION FOR MORE INFO ***
cs1000-Jboss-Quantum-el6-7.65.19.00-2.i686.000	A cumulative update #1 for Jboss-Quantum on CSR3 platform.
	Required to adjust cipher suites used by Jboss for HTTPs connections
cs1000-cs1000WebService_6-0-el6-7.65.19.00- 1.noarch.000	A cumulative update #1 for cs1000WebService on CSR3 platform.
cs1000-dbcom-el6-7.65.19.00-1.i686.000	Required to close MySQL TCP port on non-NRS systems *** PLEASE REFER TO SPECIAL INFO SECTION FOR MORE INFO ***
cs1000-emWeb_6-0-el6-7.65.19.00-1.noarch.000	Wrong DSCP values are silently corrected by the EM
cs1000-linuxbase-el6-7.65.19.00-3.i686.000	CS1000-CSR3: A cumulative update #1 for CSR3 Linux Base.
	CS1000-CSR3: Required to update timezone data on Linux Base for CSR3 to 2016g level *** PLEASE REFER TO SPECIAL INFORMATION SECTION FOR SPECIAL INSTRUCTIONS ***
	CS1000-CSR3: Required to update the master firewall configuration for support of QoS-marking for SIPLine *** PLEASE REFER TO SPECIAL INFO SECTION FOR MORE INFO ***
cs1000-mscAttn-el6-7.65.19.00-2.i686.000	A cumulative update #1 for mscAttn on CSR3 platform. *** PLEASE REFER TO SPECIAL INFO SECTION FOR MORE INFO ***
	IP ATTN: warning is seen in logs WARNING: OnCallCleared: Voip call failed! Call cleared due to loss of media flow. Not forcing disconnect! Can lead to Speechpath problems and/or IP ATTN application freeze. *** PLEASE REFER TO SPECIAL INFO SECTION FOR MORE INFO ***
cs1000-pass_harden-el6-7.65.19.00-3.i686.000	Critical cron jobs are not executed after root password expired
	The account locking policy is not well defined
	The new PAM configuration leads to login issues for internal and UCM users

SU ID	Description of Fixes included in Each SU
cs1000-pcap-el6-7.65.19.00-1.i686.000	CS1000-CSR3: Increase the maximal size of pcap files captured by pcapTool
cs1000-pd-el6-7.65.19.00-1.i686.000	LDAP sync failed via TLS port after a CS1K member was moved to a different security domain
cs1000-shared-pbx-el6-7.65.19.00-1.i686.000	itgCardShow shows negative values after 248 days
cs1000-tps-el6-7.65.19.00-1.i686.000	TPS coredump during IP set de-registration *** PLEASE REFER TO SPECIAL INFO SECTION FOR MORE INFO ***
cs1000-vtrk-el6-7.65.19.00-2.i686.000	A cumulative update #1 for vtrk on CSR3 platform. *** PLEASE REFER TO SPECIAL INFO SECTION FOR MORE INFO ***
	CS1000-CSR3: Wrong DSCP values are used for signaling traffic by Sip Line gateway *** PLEASE REFER TO SPECIAL INFO SECTION FOR MORE INFO ***
jre-1.6.0_151-fcs.i586.000	Upgrade of JRE to 6u131
	Upgrade of JRE to 6u141
	Upgrade of JRE to 6u151
kernel-2.6.32-696.el6.i686.000	CS1000-CSR3: Required to update kernel packages on Linux Base because of CVE-2016-5195 and multiple other fixes *** PLEASE REFER TO THE SPECIAL INFO SECTION FOR SPECIAL INSTRUCTIONS ***
	CS1000-CSR3: Required to update kernel packages on Linux Base because of CVE-2016-6828, CVE-2016-7117 and multiple other fixes *** PLEASE REFER TO SPECIAL INFO SECTION FOR MORE INFO ***
	CS1000-CSR3: Required to update kernel packages on Linux Base because of CVE-2016-10142 and multiple other fixes *** PLEASE REFER TO THE SPECIAL INFO SECTION ***
openssl-1.0.1e-48.el6_8.4.i686.000	CS1000-CSR3: Update openssl package on Linux Base because of CVE-2016-6304 *** PLEASE REFER TO SPECIAL INFORMATION SECTION ***
	CS1000-CSR3: Update openssI package on Linux Base because of CVE-2016-8610 *** PLEASE REFER TO THE SPECIAL INFO SECTION ***
submgr-2.3.0-22.noarch.000	When disassociating an account from a subscriber, the numbering info written to external AD (Active Directory) via LDAP sync, is not removed
	Failed to sync CP member on UCM standalone system

SU ID	Description of Fixes included in Each SU
tzdata-2016g-2.el6.noarch.000	CS1000-CSR3: Required to update tzdata package to 2016g level

Table 6: Special Instructions for EL6 SUs within Service Pack 9

SU ID	Special Instructions for Each SU
MPLR33773	Please note that installation of this patch requires a restart of all Avaya applications.
cs1000-bcc-el6-7.65.19.00-2.noarch.000	1. This SU requires cs1000-cs1000WebService_6-0-el6-7.65.19.00- 1.noarch.000 or a newer one to be installed on the same server. 2. After application of the patch, "Update database" should be performed on "Element Manager / Phones / Properties" page and then "Retrieve All Phones and Reconcile" operation should be performed for all sets configured on the server on "Element Manager / Phones" pages. All temporary files and cookies should be removed from Internet Explorer browser. 3. NOTE for CS1000/SMGR interworking usage: this patch is supposed to work along with SMGR 6.3.17 Hot Fix System_Manager_R6.3_FP4_SP17_HF_5415337.bin and or a newer one.
cs1000-Jboss-Quantum-el6-7.65.19.00- 2.i686.000	This SU introduces a new hardening module to control hardening levels for cipher suites used by Jboss for access to the Web UI.  The new default hardening level is medium. It is applied automatically during the SU installation. Please note that appropriate cipher suites can be incompatible with legacy Web browsers.  The low hardening level allows use of the legacy cipher suites that are not recommended for use anymore because of security concerns.  It is possible to switch between low and medium hardening levels with use of following commands:  harden jboss_web level low harden jboss_web level medium
cs1000-dbcom-el6-7.65.19.00-1.i686.000	The update introduces a new hardening module that can be used to open / close MySQL TCP port. Please check a following command for more info:  harden mysql help
cs1000-linuxbase-el6-7.65.19.00-3.i686.000	Please note that tzdata-2016g-2.el6.noarch.000 is required for this SU.
cs1000-mscAttn-el6-7.65.19.00-2.i686.000	This SU should be used when MPLR33231 or a suitable replacement is inservice on the Call Server.

SU ID	Special Instructions for Each SU
cs1000-tps-el6-7.65.19.00-1.i686.000	This SU should be loaded when MPLR32744 or a suitable replacement is inservice on the Call Server.
cs1000-vtrk-el6-7.65.19.00-2.i686.000	<ol> <li>This SU should be loaded when a deplist from SP7 or a newer one is inservice on the Call Server.</li> <li>If it is required to fix the issue with QoS-marking for SIPLine related traffic, please install cs1000-linuxbase-el6-7.65.19.00-3.i686.000 SU or a newer one before installation of this vtrk SU.</li> </ol>
kernel-2.6.32-696.el6.i686.000	1. Please note that a reboot is required after installation of this update. 2. cs1000-linuxbase-el6-7.65.19.00-1 SU or a newer one is required for proper installation.
openssl-1.0.1e-48.el6_8.4.i686.000	A reboot of the server is recommended after installation of this update because of necessity to restart system services and CS1000 applications.

## Table 7: Fixes Delivered to CSR3 SP3 for amsx64

Patches and SUs with RED fill have special Instructions which are documented in <u>Table 8</u>.

SU ID	Description of Fixes included in Each SU
cs1000-linuxbase-amsx64-7.65.19.00-5.i686.000	AMSX64-SP3: CS1000-CSR3: A cumulative update #1 for CSR3 Linux Base.
	AMSX64-SP3:CS1000-CSR3: Required to update timezone data on Linux Base for CSR3 to 2016g level *** PLEASE REFER TO THE SPECIAL INFO SECTION ***
	AMSX64-SP3: A cumulative update #2 for CSR3 Linux Base. *** PLEASE REFER TO THE SPECIAL INFO SECTION ***
	AMSX64-SP3: <b>amspatch</b> command does not work in case of AMS 7.6.0.1008. *** PLEASE REFER TO THE SPECIAL INFO SECTION ***
	AMSX64-SP3: Mandatory SUs are checked improperly if they are present in the SP bundle *** PLEASE REFER TO THE SPECIAL INFO SECTION ***
kernel-2.6.32-696.el6.i686.000	AMSX64-SP3: CS1000-CSR3: Required to update kernel packages on Linux Base because of CVE-2016-10142 and multiple other fixes *** PLEASE REFER TO THE SPECIAL INFO SECTION ***
openssl-1.0.1e-48.el6_8.4.i686.000	AMSX64-SP3: Update openssl package on Linux Base because of CVE-2016-8610 *** PLEASE REFER TO THE SPECIAL INFO SECTION ***
tzdata-2016g-2.el6.noarch.000	AMSX64-SP3:CS1000-CSR3: Required to update tzdata package to 2016g level

Table 8: Special Instructions for CSR3 SP3 for amsx64

SU ID	Special Instructions for Each SU
cs1000-linuxbase-amsx64-7.65.19.00- 5.i686.000	Please check following notes:  1. This SU must be installed prior a Service Pack. 2. tzdata-2016g-2.el6.noarch.000 is required for this SU. It can be installed after installation of this SU. 3. It is required to reconfigure NTP service with use of <b>ntpconfig</b> command to ensure that the system is not affected by CVE-2013-5211. The reconfiguration should be performed after installation of this SU once.
kernel-2.6.32-696.el6.i686.000	<ol> <li>Please note that a reboot is required after installation of this update.</li> <li>cs1000-linuxbase-amsx64-7.65.19.00-1 SU or a newer one is required for proper installation.</li> </ol>
openssl-1.0.1e-48.el6_8.4.i686.000	A reboot of the server is recommended after installation of this update because of necessity to restart system services and CS1000 applications.

## Table 9: Fixes Delivered to Non-CSR3 SP3 for amsx64

Patches and SUs with RED fill have special Instructions which are documented in <u>Table 10</u>.

SU ID	Description of Fixes included in Each SU
MPLR33771	Update openssl packages on Linux Base because of CVE-2016-2108 *** PLEASE REFER TO EXTERNAL NOTES FOR SPECIAL INSTRUCTIONS ***
kernel-2.6.18-419.el5.x86_64.000	AMSX64-SP3: Required to update kernel packages on Linux Base because of CVE-2016-1583, CVE-2016-5195 and BZ#1067708 *** PLEASE REFER TO THE SPECIAL INFO SECTION FOR SPECIAL INSTRUCTIONS ***
	AMSX64-SP3: Required to update kernel packages on Linux Base because of CVE-2016-7117 *** PLEASE REFER TO THE SPECIAL INFO SECTION FOR SPECIAL INSTRUCTIONS ***
	AMSX64-SP3: Required to update kernel packages on Linux Base because of CVE-2017-2634 and CVE-2017-6074 *** PLEASE REFER TO THE SPECIAL INFO SECTION ***

Table 10: Special Instructions for Non-CSR3 SP3 for amsx64

SU ID	Special Instructions for Each SU
MPLR33771	A reboot of the server is required after installation of this patch because of necessity to restart system services and CS1000 applications.
	Please note that uninstallation of the patch will not lead to recovery of previous openssl packages.
	If MPLR33331, MPLR33511, MPLR33554 or MPLR33695 are in-service, they should be removed first. A requested reboot can be skipped. After that MPLR33771 can be installed, and a system reboot can be performed at this point.
kernel-2.6.18-419.el5.x86_64.000	AMSX64-SP3: Required to update kernel packages on Linux Base because of CVE-2017-2634 and CVE-2017-6074 *** PLEASE REFER TO THE SPECIAL INFO SECTION ***

## Fixes delivered to MC32/MC32S Service Pack 9

- MPLR33713 "MGC reboot after seeing ELAN interface is not configured and VAPI -68003 return codes"
- MPLR33828 "Use of MPLR33713 on SMC can lead to a memory corruption"

## Table 11: Patches required for MC32/MC32S cards

Patch ID	Title	Patch
		Category
MPLR31815	Patch Manager fails to install Call Server / MC32S patch with special instructions.  Note: FOR SMC only: MPLR31815 is merged with MPLR32709  Special Instructions:  MPLR31815 should be installed before installation of any patch with special instructions	MC32S
MPLR31890	G729 codec not used for vgmc DSPs when G722 enabled *** Not applicable for MGC *** SEE SPECIAL INSTALLATION INSTRUCTIONS *** Special Instructions: MC32S reboot is required to take effect	MC32S
MPLR32431	Unable to login using SSH on VxWorks Call Server (CPPM, CPP4), MGC, MC32S, MC32  Special Instructions:  FOR MC32S: INI required for patch activation.  For SMC only:  Login to MC32 not using ssh connection(for example via Telnet) and perform the following:  SSHS_shutdown sshServerManagerServerStart  Note: The system is vulnerable to this problem until MPLR32431 is installed and activated.  The likelihood of occurrence of this vulnerability is quite low if IP Sec is disabled.	SMC, MC32S
MPLR32709	Patching commands do not work after special instruction patch is forced from service ***  NOT APPLICABLE FOR MGC/MC32S ***  Special Instructions:  MPLR32709 should be installed before installation of any patch with special instructions	SMC
MPLR32820	Abnormal QOS 99.9% packet loss alarms printed on MC32S *** Not applicable for MC32 ***	MC32S
MPLR33385	DTMF digits are not transferred in accordance with RFC2833 in case of a complex scenario	SMC, MC32S
MPLR33447	A leak of file descriptors is observed in case of some corruptions of rpt files.	MC32S

Patch ID	Title	
		Category
MPLR33564	Use of <b>macshow</b> command leads to issues with access to PROM	MC32S
MPLR33587	SECURITY: Required to eliminate VxWorks RPC security vulnerability (CVE-2015-7599)	
MPLR33611	dsplooptest fails with 'Enable Orig Fail' reason *** THIS PATCH IS NOT APPLICABLE TO MC32 ***	MC32S
MPLR33713	MGC reboot after seeing ELAN interface is not configured and VAPI -68003 return codes	MC32S
MPLR33828	Use of MPLR33713 on SMC can lead to a memory corruption *** THIS PATCH IS NOT APPLICABLE TO MGC/MC32S ***  Special Instructions:  It is recommended to reboot a card after installation of MPLR33828.  If MPLR33713 is already in-service it can be required to remove it from the disk firstly and reboot the card. After that it should be okay to proceed with installation of MPLR33828.	

#### Note:

- **1.** Because of issues with MPLR33713 in case of SMC, the patch was replaced by MPLR33828. Please check section for more info on the issue and steps to replace MPLR33713 if it is already installed on an SMC card.
- **2.** Please note that MPLR33828 is not included into the deplist archive either. So it is required to install the patch manually if a corrected version of the fix from MPLR33713 is required.

Table 12: Fixes Delivered for MGC Service Pack 9

Loadware	Fix delivered
MGCCDC10	1. MPLR33713 - CS1000-7466
	MGC reboot after seeing ELAN interface is not configured and VAPI -68003 return codes
	2. MPLR33762 - CS1000-7541
	UDT packs can become stuck after MGC reboots because of MPLR32998
	3. MPLR32427 - wi01166564
	SRPT308 is printed out on a Call Server every hour
	4. MPLR33775 - CS1000-7578
	Interdigit DTMF timeout is less by 20ms on MGC TDS
	5. MPLR33789 - CS1000-7628
	MGC should send out a gratuitous ARP during a switchover to redundant links

# **Known Limitations and Operational Assistance**

#### Common Server R3 limitations

- HP DL360 G9 (CSR3) server is the only supported server to run new CSR3 specific Linux Base system and appropriate CS1000 applications.
- CoRes Call Server is not supported on the new (CSR3) base system.
- Primary and secondary NRSs cannot be deployed on systems with different base systems (non-CSR3 and CSR3 ones) because of possible issues with data replication.
- CS1000 applications can only be deployed on applicable Linux Base systems. Different application sets are provided for systems based on non-CSR3 and CSR3 Linux Base.
- System backups prepared on a system with the old (non-CSR3) base system can be restored on a system with the new (CSR3) base system. The reverse operation is not possible.
- AMS 7.0 cannot be deployed on the new (CSR3) base system. Note also that AMS 7.0 is End of Manufacture
   Support for software and customers are recommended to upgrade to latest Avaya Media Server (AMS) 7.6.
- ISO management is restricted on Avaya CPPM platform (the original non-CSR3 based ISO is used with no option to upload more or delete existing) to allow for known storage space limitation.

## Web browsers support

- 1. The currently supported browsers are as follows:
  - Microsoft Internet Explorer 11.x
  - Mozilla Firefox 48.0, 49.0 or 50.0
- **2.** The recent changes in a list of allowed cipher suites used for access to the Web interface can cause access issues to UCM (in case of non-SMGR configurations) or EM.

In such a case it is recommended to upgrade the used Web browsers or switch to supported versions. If this is not possible, it can be acceptable to enable the legacy cipher suites with use of **harden jboss\_web level low** command as a temporary workaround.

**3.** A number of browsers discontinued support of Oracle Java NPAPI plugin. As result it can be impossible to preconfigure a CS1000 CoRes Call Server with a non-default database in the deployment manager. In such a case it is advised to preconfigure the CoRes Call Server with the default database firstly and recover the custom database backup after the applications are deployed or use Microsoft Internet Explorer that still supports Java plugins.

Mozilla FireFox discontinued support of NPAPI plugins since release 52. Please check a following link for more info.

https://www.java.com/en/download/help/firefox\_java.xml

Google Chrome discontinued support of NPAPI plugins since version 45. Please check a following link for more info.

https://www.java.com/en/download/fag/chrome.xml

## AMS 7.0 EM access issue

It is known that AMS 7.0 Element Manager is not accessible when SP9 is installed on the base system. It is a known limitation and customers are recommended to upgrade to Avaya Media Server (AMS) 7.6.

Please check PSN 3499 for more info on the AMS 7.0 life stage.

## MPLR33713 related corruption in case of SMC

It was found that use of MPLR33713 can lead to a lock of the patching subsystem and memory corruptions in case of SMC (MC32) platform. Other VxWorks based CS1000 platforms are not affected and no actions are required.

In case of SMC it is recommended to replace MPLR33713 by MPLR33828. The safest procedure is explained below.

- 1. Ensure that the problem card is not used for call processing it can be required to disable appropriate VGW channels at Id 32 on a Call Server.
- 2. Transfer MPLR33828 into /u/patch directory on the affected card.
- 3. Access the IPL shell over SSH or a serial connection, after that please access the VxWorks shell with use of **vxshell** command.
- 4. Remove the problem patch from the disk with use of rm command like a following one: rm "/C:/u/patch/p33713 1.lsa"
- 5. Reboot the card with use of reboot command at the VxWorks shell or with use of the reset button on card's faceplate.
- 6. When the card is up after the reboot, please access the IPL shell and install MPLR33828 as usually.
- 7. After that it is recommended to reboot the card again. This can help to minimize risks of the heap corruptions.

If MPLR33713 is not installed, it will be enough to install MPLR33828 and reboot the card after the patch installation. The SMC deplist was not updated additionally because MPLR33713 was not a part of the deplist anyway.

Please also note that MPLR33828 addresses one more patching related issue, so it is recommended to install it even if the issue fixed by MPLR33713 is not considered as a critical one.

#### Common Server R3 SSH access issue

It was found that serviceability update cs1000-pass\_harden-el6-7.65.19.00-2.i686.000, which was introduced along with SP9 for Common Server R3, can cause following issues:

- SSH access issues for users who use UCM accounts (like 'admin' account, admin2 and root accounts are not affected.)
- It is impossible to upload / sync new IP phone firmwares or MC32S loadwares.

cs1000-pass\_harden-el6-7.65.19.00-3.i686.000 was prepared as a replacement for the problem update. The service pack for CSR3 was updated accordingly.

Please use the updated service pack for CSR3 when it is required. If it is required to fix the noted issues on a CSR3 machine where SP9 is already installed, it should be sufficient to install cs1000-pass\_harden-el6-7.65.19.00-3.i686.000 instead of cs1000-pass\_harden-el6-7.65.19.00-2.i686.000.

#### CND Insecure access in SMGR 7.1

The insecure access to the Common Network Directory (CND) is denied since SMGR 7.1. Customers are advised to adjust the configuration to use the secure mode for access to CND instead.

#### CS1000 Deployment Manager access issues in case of SMGR 7.1

It was discovered that the CS1000 Deployment Manager can become inaccessible because of a default active session limit value.

This issue is being investigated and it should be addressed in later hot fixes for SMGR 7.1. The current workaround is to increase the limit when the issue is observed. This can be done in a following way.

- 1. Go to Communication Server 1000 -> Security -> Policies page.
- 2. Click Edit button in 'Session Properties' section and set 'Maximum Sessions Per User' to 25.

## CS1000 Security Domain design changes in case of SMGR 7.1

The improved security hardening in case of SMGR 7.1 requires use of SMGR admin accounts for joining of CS1000 VxWorks based targets (like VxWorks based Call Server, Media Gateways, Media Cards) into the CS1000 security domain.

Please note that this change does not affect Linux based CS1000 targets.

The required SMGR admin account can be created as it is explained below.

1. In SMGR Dashboard open Users -> Administrators and click Add.

- 2. Enter User ID, full name and password and click Commit and Continue.
- 3. Select System Administrator role and click Continue.
- 4. Login under new user to SMGR GUI.
- 5. In Settings -> Manage Command Line Access click Enable.
- 6. Use this user for joining all VxWorks targets.

#### SMGR 7.1 hot fix installation

#### Download

The hot fix can be downloaded from the ESPL or PLDS portals. Please check <u>an appropriate table</u> in this document for more info.

## Backup before applying the patch

#### Recommended

#### Patch install instructions

<u>IMPORTANT:</u> If System Manager installation is a Geo-Redundancy enabled deployment, Geo-Redundancy should be disabled, the patch should be applied to both Primary and Secondary System Manager systems, and then re-enable Geo-Redundancy.

Note: This patch MUST be applied on Avaya Aura® System Manager 7.1.

# Follow the instructions below to install the patch through System Manager CLI for Virtualization Enablement (VMWare) environment or Avaya Virtualization Platform based deployment:

- 1. Take a snapshot of System Manager virtual machine.
  - Note: This activity might impact the service.
- 2. Copy the patch installer file (**System\_Manager\_R7.1.0.0\_S11\_HF\_710006832.bin**) to the System Manager server under the /swlibrary/ directory.
- 3. Access the System Manager virtual machine CLI using the user that was configured during 7.1 OVA installation.
- 4. Verify md5sum of the bin file with the value mentioned on PLDS (353825842FEDCB4AAF11ED7D346C8576)
- 5. Run the patch installer using the following command:
  - > SMGRPatchdeploy <absolute path to

System\_Manager\_R7.1.0.0\_S11\_HF\_710006832.bin file>

**Note:** you will be prompted to accept the EULA. You must accept the EULA in order to install the patch.

- 6. Wait for the system to execute the patch installer and display the installer prompt.
- 7. Log on to System Manager Console, and verify whether the System Manager UI is displayed correctly.
  - On the top right corner click on the icon and then select the "About" link.
     Verify that the system displays the version information in the following format:
     System Manager 7.1.0.0
     Build No. 7.1.0.0.1125193
    - Software Update Revision No: 7.1.0.0.116832
- 8. Remove the hot fix file (**System\_Manager\_R7.1.0.0\_S11\_HF\_710006832.bin**) from the /swlibrary/ directory once the patch has been successfully deployed.
- 9. Remove the snapshot taken in step #1 once all functionality has been verified. **Note**: This activity might impact the service.

Service-interrupting?

Yes. During the patch installation the System Manager services (web access to System

Manager) will be disrupted for approximately 30+ minutes.

#### Verification

To verify the successful installation Patch:

- Log on to System Manager Console.
- On the top right corner click on the icon and then select the "About" link. Verify that the system displays the version information in the following format:

System Manager 7.1.0.0 Build No. - 7.1.0.0.1125193

Software Update Revision No: 7.1.0.0.116832

#### Failure

In case of issues with the patch, you can:

- 1. Retry the action. Carefully follow the instructions in this document.
- 2. Contact Avaya Support, with following information: Problem description, detailed steps to reproduce the problem, if any and the release version in which the issue occurs

#### Patch rollback instructions

If System Manager is on VMWare deployment so revert the snapshot taken prior to patch installation.

In case if you still have issues with the patch rollback, you can:

1. Contact Avaya Support, with following information: Problem description, detailed steps to reproduce the problem, if any and the release version in which the issue occurs.

# **Avaya and 3rd Party Software License Agreements**

Please reference the following link for the Avaya Software License agreement and 3rd Party Software License agreements: http://support.avaya.com/LicenseInfo/

http://support.avaya.com/ThirdPartyLicense/

In order to comply with the conditions of use needed to obtain a blanket authorization to distribute Linux OSS along with its corresponding binaries the following image has been made available. There is no need to download this image.

PLDS hyperlink	Description	File Name	Size (Mb)	MD5 Checksum
CS1K0000250	Linux el5	LinuxSource_7.6.zip	600.25	2EC474941238A46DEB69FE14C6BB152F
<u>CS1K0000326</u>	Linux el6	LinuxSource_7.6_el6.zip	615.12	276F6361663FDE28A16386F12AEBAD42

# **Product Support and Correction Notices**

It is highly recommended that you read the Product Support and Correction Notices for the latest information on product changes.

To read a PSN or PCN description online:

- Go to the Avaya Support website at <a href="http://support.avaya.com">http://support.avaya.com</a>.
- On the main menu, click **Downloads and Documents**.
- In the Enter Your Product Here field, enter Communication Server 1000
- In the Choose Release field, click 7.6.x.
- Click **Documents**.
- Check Product Support Notices and Product Correction Notices.
- Click Enter.
- To open a specific PSN or PCN, click the PSN or PCN title link.

# **Technical support**

Avaya Technical Support provides support for CS1000 Release 7.6

In case you find any problems with CS1000 Release 7.6:

- Retry the action. Carefully follow the instructions in the printed or online documentation.
- See the documentation that ships with your hardware for maintenance or hardware-related problems.
- Note the sequence of events that led to the problem and the exact messages that the system displays. For more information, see the troubleshooting section of the Avaya product documentation.

If you continue to have problems, contact Avaya Technical Support using one of the following methods:

- Log on to the Avaya Support website at <a href="http://support.avaya.com">http://support.avaya.com</a>.
- Call or send a fax message to Avaya Support on one of the telephone numbers in the Support Directory listings
  on the Avaya Support website.

Using Avaya Global Services Escalation Management, you can escalate urgent service issues. For more information, see the list of Escalation Contacts on the Avaya Support website.

Before contacting Avaya Support, keep the following information handy:

- Problem description.
- Detailed steps to reproduce the problem, if any.
- The release version in which the issue occurs.

#### **Contact support tasks**

Avaya Support might request for email notification files for analysis of your application and the application environment.

For information about patches and product updates, see the Avaya Support website at http://support.avaya.com

# **Appendix A: Detailed Release 7.6 SW and Loadware Lineups**

The online Compatibility Matrix is recommended for Communication Server 1000 Release 7.6 interworking with the Avaya Aura® portfolio in particular. This can be accessed via the Avaya Support Portal at: https://secureservices.avaya.com/compatibility-matrix/menus/product.xhtml

PLEASE NOTE that latest interop information for Service Pack 9 is included in the "Notes section" under Communication Server Release 7.6.7 (i.e. SP7).

R7.6 Service Pack 9 aligns with Avaya Aura® 6.2 FP4 as well as Avaya Aura® 7.0 and Avaya Aura® 7.1 – please reference PSN 3995 (CS1000 interop with Avaya Aura) for ongoing updates.

System Manager 6.3.19, 7.0.1 and 7.1

Session Manager 6.3.19, 7.0.1 and 7.1

Presence Services 6.2.7, 7.0.1 and 7.1

Communication Manager 6.3.16, 7.0.1 and 7.1

Core Software Element	Version Number
Unified Communications Manager	7.65.16. version (02.30.0114.00)
Call Server	X210765P
PSWV	100
Linux Base & Applications	7.65.16
Subscriber Manager	submgr-2.3.0-22
IP Media (AMS 7.0 Element) (included in Linux image)+	7.0 (7.0.0.623)
QFE-platform 1-12 patches and QFE-EM 1 patch	
(Note that AMS 7.0 is end of software support as per PSN 3499)	
IP Media (AMS 7.6 image)	7.65.16.26 (7.6.0.1008)
MC32S	7.65.17
MC32S Gold	6.00.15
MC32S Boot	6.00.15

Digital Set Firmware	Version Number	RELEASED WITH SP9
3902	84	
3903	91	
3904	94	
3905	94	

IP Client Model Number	UNIStim Firmware ID	UNIStim Firmware <sup>1</sup>	SIPLine Firmware <sup>2</sup>
IP Phone 2004 Phase 0/1 <sup>3</sup>	0x00 (0602)	B76	-
IP Phone 2004 Phase 2 <sup>3</sup>	0x02 (0604)	DCO	-
IP Phone 2002 Phase 1 <sup>3</sup>	0x01 (0603)	B76	-
IP Phone 2002 Phase 2	0x02 (0604)	DCO	-
IP Phone 2001 Phase 2	0x02 (0604)	DCO	-
IP Audio Conference Phone 2033⁴	0x10 (2310)	S96 / S99	-
IP Phone 2007 Phase 2	0x21 (0621)	C96	-
IP Phone 1110	0x23 (0623)	C96	-
IP Phone 1120E	0x24 (0624)	C96	SIP1120e04.04.29.00
IP Phone 1140E	0x25 (0625)	C96	SIP1140e04.04.29.00
IP Phone 1150E	0x27 (0627)	C96	-
IP Phone 1165E	0x26 (0626)	C96	SIP1165e04.04.29.00
IP Phone 1210	0x2a (062A)	C96	-
IP Phone 1220	0x2a (062A)	C96	SIP12x004.04.29.00
IP Phone 1230	0x2a (062A)	C96	SIP12x004.04.29.00
B179 SIP Conference phone <sup>5</sup>	-	-	SIP 2.4 SP1

#### Note:

- **1.** Please check <u>'UNIStim Software Release 5.5.8 for 11xx/12xx/2007 IP Deskphones'</u> download page for more info on the latest supported release. The <u>currency file</u> was updated accordingly.
- **2.** Please check <u>'Software Release 4.4 Service Pack 7 for 1100/1200 Series IP Deskphones'</u> download page for more info on the latest supported release.
- **3.** Phase 0 and Phase 1 IP phones are not supported in Release 7.6. Note: Phase 0 and Phase 1 registration to the LTPS is not blocked.
- **4.** Please check <u>'2033 IP Conference Phone Software 2310S99'</u> download page for more info on the latest supported release.
- 5. B76 is at End of life

MGC Loadware	X21 0765P PSWV100	RELEASED WITH SP
CSP	DC06	DC10
MSP	AB02	
APP	BA18	
FPGA (MGCF)	AA22	
воот	BA18	
DSP1	AB07	
DSP2	AB07	
DSP3	AB07	
DSP4	AB07	
DSP6	AB07	
Other Loadware		
UDTC	AB31	
MGP	1.01.38	
FIJI	V29	

	X21 0765P
LOADWARE	PSWV100
LCRI	LOADAA02
XNET	LOADAC23
XPEC	LOADAC45
FNET	LOADAA07
FPEC	LOADAA10
MSDL	LOADAJ73
ASYN (SDI)	LOADAH51
DCH1 (DCH)	LOADAA72
MLNK (AML)	LOADAK81
BRIL	LOADAK83
BRIT	LOADAK82
MISP	LOADAJ71
МРНА (МРН)	LOADAH51
BRSC	LOADAJ71
BBRI	LOADAH54
PUPE (PRIE)	LOADAA88
BRIE	LOADAK90
ISIG	LOADAA33
SWE1	LOADBA53
UKG1	LOADBA51
AUS1	LOADBA49
DEN1	LOADBA48
FIN1	LOADBA49
GER1	LOADBA54
ITA1	LOADAA54
NOR1	LOADBA49
POR1	LOADBA49
DUT1	LOADBA50
EIR1	LOADBA49
SWI1	LOADBA53
NET1	LOADBA48
FRA1	LOADBA52
CIS1	LOADBA48
ETSI	LOADBA48
SPA1	LOADBA51
BEL1	LOADBA49
E403	LOADBA07
N403	LOADBA05
JTTC	LOADAC08
TCNZ	LOADAA13

	X21 0765P	
LOADWARE	PSWV100	
AUBR	LOADAA14	
AUPR	LOADAA04	
HKBR	LOADAA06	
HKPR	LOADAA08	
SING	LOADAA15	
THAI	LOADAA07	
NI02	LOADAA26	
T1IS	LOADAA10	
T1ES	LOADAA09	
ESGF	LOADAC30	
ISGF	LOADAC31	
TEGF (ESGFTI)	LOADAC29	
TIGF (ISGFTI)	LOADAC31	
INDO	LOADAA06	
JAPN	LOADAA16	
MSIA	LOADAA04	
CHNA	LOADAA04	
INDI	LOADAA03	
PHLP	LOADAA02	
TAIW	LOADAA03	
EAUS	LOADAA02	
EGF4	LOADAC14	
DCH3	LOADAA10	
PUP3	LOADAA15	
T1E1	LOADAA19	
DITI	LOADAA40	
CLKC[NTRB53]	LOADAA20	