

Communication Server 1000

Release 7.6 Service Pack 8

Release Notes

Issue: 1.3

October 2016

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Revision history

Issue	Date	Reason for Reissue
1.0		Initial version.
1.1	29th July 2016	Updated with a number of changes: - Minor changes in 'Linux Service Pack Installation Special Instructions' section. - Removed checksums for Call Server and Media Card deplists, since they are different for each download. - Corrected vtrk SU version. It should be cs1000-vtrk-7.65.16.23-104.i386.000 instead of cs1000-vtrk-7.65.16.23-99.i386.000. - Added information on BCC issue in SP8.
1.2	11th October 2016	Updated the Call Server patch list with a number of changes because of a required respin: - Replaced MPLR33572 by MPLR33737. - Replaced MPLR33418 and MPLR33687 by MPLR33736. - Removed MPLR33704. Details on the respin can be found in 'Installing the Service Pack' section. Introduced some other minor changes.
1.3	13th October 2016	New section added: 'PLUGIN 227 moved to PLUGIN 400' Corrected a date for the previous reissue.

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Introduction

This Release Note profiles information about installation downloads and the supported documentation of Communication Server 1000 7.6 GA Release and Service Pack 8. This Release Note also contains important information about new features added to Release 7.6, fixes included in Service Pack 8, 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://avaya.my.salesforce.com/sfc/servlet.shepherd/document/download/069a0000002k1b7AAA

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://support.avaya.com/CompatibilityMatrix/Index.aspx

The Communication Server 1000 Release 7.6 product compatibility matrix is located on Avaya's http://support.avaya.com site under the **Overview** content type in the Communication Server 1000 Release 7.6 Downloads & Documents section.

What's new in CS1000 Release 7.6 SP8

Please ensure you review the section on Known Limitations and Operational Assistance in this document before proceeding to deploy Service Pack 8.

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 8 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 still being investigated.

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

CPPM with CS1000 Linux Base	CPMG, CPDC, COTS or Common Server R1/R2 with CS1000 Linux Base	Any server with AMS x64 load installed
kernel-2.6.18-409.el5.i686.000	kernel-PAE-2.6.18-409.el5.i686.000	kernel-2.6.18-409.el5.x86_64.000

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 SP8 for the ordinary Linux Base or SP2 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 sploud. The appropriate kernel file will then be selected automatically depending on processor type.

Common Server 3 (CSR3) support

The Common Server 3 program is a technology refresh driven by the lifecycle of the Intel processor. The current Common Server 2 (306202 – HP DL360 G8) goes End of Sale in June 2016. It is replaced by Common Server 3 (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 will contain "el6" in the file name. The old images will not install on the new Common Server 3. Likewise, the new images are not correct for the older server.

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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 or nortel-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.)

Please note that there are currently not an SP and serviceability updates for CSR3 targets. All current fixes were already embedded into the provided images.

AMS upgrade

Service Pack 8 for CS 1000 R7.6 is accompanied by Service Pack 2 for AMS 7.6 for CS 1000. The update includes a number of security fixes for the base system and the new AMS 7.6 build that provides a number of improvements, security and bug fixes.
AMS build was updated to 7.6.0.1008 on amsx64.
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.

Security vulnerabilities resolved with SP8

- A patch for a VxWorks RPC security vulnerability was released for VxWorks based targets.
- Oracle JDK package was update to 6u115 because of following items: CVE-2015-4803, CVE-2015-4872, CVE-2015-4893, CVE-2015-4911, CVE-2015-7575, CVE-2016-0466, CVE-2016-0483, CVE-2016-0695, CVE-2016-3425 and CVE-2016-3427.
- OpenLDAP and CND packages were updated because of CVE-2015-6908.
- OpenSSL package was updated because of CVE-2016-0797.
- libssh2 package was updated because of CVE-2016-0787.
- kernel packages were updated because of CVE-2015-5364 and CVE-2015-5366.
- glibc and nscd packages were updated because of CVE-2013-7424.

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. The intent is to move the MCM component to End of Manufacturing Support for software in the subsequent R7.6 Service Pack 8 in CY2016. Please refer to PSN 3499 (https://downloads.avaya.com/css/P8/documents/100151321).

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 266 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 SP is updated on an existing CS1000 7.6, to SP8, 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.

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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 Appendix 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 8, 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 Description	File Name	Size (Mb)	MD5 Checksum
Release 6.0 Pre-Upgrade SU & Service Pack				
Linuxbase SU	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-Upgrade				
Linuxbase SU	Linuxbase SU	nortel-cs1000-linuxbase-7.00.20.10-10.i386.000.ntl	1.25	5383E5E5B115E8DA0F512DCF84BFE41C
Release 7.5 Pre-Upgrade SU & Service Pack				
Linuxbase SU	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

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Enhancement introduced in SP7, that may be useful as part of SP8 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.**

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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 8. Note that a System Manager hot fix is required in case of Avaya Aura® System Manager 6.3.17 or 7.0.1.

Please note that cs1000-bcc-7.65.16.23-16.i386.000 serviceability update must be installed separately after SP8 installation.

Please note that the Call Server deplists for Service Pack 8 were respun because of following changes.

- **MPLR33572 was replaced by MPLR33737 because of Group Hunt List issues.**
- **MPLR33687 was replaced by MPLR33736 because of ld 135 access issues and Call Server Warm Start issues.**
- **MPLR33704 was removed because of related CPND issues.**

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 6.3.17 or SMGR 7.0.1 load.

SMGR 6.3.17 - System_Manager_6.3.17_r5404616.bin file from https://support.avaya.com/downloads/download-details.action?contentId=C20163141730391230_6&productId=P0541&releaseId=6.3.x

For more information refer to System Manager 6.3.17 Release Notes
https://downloads.avaya.com/css/P8/documents/101020643

For more information regarding the latest patches for System Manager 6.3.17 refer to a product support notice
https://downloads.avaya.com/css/P8/documents/101027592

SMGR 7.0.1 - System_Manager_7.0.1.0_r701064859.bin file from https://support.avaya.com/downloads/download-details.action?contentId=C2016591759478010_7&productId=P0541&releaseId=7.0.x

For more information refer to System Manager 7.0.1 Release Notes
https://downloads.avaya.com/css/P8/documents/101023883

For more information regarding the latest patches for System Manager 7.0.1 refer to a product support notice
https://downloads.avaya.com/css/P8/documents/101027589

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 8 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 8 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 8 on Primary UCM server pay attention to the following:

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After installing Service Pack 8 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 8 deployment on Primary UCM will **not** be affected.

To join older release members after Service Pack 8 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 8 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.

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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" folder for CPPM machine.
   B. Download CS image 765q_pp4.zip archive and put it to "/u/pub" folder 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" folder for CPPM machine.
   B. Download CS image 765q_pp4.zip archive and put it to "/u/pub" folder 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**

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- 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

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Call Server Service Pack (DepList) Installation Special Instructions

Several Call Server patches have special instructions. Please refer to Table 2 for details.

Linux Service Pack Installation Special Instructions

Instructions for Upgrade/Migrations:

The Service Pack 8 installation sequence for **Primary** Linux server **after** upgrade/migration to 7.65.16 load excluding CSR3 platform:

- Install the latest linuxbase SU (cs1000-linuxbase-7.65.16.23-30.i386.000.ntl)
- Install the latest Jboss SU (cs1000-Jboss-Quantum-7.65.16.23-7.i386.000.ntl)
- Install the latest patchWeb SU (cs1000-patchWeb-7.65.16.23-2.i386.000.ntl)
- Install the latest dmWeb SU (cs1000-dmWeb-7.65.16.23-5.i386.000.ntl)
- Install the latest tzdata SU (tzdata-2015a-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 8 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 linuxbase SU (cs1000-linuxbase-7.65.16.23-30.i386.000.ntl)
- Install the latest tzdata SU (tzdata-2015a-1.el5.i386.000.ntl)
- Perform applications deployment
- Install the Service Pack

The service Pack 8 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 linuxbase SU (cs1000-linuxbase-7.65.16.23-30.i386.000.ntl)
- Install the latest Jboss SU (cs1000-Jboss-Quantum-7.65.16.23-7.i386.000.ntl)
- Install the latest patchWeb SU (cs1000-patchWeb-7.65.16.23-2.i386.000.ntl)
- Install the latest dmWeb SU (cs1000-dmWeb-7.65.16.23-5.i386.000.ntl)
- Install the latest tzdata SU (tzdata-2015a-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-7.65.16.23-7 is applied before configuring and joining member or backup server to security domain.

After installing Service Pack 8:

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”.

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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 8 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
- **tzdata**-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 8 installation sequence for Member Linux servers (using Primary Patch Manager):

- cs1000-**linuxbase**-x.xx.xx.xx-xx
- **tzdata**-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 8 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
- **tzdata**-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)

Special Instructions for SUs contained within Service Pack

There are several SUs which contain special Instructions. Please refer to Table 4 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

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- Extract and Install the latest linuxbase SU (cs1000-linuxbase-7.65.16.23-30.i386.000.ntl)
- Install Service Pack

AMS SP Installation Special Instructions for AMS 7.6

AMS 7.6 Service Pack 2 installation sequence:

- Install the latest linuxbase SU (cs1000-linuxbase-amsx64-7.65.16.26-5.i386.000)
- Install Service Pack

After installing AMS 7.6 Service Pack 2 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.

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CS1000 Download and Installation

Download the files listed under **Communication Server 1000 7.6 Service Pack 8/Deplist and AMS QFEs** files from the Avaya ESPL Web site https://espl.avaya.com. These files will be required during the installation of Release 7.6 Service Pack 8.

Also note that a System Manager 6.3.17 or 7.0.1 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 8 file listing & Avaya Support 7.6 Software Images

ESPL hyperlink	Description	File Name	Size (Mb)	MD5 Checksum
Communication Server 1000 7.6 Service Pack 8/Deplist, AMS QFEs and DSP loadware. **Note: Links below open only the main page. Select Version 7.6 and specify the content to be downloaded.** **Service Pack 8 New Content.**				
7.6 Linux Base ISO for CSR3	Linux Base ISO for CSR3	cs1000-linuxbase-el6-7.65.19.00.iso	850.39	AA5BC82ECE79244742381D87B939F157
7.6 Linux Apps for CSR3	Linux Apps NAI for CSR3	cs1000-linux-el6-76519-P100-M00.nai	825.96	CE1E5798962761E258953A1A51BB2BC2
Service Pack 8	7.6. Service Pack 8	SP_7.6_8.zip	1199.79	4855CC9C6CCC7DFBCADF8829D1A241C9
CS deplists SP8	CPPM deplist	CPM_7.6_8.zip	1.58	-
	CPP4 deplist	PP4_7.6_8.zip	1.59	-
	CPPL deplist	CPL_7.6_8.zip	1.55	-
MGC and UDT loadware	MGC and UDT loadware	MGC_UDT_loadware.zip	4.13	8778434DF2B2D0C51A0BD91B282993F8
SMC deplist	SMC deplist	SMC_7.6_8.zip	0.01	-
MC32S deplist	MC32S deplist	MC32S_7.6_8.zip	0.02	-
7.6 AMS X64 ISO for CSR3	AMS_X64 ISO for CSR3, AMS 7.6	cs1000-linuxbase-amsx64-7.65.19.00.iso	690.72	C8C884C5F08571E9773A60DC3D1AAA90
AMS X64 SP2	AMS_X64 Service Pack 2, AMS 7.6	SP2_amsx64_21042016.ntl	324.88	6BC29D854610722F77CB3952A29789B0

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ESPL hyperlink	Description	File Name	Size (Mb)	MD5 Checksum
Mandatory System Manager hot fixes for SMGR releases 6.3.17 and 7.0.1 **Note: These are available from PLDS**				
SMGR6317005	SMGR 6.3.17 hot fix Patch2, r5415180.bin	System_Manager_6.3.17_Patch2_r5415180.bin	243.27	B6B0726A834F5113B3777FE66A6454C6
SMGR7010006	SMGR 7.0.1 hot fix, Patch1, r701065071	System_Manager_7.0.1.0_Patch1_r701065071.bin	476.77	3E2DC8958431D38B8F7EF79162135319
The following SUs must be installed prior to installing the 7.6 Linux Service Pack 8 **Note: These are available from ESPL**				
cs1000-linuxbase-7.65.16.23-30	LinuxBase (install First!)	cs1000-linuxbase-7.65.16.23-30.i386.000.ntl	2.61	B12B94142AB18BF934EA0403AAEB589F
cs1000-Jboss-Quantum-7.65.16.23-7	Jboss-Quantum (install Second!)	cs1000-Jboss-Quantum-7.65.16.23-7.i386.000.ntl	237.57	0483FCED7ED9E734EA6A07801CFA492C
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
tzdata-2015a-1	tzdata (install Fifth!)	tzdata-2015a-1.el5.i386.000.ntl	0.55	1A5D14EBF8E682289E6671D277DC4640
The following SUs must be installed prior to installing the 7.6 AMS_X64 Service Pack 2 **Note: These are available from ESPL**				
cs1000-linuxbase-amsx64-7.65.16.26-5	LinuxBase (install First!)	cs1000-linuxbase-amsx64-7.65.16.26-5.i386.000.ntl	1.25	720F548F7E87DF31024E02E886774FF1
The content carried forward from previous SPs				
CS image	CPPM	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

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ESPL hyperlink	Description	File Name	Size (Mb)	MD5 Checksum
Communications Server 1000 7.6 S/W files **Note: In PLDS, select Application: Communication Server 1000 and 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
CS1K0000306	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
Communication Server 1000 7.6 BIOS upgrade files **Note: In PLDS, select Application: Communication Server 1000 and 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
Communication Server 1000 7.6 Standalone Tools and Applications **Note: These are available from ESPL**				
DECT MANAGER	Dect Manager-1.01.11335	DectManagerSetup_1.01.11335.exe	101.93	CAE3C113D5B9A5E4DDF3A5C607736CC4
DBA TOOLKIT	DBA Toolkit version 2.0.0.9	DBA Setup.exe	2.91	E8E4854574E0C023AE7F9344692B5435
HEALTH CHECK MONITOR	Health Check Monitor	HealthCheck_v1.02.07.00.msi	4.68	4ECFC629957651A09FE36E03C03EE0D9

Note: MCM is End of Manufacturer Support for Software in R7.6 SP8.

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Problems fixed in Avaya CS1000 Service Pack 8

The following are the fixes delivered in Avaya CS1000 7.6 Service Pack 8 software release. These fixes are in addition to the Release 7.6 software load.

Table 1: Fixes delivered to CS1000 Call Server Service Pack 8.

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

Patch Id	Previous Version	Patch Title	CPL	PP4	CPM
MPLR33526		CS1000 AML Unringing message is not presented to AACC side.	Y	Y	Y
MPLR33531		TRO doesn't work when making blind transfer call over SIP trunks	Y	Y	Y
MPLR33560		Whenever a single dch is disabled it brings down the whole msdl card and the PRI Gateway as 2 DCH Cards	Y	Y	Y
MPLR33561		Calls made internally and then transferred across H323 and SIP. There is not the speechpath	Y	Y	Y
MPLR33563		SIPL (SIP LINE) set, service change causes set to be stuck in MBSY state	Y	Y	Y
MPLR33566	MPLR33470 MPLR33097	MERGE: 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)	Y	Y	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)	Y	Y	Y
MPLR33574		INI after BERR0705 from GF_UTILITY. Related to PRI / QSIG.	Y	Y	Y
MPLR33575	MPLR33518	MERGE: 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	Y	Y
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)	Y	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	Y	Y	Y
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 ***	Y	Y	Y
MPLR33587		SECURITY: Required to eliminate VxWorks RPC security vulnerability (CVE-2015-7599)	Y	Y	Y
MPLR33596		Many MEM221 due to abuse of the CACFAREND structure	Y	Y	Y

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Patch Id	Previous Version	Patch Title	CPL	PP4	CPM
MPLR33597		During consultative transfer for SIPL set with MCR DN configured as 2nd DN bandwidth usage is updated incorrectly, BUG330, BUG387.	Y	Y	Y
MPLR33598		PERIODICAL CDR-TICKET FOR THE HOSPITAL APPLICATION *** NOTE: ALSO KNOWN AS ASCOM PATCH 206 *** Use MPLR31224 to activate the functionality.	Y	Y	Y
MPLR33605	MPLR33538	MERGE 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 ***) + MPLR33419 (Analog set can't dial Phantom DN) + MPLR33345 (CS1000 doesn't send AML/MLS Transfer Complete message when POM Dialler completes an external transfer) + MPLR33391 (Outgoing CLID is updated twice by CMDB) + MPLR30502 (PI: Remove "+" sign before incoming international number on SIPLine phones. MPLR33449 is required to activate PI functionality.)	Y	Y	Y
MPLR33606	MPLR33322	MERGE: MPLR33606 IPRAN resources stop working + MPLR33322 (DISA call is not routed to attendant after IPRAN)	Y	Y	Y
MPLR33614		INI after BERR0705(Exception 14 in Task "tSL1") in procedure CALLED_PARTY_#.	Y	Y	Y
MPLR33616		When calls come in over SIP trunks while a DN apperance in a down MG loop is off line. Call fails.	Y	Y	Y
MPLR33617		Progress IE with unexpected content causes tandem QSIG/EuroISDN > MCDN call to fail	Y	Y	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	Y	Y
MPLR33621		Mobile extensions (MOBX) with incorrect or left over MOBX_VGWPRITN are able to cause crosstalk	Y	Y	Y
MPLR33622	MPLR32970	MERGE: 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.)	Y	Y	Y
MPLR33623		BUG1009 printed frequently. Related to QSIG GF. Example: % BUG1009 : 7 234 (OUTG_MSG_EXHAUSTED)y	Y	Y	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.	Y	Y	Y
MPLR33625		SIP Line In-band Progress message with a Cause IE creates repetitive calls	Y	Y	Y
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	Y
MPLR33629	MPLR33319	MERGE:MPLR33629(INI occurs due to MEM0216 Memory corruption. Logical page is out of range.) + MPLR33319 (MEM315s and MEM316 print in groups)	Y	Y	Y
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

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Patch Id	Previous Version	Patch Title	CPL	PP4	CPM
MPLR33643		Wrong Message Reference ID sent to SLG in CRS message in ACD Call Force scenarios with AACC	Y	Y	Y
MPLR33646	MPLR33016	MERGE: MPLR33646 "Hospitality Feature - CLEAR THE CALLERSLIST AND REDIALLIST Rls 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 **	Y	Y	Y
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***)	Y	Y	Y
MPLR32811		BUG6020 messages observed on a daily basis	Y	Y	Y
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).	Y	Y	Y
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	Y	Y	Y
MPLR33655		MEM215 from WRITEPDSBIT called in ISDN$OUTG_CALL_INIT	Y	Y	Y
MPLR33662		CSV import process fails due to SCH2361	Y	Y	Y
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 ***	Y	Y	Y
MPLR33665	MPLR33548	MERGE: Call from SIP phone to CP application forwarded to ACD has no ringback + MPLR33548 (No ringback provided to SIP line when calling an ACDN forwarded (NCFW) to analog TN)	Y	Y	Y
MPLR33666		BERR0705 in tRUDP task durin ELAN link fluctuation	Y	Y	Y
MPLR33668	MPLR33506	MERGE: MPLR33668(patch for BUG330 - TAT related scenarios) + MPLR33631 + MPLR33506 ***REFER TO SPECIAL INFORMATION***	Y	Y	Y
MPLR33669		INI after BUG7058 SWD WATCHDOG from semMQUnlockPut caused by tnTableSem deadlock between tSL1 and tvtServerRx tasks	Y	Y	Y
MPLR33670		SIP Line Transfer then TROBA scenario causes long ringing calls	Y	Y	Y
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 ***	Y	Y	Y
MPLR33679	MPLR32919	MERGE: MPLR33679 "Preventive for unwanted BERR0705 EXC 1: Exception 14 in Task tvtServerRx" + MPLR32919 "INI after multiple BERR0705 in tvtServerRx"	Y	Y	Y

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Patch Id	Previous Version	Patch Title	CPL	PP4	CPM
MPLR33681		DTI2 loops cause INI loop in some configurations	Y	Y	Y
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)	Y	Y	Y
MPLR33688		When adding a new DECT Phone with CDEN 8D, get an Error Code SCH3292: Invalid Card Density	Y	Y	Y
MPLR33691		SIPL is stuck in REORDER state.	Y	Y	Y
MPLR33692		SIPL is stuck in REORDER state.	Y	Y	Y
MPLR33696		GPHT NOT WORKING CORRECTLY, BUG1500.	Y	Y	Y
MPLR33698		User hears background ringback tone during established conference call.	Y	Y	Y
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.	Y	Y	Y
MPLR33700	MPLR32910	MERGE: CS1000 is sending wrong call ID on AML link for Attendant Recall scenarios + MPLR32910 Unable to release call from Attendant on Avaya Aura Agent Desktop client	Y	Y	Y
MPLR33702		AAAD : Missed AML USM disconnect for transfer consultation call from analog 500 ACD agent.	Y	Y	Y
MPLR33736	MPLR32692 MPLR33418 MPLR33687	MERGE: MPLR33736 (ld 135 can become stuck when MPLR33687 is in-service and a work session with the overlay was finished ungracefully) + MPLR33728 (INI after BUG7058 SWD WATCHDOG can be caused by some IO errors during access to ld 135 when MPLR33687 is in-service) + 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) + MPLR33418 (Unexpected exit from LD 117 causes unexpected INI if next login uses LD 86 or 90) + MPLR32493 (Configuration Capture Tool stops capturing logs) + MPLR32617 (While configuring in lD 117, CS1000 may save a password in the Tool log) *** NOTE: MPLR33418 introduces new error code ESN418. Patch uses U_JUNK_WORDS[181] *** PLEASE NOTE THAT THIS PATCH USES PatchGlobalVar0 and PatchGlobalVar94 *** PLEASE NOTE THAT THIS PATCH USES patchStub700() and patchStub701() ***	Y	Y	Y
MPLR33737	MPLR33285 MPLR33426 MPLR33572	MERGE: MPLR33737 (Group Hunt skips CDN in the group hunt list with MPLR33572) + 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.)	Y	Y	Y
Patches carried forward from SP7					
MPLR32540		Bulk Provision failed to transfer data block RDB to destination CS	Y	Y	Y

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MPLR32553		PLUGIN 27 getting disabled after call server INI if PKG 366 is restricted, PKG 409 is unrestricted	Y	Y	Y
MPLR32555		BUG6507 is printed on CS1000M during NSBR scenario	Y	Y	Y
MPLR32556		INI after BERR0705 and BUG7062, BUG7058 on RPT log when SIPL set completes conference call using MGCONF	Y	Y	Y
MPLR32562		PI: Feature Operation Failure FFC RPA code does not work on 500. ACT MPLR10373 activates PI functionality	Y	Y	Y
MPLR32564		DCH recovery slow on MSDL DCH with Package 418 equipped	Y	Y	Y
MPLR32571		AUD200 corrupts ESA call display of caller identity, Also AUD201 and AUD208	Y	Y	Y
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	Y
MPLR32573		SIPL set has MADN failed to join the bridge	Y	Y	Y
MPLR32580		Prevent illegal combination of overlays being simultaneously loaded during GR database replication which can then cause corruption	Y	Y	Y
MPLR32582		BUG266 when call from 500 set to ISDN trunk is blocked by NFCR and intercept treatment is RAN route	Y	Y	Y
MPLR32587		CONFERENCE AND TRANSFER BUTTONS DISPLAYED (WHEN THEY SHOULD NOT BE) ON CALLED TELSET, AFTER SIPL TELSET MAKES A SECOND CALL TO THAT TELSET	Y	Y	Y
MPLR32591		DTMF not being passed when call is connected through Avaya Aura Messaging	Y	Y	Y
MPLR32594		PI: SECURITY CHECK ON DID/CO TRUNKS. Install MPLR21988 to activate PI functionality	Y	Y	Y
MPLR32596		MPLR32596 - CS1000M crosstalk when SIPL is used with Music-on-hold	Y	Y	Y
MPLR32607		INI after BERR0705 From IOWRITE:..:WRITE_SERV_CIRC called on CS1000E	Y	Y	Y
MPLR32613		Inactive PI: No TRO when call diverted to rpa DSC 18 or 10. ACT MPLR22854 activates PI functionality	Y	Y	Y
MPLR32615		MobileX cell phone user cannot do the call transfer if the 2nd call is to Call Pilot (while greeting is played).	Y	Y	Y
MPLR32616	MPLR32584	Prevents CPPM/CPP4 INI after BERR0705 from accountSL1PrivLogoutTimeGet:..: ACOUNT_sl1:ACCLOUTG		Y	Y
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 ***	Y	Y	Y
MPLR32628		INI after BUG7058 SWD WATCHDOG, AFTER MEM401, MEM215, data corruption from PROCEDURE PROG_CFW	Y	Y	Y

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MPLR32640		BUG5835 appears when ACD agent presses MSB and NRD immediately		Y	Y
MPLR32654		Unable to deactivate deplist for CPPM cores call server via Patch manager. ***SPECIAL INSTRUCTIONS***. Applicable only for CPPL platform.	Y		
MPLR32658		SIP DECT TELSET gets busy tone when Speed Dial feature is used by SSPU FFC code	Y	Y	Y
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	Y	Y
MPLR32662		Downloading loadware to msdl takes long time	Y	Y	Y
MPLR32665		FastSync feature does not identify whether changes came from EM (Element Manager) or were entered manually in Call Server LD 95	Y	Y	Y
MPLR32671		PI: SAR(overlay 88)/ICR(Incoming Call Restriction) *** NOTE: ALSO KNOWN AS ASCOM PATCH 239 *** ACT MPLR21285 activates PI functionality	Y	Y	Y
MPLR32675		UEXT/SIPL TELSET unable to de-activate call forward using ffc code, if configured as MARP.	Y	Y	Y
MPLR32676		Contact centre call getting dropped when reaching agent	Y	Y	Y
MPLR32689		BUG1500 when calling busy trunk route	Y	Y	Y
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.	Y		
MPLR32701		TTY0018 FD -1 messages being printed frequently	Y	Y	Y
MPLR32702		DST Inactive on wrong date		Y	Y
MPLR32704		BCC (EM) Courtest Change with KEM attached to IP phone doesn't work properly	Y	Y	Y
MPLR32708		DTMF tone generated from CCT reference client affects CDR output	Y	Y	Y
MPLR32713		INI after BERR0705 from INCR_VGW_UNIT:..:SCPRTXXX when LD 20 PRT of PRI2 loop is attempted.	Y	Y	Y
MPLR32718		INI after BERR0705 from INCR_VGW_UNIT:..:SCPRTXXX when LD 20 PRT of PRI2 loop is attempted.	Y	Y	Y
MPLR32723		BERR0705 in timeoutService task	Y	Y	Y
MPLR32726		EUROISDN DCH going down after DTA103, WITH ECTO (EXPLICIT CALL TRANSFER) FEATURE	Y	Y	Y
MPLR32731		CALL REGISTER LOCKUP: MAINPM = 0C (.SPECIAL) AUXPM = 34 (.PRA_TCAP_CR)	Y	Y	Y
MPLR32734		Concurrency Sustaining: Add the rpt (report log) record at midnight if lampaudit is turned off	Y	Y	Y
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	Y	Y

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MPLR32736		BUG392 printed. Related to CDR.	Y	Y	Y
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 ***	Y	Y	Y
MPLR32744		On 1140E KEM, adding a Label to 2nd page also replaces 1st page label. SPECIAL INSTRUCTIONS*** SEE EXTERNAL NOTES	Y	Y	Y
MPLR32748		LD 97 CHG; SUPL; gets stuck at IPR0/IPR1. Failed to change information of empty IPMG associated with TN.	Y	Y	Y
MPLR32753		BUG098 in SET_ROUTE_PTRS called from BCS_SNR	Y	Y	Y
MPLR32758		BUG365, AUD019 conference and TDS CONF loops not releasing	Y	Y	Y
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	Y	Y
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.)	Y	Y	Y
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 ***		Y	Y
MPLR32776		Can not complete conference if the AG is not ended at the agent who receives that conference call	Y	Y	Y
MPLR32780		BRIL DSL units stay in MBSY state after MGC reboot.	Y	Y	Y
MPLR32782		R7.6 Concurrency Sustaining: Diagnostic for AUD017/AUD018 call scenarios. ** using U_JUNK_WORDS[195-196] ** *** Special Instructions, Please see External notes ***	Y	Y	Y
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)	Y	Y	Y
MPLR32801		Cannot configure remote call forward to external DN when ZBD is active	Y	Y	Y
MPLR32809		"Remote Hold" displays on SIPL set which is selectively disconnected from conference.	Y	Y	Y
MPLR32812		BUG6504 and BUG330 when attn releases a disconnected SIPL	Y	Y	Y

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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	Y
MPLR32819		Unable to replace MGC loadware in Patch Manager if another loadware version is already installed.	Y	Y	Y
MPLR32821		Command "stat tty" fails if previous command "stat xsm" is completed by typed "*"	Y	Y	Y
MPLR32827		Route ID is displayed on MobX instead of caller ID	Y	Y	Y
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	Y	Y
MPLR32830		CallPilot (call pilot) port stuck after unknown conditions (status IDLE in LD 32 but it is not possible to terminate call on agent).	Y	Y	Y
MPLR32831		SIPL Dect user doesn`t hear ringback when calling by RPAX FFC	Y	Y	Y
MPLR32832		BERR705 from procedure INTERCPT$SET_ROUTE_CUST from procedure ESA_TERM	Y	Y	Y
MPLR32836		ELC:Incorrect bandwidth reservation for conference local interzone call between SIPL set and TDM, Unistim sets using G.711	Y	Y	Y
MPLR32844		SIP Line phone cannot retrieve the first call	Y	Y	Y
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	Y	Y
MPLR32849		SORM: Sometimes message 7 result is 2 for command 5	Y	Y	Y
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 **		Y	
MPLR32858		R7.6 Concurrency sustaining: Store the GF Error Log in the RPT log.	Y	Y	Y
MPLR32863		Calls via PRI2 trunks are dropped after INI of Call Server	Y	Y	Y
MPLR32865		UNIStim user hears short noise when the call is retrieved from MOH **********REFER TO SPECIAL INSTRUCTIONS**********	Y	Y	Y
MPLR32869		Unexpected AML messages when CH (Conference-Hot Line) key is in use on controlled set)	Y	Y	Y
MPLR32870		CS1k is deleting starting digits from the dialed number and sending it to AACC Over AML link in CRS message."	Y	Y	Y
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 ***		Y	

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MPLR32883		UCM does NOT give a validation error when adding AAK key	Y	Y	Y
MPLR32885		Wrong Name is sent in CT Complete message on transfer of R2MFC	Y	Y	Y
MPLR32886		INI after BERR0705 in GF related code from CalledPartyNumberIEP22ConnectionOrientedPathRi : ONCallSetupP10HeaderInfoP22ConnectionOrientedPath	Y	Y	Y
MPLR32889		Intermittently CLID (calling line ID) is missing on outgoing leg of call after a Thru-dial via callpilot menu	Y	Y	Y
MPLR32904		AFS sessions stuck on CS (Security Domain and Backup Rules issues, SRPT316, SRPT4640)		Y	Y
MPLR32917		The /e partition is inaccesible because limit of opened files is reached.	Y	Y	Y
MPLR32922		INI after BERR0705 from vcmSendFarCmd : vcm_rxNearWaitDsc_farOpenRx : vcmRxFSM : VCM_PROCESS_MSG : VCM_AUDIOCAP : .. : VCM_HDLR	Y	Y	Y
MPLR32925	MPLR32669	MEM224 Caused by CallPilot transfer to 2009 set	Y	Y	Y
MPLR32929		Call Park DN not being displayed when recalled to ATTN	Y	Y	Y
MPLR32930		BUG253 1420 21 00000000 during camp-on	Y	Y	Y
MPLR32937		ESA call via DPNSS cuts off after LD 44 audit. SRPT4653 AUD017 AUD018 PRINTED	Y	Y	Y
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	Y	Y	Y
MPLR32942		Tpt commands "Addw" and "Addrw" don't work correctly. (Not applicable for VXELL)		Y	Y
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.***		Y	Y
MPLR32951		AUD335 printed from incoming (.CSL_GMTS = GET_MULTIPLE_TN) CSL messages	Y	Y	Y
MPLR32952		MPLR31048 causes MCDN TRO problem in one transfer call scenario. **** Replaces PATCH MPLR31048 ****	Y	Y	Y
MPLR32954		rptbug can be turned on for a wrong BUG/ERR number	Y	Y	Y
MPLR32956		CS1K SIP phone can't hear custom ringback tone when TRO feature is activated	Y	Y	Y
MPLR32957		Channel of TDM trunk is LCKO after performing disable then enable.	Y	Y	Y

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MPLR32963	MPLR32331	When SIPL (SIPLINE) Set calls an unreachable number over EUROISDN trunk, ringbacktone is heard instead of announcement	Y	Y	Y
MPLR32970		DECT call to local digital set is dropped after some time.	Y	Y	Y
MPLR32971		INI after BERR705 in SEARCH_PUID called from UPD_PUID_TNLIST	Y	Y	Y
MPLR32973		BUG105 and BUG4005 printed from abandoned incoming PRI call to a PCA	Y	Y	Y
MPLR32975		LD 23: ACD; ALOG=YES CAUSES AGENTS NOT TO BE ABLE TO LOGIN	Y	Y	Y
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	Y
MPLR32989		BUG420 (DPNSS) and related AUD014	Y	Y	Y
MPLR32990		CLID is not shown on terminating set if originating and terminating sets are in different numzones	Y	Y	Y
MPLR32997		Zones report (TFS0016) format was changed. The new format has dropped the fields INTRAZONE and INTERZONE.	Y	Y	Y
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.	Y	Y	Y
MPLR33008		ESA and Subnet LIS Configuration: force an emergency call through the fallback subnet 0.0.0.0 *** REFER TO SPECIAL INSTRUCTIONS ***	Y	Y	Y
MPLR33014		BUG6034 and associated BUG5763 are printed for DPNSS Call Intermittently	Y	Y	Y
MPLR33017		Transfer does not work from digital telephone to SIPL Phone on CS1000M.	Y	Y	Y
MPLR33022		realloc will cause infinite recursion and many berr from stack overflow **** FOR CPL ONLY ****	Y		
MPLR33023		Controlled load sharing: IP phone not registering back to home system when it's back online	Y	Y	Y
MPLR33025		KEM keys are not printed out in ld20 in case of TYPE=ISET.	Y	Y	Y
MPLR33027		No speech path at Orig SIPL(SIP LINE) phone in IP Conference call when 3 SIP Line parties use IPv6.	Y	Y	Y
MPLR33028		BUG1500 from NUM_DN_MEMBERS:..:GET_CONNECTED_#:..:QCTN_HANDLER	Y	Y	Y
MPLR33030		BUG5005 from NAS_DECODE : CHECK_FOR_NAS : PRA_DIALING : PRA_MAINPM : IN_SETUP_MSG :..: ISDN :..: PRA_HANDLER during MCDN/DPNSS call forward scenario	Y	Y	Y
MPLR33031		Plug-in 232 does not work properly in some call scenarios	Y	Y	Y

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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	Y	Y
MPLR33033		BUG4244 from MINT_PKG_CLS : MINT_HANDLER : MARKBUSY	Y	Y	Y
MPLR33034	MPLR32660	MPLR32660 for R7.6 affects LNR feature on external calls when ZDP is used.	Y	Y	Y
MPLR33039		BUG489 when ATTN dials ACD queue from DEST	Y	Y	Y
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)	Y	Y	Y
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	Y	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	Y	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).	Y	Y	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)		Y	
MPLR33081		PI: SYSTEM SLOW-DOWN / FREEZE or BERR705 due to facility message ping-pong (ACT MPLR15748 activates PI functionality)	Y	Y	Y
MPLR33083		PI: RFC2833:Autodial fails to produce DTMF tones from an IP set over SIP Trunks (to activate functionality MPLR32899 is needed).	Y	Y	Y
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	Y	Y
MPLR33090		Displayed Digits getting truncated beyond 16	Y	Y	Y

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MPLR33099		NHC (No hold conference) calls cause BUG266 and key lockup after initial BUG266	Y	Y	Y
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	Y	Y
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	Y	Y
MPLR33127		2050 and Active Call Failover time. ACF timer should start for PRI/DTI/PRI2/DTI2 trunks in the case of network issues.	Y	Y	Y
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.)	Y	Y	Y
MPLR33131		Incoming DASS call with SIC 18 does NOT seize an outgoing SL1/SIP trunk	Y	Y	Y
MPLR33132		BUG5051 printed multiple times, then BUG288 and BUG681 printed	Y	Y	Y
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."	Y	Y	Y
MPLR33138		GF debug level is 2, then call via GF trunks cause BERR705. ***SEE SPECIAL INSTRUCTIONS***	Y	Y	Y
MPLR33141		ld 80 TRAC shows busy for all VGW channels in case of ROUTE 0 configured	Y	Y	Y
MPLR33145		BUG5002 printed frequently	Y	Y	Y
MPLR33146		Enabling SNMP for Off Hook Alarm Security (OHAS)	Y	Y	Y
MPLR33147		CPND NAME NOT DISPLAYED ON SET, AFTER QSIG TRANSFER DUE TO QCTN UPDATE HANDLED BY CS1000 INCORRECTLY	Y	Y	Y
MPLR33152		CS INI with BERR0705 When Changing CLS MSBT/MSNV/MSAW for Unistim or SIPL Set	Y	Y	Y

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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)	Y	Y	Y
MPLR33159		Unable to synchronize CS clock from SS by NTP with secure mode *** NOTE: Not applicable for CPL ***		Y	Y
MPLR33162		SYS4439 is printed on sysload with a corrupted database ** REFER TO SPECIAL INSTRUCTIONS **	Y	Y	Y
MPLR33172		SIP DECT HOT key stuck when XFER to UIPE Invalid/BUSY UIPE DN	Y	Y	Y
MPLR33174		MEM0214 Memory corruption during memory dump after upgrade from 5.0 to 7.6.	Y	Y	Y
MPLR33175		Incorrect bandwidth calculation in case of SIPL-SIPL call.	Y	Y	Y
MPLR33180		MWI is not transferred from DPNSS to Virtual trunks if GR "controlled load sharing" feature is used.	Y	Y	Y
MPLR33182		AAAD gets stuck in the call when ATTN drops the consultation using Rls Source key	Y	Y	Y
MPLR33185		SIP Line user gets disconnected after call pick-up DISA call	Y	Y	Y
MPLR33186		TMDI is not enabled automatically after network failure	Y	Y	Y
MPLR33187		BUG864 and call drops with Zone base dialing enable	Y	Y	Y
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.)	Y	Y	Y
MPLR33194		PI: Allow DRC key control TIE route ** contains inactive PI functionality, MPLR23646 is the PI enabler **	Y	Y	Y
MPLR33202		ELC (Extended Local Calls): The call is local in some ELC TDM (500) sets	Y	Y	Y
MPLR33206		BUG1366 and PRI channel hung in tandem call scenario	Y	Y	Y
MPLR33210		UDT card reboots due to receiving phone SSD message	Y	Y	Y
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)	Y	Y	Y
MPLR33223		PI: Adding an ability to change value of T304 timer. To activate PI functionality MPLR33225 is required ***REFER TO SPECIAL INSTRUCTIONS***	Y	Y	Y

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Patch Id	Previous Version	Patch Title	CPL	PP4	CPM
MPLR33226		BUG1365 from BUG_PARMS : STATE_STD_BUGMSG : U10_I_TO : PRA_T2_TIMEOUT :..: UIPE_CC	Y	Y	Y
MPLR33228		Small memory leak on inactive side. *** NOTE: THIS PATCH IS APPLICABLE TO MACH TYPE: CPPM ONLY ***			Y
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	Y	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***	Y	Y	Y
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)	Y	Y	Y
MPLR33235		Request CS1000 to insert a delay before presenting Camp-On recall to SIP DECT	Y	Y	Y
MPLR33237		Memory leaks from the protected heap during Warm starts.	Y	Y	Y
MPLR33238		UDT card restarts due to attendant slow answer recall	Y	Y	Y
MPLR33239		Bandwidth leak due to timing race during MCDN TAT triggered by SIP REFER	Y	Y	Y
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	Y	Y
MPLR33257		INI after BERR0705 from IOWRITE : EES_CONFERENCE *** NOTE: THIS PATCH PRINTS: ERR3257 WHEN IT AVOIDS THE INI ***	Y	Y	Y
MPLR33261		DCH monitoring safety tools not working properly. This problem could lead to a system running out of call registers for call processing.	Y	Y	Y
MPLR33264		SMG->CPMGS->ALTERNATE CALL SERVER 2->SRPT315 CS is not able to recover HeartBeat link with MGC Cabinet	Y	Y	Y
MPLR33269		Microsoft Office Communicator client is stuck after Call Transfer	Y	Y	Y
MPLR33270	MPLR33075	Increase SDP size - Twinned Flare 1.2 answering AAC dial out call does not get video *** MPLR33270 replaces MPLR33075 ***	Y	Y	Y
MPLR33272		BERR0705 from procedure WindPrioritySet when taking accountDb semaphore MGC,CPPM and CPPIV only		Y	Y
MPLR33277		Bandwidth is not released properly when running CDN traffic	Y	Y	Y

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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	Y
MPLR33287		M3905 ACD set with handset and headset plugged in buzzes with RNGI CLS	Y	Y	Y
MPLR33288		Unexpected value in AML ICC message as ORIGINALLY DIALLED DN	Y	Y	Y
MPLR33290		PI:Park Recall display is not working correctly for ACD agents with Call Force (To activate functionality MPLR33292 is needed)	Y	Y	Y
MPLR33303		QSIG ping-pong of CT_UPDATE_OP messages *** NOTE: PATCH uses spare bits in the Message Call register ***	Y	Y	Y
MPLR33304		There is no speech path when SIP DECT user make blind transfer to twinned SIP Line Sets the second time	Y	Y	Y
MPLR33305		DCH corruption after d-channel change in ld 17	Y	Y	Y
MPLR33312		RLC Alarm Buffer overwrite causes MEM0218 (MEM218) and possibly other memory corruption *** NOTE: THIS PATCH introduces new ERR code ERR3312 ***	Y	Y	Y
MPLR33316		INI after BERR0705 from ACD_OB_DISC	Y	Y	Y
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	Y
MPLR33318		NHC (No Hold Conference) fails over digital trunks	Y	Y	Y
MPLR33320	MPLR33086	MERGE: MPLR33320(PI: ACOD is not available for called party and pickup in TAPI. Put MPLR21945 in service to activate the patch functionality.) + MPLR33086(Aura TR87/CS1000 SIP - Call forwarding or redirectCall/Call Notification v.3.8 - Incomplete notifications) Note1** Need to put MPLR21945 to activate MPLR33320 functionality. Note2** SPECIAL INSTRUCTIONS: see external notes for more details.	Y	Y	Y
MPLR33321	MPLR32888	MPLR33321 CDR data are different between TTY ouput and dba.cdr file. NOTE**: the patch replaces MPLR32888.	Y	Y	Y
MPLR33323	MPLR33156	MERGE: 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	Y	Y
MPLR33324		Attendant Console can hear Music On Hold when Set Based Music is configured	Y	Y	Y
MPLR33327		Network restrictions are not applied for OCS call as described in the NTP	Y	Y	Y
MPLR33328		MPLR32014 DIAG002 and DIAG004 messages are printed every audit loop detecting issues in Group Hunt data	Y	Y	Y

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Patch Id	Previous Version	Patch Title	CPL	PP4	CPM
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)	Y	Y	Y
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	Y
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 not FNA immediately)	Y	Y	Y
MPLR33338		MERGE: MPLR33338, MPLR33298 (AUD0021, AUD0028 and BUG0195 are shown on TTY).	Y	Y	Y
MPLR33339		CS1000 X21 07.65Q Installation Utility: Increase patch handles to 2500. ** Not applicable for CPPL platform **		Y	Y
MPLR33341		PI: Trunk calls from numbers with certain initial patterns should be blocked (Enabler is MPLR33309)	Y	Y	Y
MPLR33342		MERGE: MPLR33342, MPLR33254 (MDP ISSP should support more than 1000 patches)	Y	Y	Y
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	Y	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 ***		Y	Y
MPLR33350		It is impossible to configure SFTP backup rule at ld 117 *** USE patchSpareWords 1000-1015 *** PLEASE REFER TO EXTERNAL NOTES FOR SPECIAL INSTRUCTIONS *** THE PATCH IS NOT APPLICABLE TO CPL ***		Y	Y
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.)	Y	Y	Y
MPLR33359		INI after BERR705 in tSL1 from RFC_SL1_CONTROL	Y	Y	Y

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MPLR33361		Recall to VOLO set is blocked when Tenant is configured on system	Y	Y	Y
MPLR33365		1140 callers list is not logging successful calls, only missed calls	Y	Y	Y
MPLR33368		SM corruption and BERR in tSwoTask during gswo when using DBA tool in SFTP mode	Y	Y	Y
MPLR33373		BERR705 in task ipbMoni	Y	Y	Y
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 ***"	Y	Y	Y
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 ***	Y	Y	Y
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 ***			Y
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 ***		Y	Y
MPLR33394	MPLR32602	PI: NO MAILBOX REACHED WHEN CALL TO MOBILE PHONE IS REDIRECTED TO VOICE MAIL -- REPLACES OBS MPLR32602 -- ACT MPLR13860 activates PI functionality	Y	Y	Y
MPLR33397		MEM309 printed during BRI operations	Y	Y	Y
MPLR33400		BUG253 is printed on Slow Answer Attendant Recall	Y	Y	Y
MPLR33408		From SIPL set, cannot dial a short DN starting from ZBD zone prefix	Y	Y	Y
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 ***	Y	Y	Y
MPLR33410		Missing AML messages after re-presenting of held IDN call on analog phone	Y	Y	Y
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	Y	Y

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MPLR33412		DCH monitor: storing to dch.log doesn't work after SCPU	Y	Y	Y
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)	Y	Y	Y
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	Y	Y
MPLR33427		BUG749 printed on attendant scenario involving ROA	Y	Y	Y
MPLR33433		BUG253 flood when Network Authorization Code (NAUT) tone is provided	Y	Y	Y
MPLR33434		Call Failure, AUD031, and AUD126 caused by selecting a DSP that has no timeslots available	Y	Y	Y
MPLR33438		Failures to match on conference loops leads to BUG6504 and BUG330	Y	Y	Y
MPLR33444		BUG1009/BUG9157 for call diversion scenario	Y	Y	Y
MPLR33447		A leak of file descriptors is observed in case of some corruptions of rpt files.	Y	Y	Y
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	Y	Y
MPLR33452		BUG5774 on trunk to trunk calls when calling DCH has more than 511 calls active	Y	Y	Y
MPLR33453	MPLR32290	PRT DNIP of DN gives improper result ** new version of MPLR32290 **	Y	Y	Y
MPLR33455		BUG6507 is printed when 3260 IP Attendant parks a call	Y	Y	Y
MPLR33461	MPLR33357	Incoming call doesn't have correct CLID through AML link in MO-BO setup (normal mode)	Y	Y	Y
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 **		Y	Y

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Patch Id	Previous Version	Patch Title	CPL	PP4	CPM
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 ***	Y	Y	Y
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].	Y	Y	Y
MPLR33482		TOOL: Audit for DN_GHBLK corruptions. ** Note 1: uses U_JUNK_WORDS[190-191]. Note 2: Special Instructions. See notes section for details. **	Y	Y	Y
MPLR33485		Problem with German CPND names with QSIG to MCDN ***Note 1: Put p32730_1(PI enabler) in service to activate the functionality.	Y	Y	Y
MPLR33488		MWI problem on SIP registration refresh.	Y	Y	Y
MPLR33494	MPLR32733	MERGE: MPLR33494 (new tool "AUDIT FOR DN_GHBLK CORRUPTIONS") + MPLR32733 (R7.6 Concurrency Sustaining: TOOL MANAGEMENT) ** using U_JUNK_WORDS[199] **	Y	Y	Y
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)	Y	Y	Y
MPLR33497		Trace in LD80 displays wrong far end media endpoint IP of CM phone	Y	Y	Y
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	Y
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.	Y	Y	Y
MPLR33509		INI 1B from NARS LTER with Zone Based Dialing **** PEP prints DIAG423 when potential INI is averted ****	Y	Y	Y

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Patch Id	Previous Version	Patch Title	CPL	PP4	CPM
MPLR33517		SIPLine Phone fails when it retrieves a parked call using CPAC FFC	Y	Y	Y
MPLR33520		TRUNKATED SUBADDRESS IE WHEN TANDEMING QSIG TO MCDN *** NOTE: ALSO KNOWN AS ASCOM PATCH 583 *** *** TO ACTIVATE PI PATCH FUNCTIONALITY MPLR21717 IS NEEDED ***	Y	Y	Y
MPLR33523		BRI Trunk BUG5501 generated on outgoing calls	Y	Y	Y
MPLR33528	MPLR32552	MERGE: AML Ringing message is missed in MultiDN Recording setup (not AST) + MPLR32552	Y	Y	Y
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 ***	Y		
MPLR33539		A timestamp in a time sync message from Call Server to AACC/Call Pilot has 2s accuracy only	Y	Y	Y
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.)	Y	Y	Y
MPLR33541		AUD112 is printed	Y	Y	Y
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	Y	Y	Y
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 ***	Y	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)	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.

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Patch ID	Sysload/INI/ Required	Special instructions
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
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 **Note 2:** 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.

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Patch ID	Sysload/INI/ Required	Special instructions
MPLR32742	yes	ONLY if upgrading from Option 11C database with release prior X11 25.15 to CS1000E: 1. 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

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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 2. Deactivate the patch in PDT shell: PATCH_1 3 3 3. Remove the patches from service and from memory (optional).
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.

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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 Patch handle is: 242 2. Sysload the system, wait for it is operational. The message SYS4439 will be printed and the patch will correct the database. 3. When the system is fully loaded, make the data dump (LD 43, edd clr). On the next sysloads the SYS4439 will not be printed.
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-mscTone-7.65.16.22-1; cs1000-mscAttn-7.65.16.22-1
MPLR33320		1. It is PI patch. Please put MPLR21945 in service to activate the patch functionality. 2. The patch inserts AC1 only for outgoing E164 calls User should use DAPC feature for incoming calls.
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

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Patch ID	Sysload/INI/ Required	Special instructions
MPLR33382		PATCH MPLR33382 SHOULD BE USED TOGETHER WITH VTRK SU cs1000-vtrk-7.65.16.23-5 OR HIGHER All CS1000 nodes must be patched with MPLR33004 + VTRK SU in order for this fix to take effect. If all nodes are not patched with MPLR33382 + VTRK SU, then there will be NO breakage of other MCDN features.
MPLR33390	yes	SPECIAL INSTRUCTIONS: ---------- 1) Make sure CS1000 dual CPU (HA) system is fully redundant. 2) Install (pload + pins) patch MPLR33390 on the active CPU 3) 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). 4) 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. (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.

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Patch ID	Sysload/INI/ Required	Special instructions
MPLR33424	yes	An INI is required for activation of the patch on VxEll (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

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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

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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		********** The issue occurs due to unrecommended preferences of SYSP block and LE1 hardware issue. Need to configure recommended SYSP preferences: FLASH TIMERS 120 0896 NOTE1: The patch does not allow to disconnect the call from bcs set if the 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 **********

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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. 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. **********

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Patch ID	Sysload/INI/ Required	Special instructions
MPLR33675	Yes	Special Instructions for MPLR32638: ========== Patch makes possible to enable plugin. pdt> ple 236 PLUG-IN 236 IS ENABLED Special Instructions for MPLR ld 22 REQ:prt TYPE Plugin 236 ENABLED Q01777861 MPLR25106 DTMF for ADL INSTRUCTIONS 0F 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: ========== Patch changes plug-in number 227 to 400. INSTRUCTIONS 0F 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.

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Table 3: Fixes Delivered to CS1000 Linux SU Service Pack 8.

SUs with RED fill have special Instructions which are documented in Table 4.

SU ID	Description of Fixes included in Each SU
cs1000-bcc-7.65.16.23-15.i386.000	Element manager delete the TNs selected in the Previous page***REFER TO SPECIAL INFORMATION***
	BCC import failed to update CPND name in CS****REFER TO SPECIAL INFORMATION****
	REFER TO SPECIAL INFORMATION SCH2115 when trying to update phone with equal CPND Names on non-equal DNs
	Need to add default "no" value to VSIT field in csv report****REFER TO SPECIAL INFORMATION****
cs1000-csmWeb-7.65.16.23-2.i386.000	**REFER TO SPECIAL INFORMATION** Cannot modify Media Card ELAN Gateway, ELAN Netmask and TLAN Netmask in Geographic Redundancy setup
cs1000-cs1000WebService_6-0-7.65.16.23-4.i386.000	Upon an update, as in a name change, the MARP flag/check box is not set according to how they are set in the object when the web service is called. One of the MARP flag on a phone is set to true (as observed in EM after a retrieve) in a key that it was set to false in the object.
cs1000-csv-7.65.16.23-4.i386.000	csv/tps crashes during DTLS handshake *** PLEASE REFER TO SPECIAL INFORMATION SECTION FOR SPECIAL INSTRUCTIONS ***
	A number of enhancements for better support of the mutual authentication *** PLEASE REFER TO SPECIAL INFORMATION SECTION FOR SPECIAL INSTRUCTIONS ***
cs1000-dmWeb-7.65.16.23-5.i386.000	***REFER TO SPECIAL INFORMATION*** (Design) Common Server 3 support.[DM part] - UCM 7.6
cs1000-emWeb_6-0-7.65.16.23-7.i386.000	***REFER TO SPECIAL INFORMATION*** Update Online Help for EM
	Customer using CS1000 virtual terminal connection from Element Manager "loses characters"****REFER TO SPECIAL INFIRMATION****
	Unable to change time of day controller parameters in element manager ****REFER TO SPECIAL INFORMATION****
	REFER TO SPECIAL INFORMATION (Design) Common Server 3 support [EM part] - UCM 7.6
cs1000-nrsm-7.65.16.23-1.i386.000	***REFER TO SPECIAL INFORMATION*** Update Online Help for NRSM

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SU ID	Description of Fixes included in Each SU
cs1000-Jboss-Quantum-7.65.16.23-7.i386.000	Need to update CS1K UCM online help files
	CorpDir report upload via schedule fails with "Failed to establish SFTP session" error after some time
cs1000-linuxbase-7.65.16.23-30.i386.000	CS1K_SP7: freeDiskSpace command need to be enhanced *** PLEASE REFER TO SPECIAL INFORMATION SECTION FOR MORE INFO ***
	Signaling Server sends SNMP traps with an unclear error every 5 minutes *** PLEASE REFER TO SPECIAL INFORMATION SECTION FOR MORE INFO ***
	NFS installation is broken in case of a standalone SDS *** PLEASE REFER TO SPECIAL INFORMATION SECTION FOR MORE INFO ***
	Update Linux Base for proper support of Common Server 3 *** PLEASE REFER TO SPECIAL INFORMATION SECTION FOR MORE INFO ***
cs1000-numgrp-7.65.16.23-3.i386.000	***REFER TO SPECIAL INFORMATION*** Fail to upload CorpDir report to CoRes system after upgrading to SP7 ("Failed to establish SFTP session").
cs1000-tps-7.65.16.23-20.i386.000	Signaling Server should support the mutual authentication for DTLS. *** PLEASE REFER TO SPECIAL INFORMATION SECTION FOR SPECIAL INSTRUCTIONS ***
	Introduce support of CRLs for the mutual authentication of IP sets *** PLEASE REFER TO SPECIAL INFORMATION SECTION FOR SPECIAL INSTRUCTIONS ***
	csv/tps crashes during DTLS handshake *** PLEASE REFER TO SPECIAL INFORMATION SECTION FOR SPECIAL INSTRUCTIONS ***
	A number of enhancements for better support of the mutual authentication *** PLEASE REFER TO SPECIAL INFORMATION SECTION FOR SPECIAL INSTRUCTIONS ***
cs1000-vtrk-7.65.16.23-104.i386.000	CS1000 SSG needs to gracefully reject oversized SIP messages ***REFER TO SPECIAL INFORMATION***
	Originator can't unhold the call when one party releases 3 way call. ***REFER TO SPECIAL INFORMATION***
	Originator can't unhold the call when one party releases 3 way call. ***REFER TO SPECIAL INFORMATION***
	Call is released when retrieves the parked call between Unistim and SIPL B179 phone ***REFER TO SPECIAL INFORMATION***
	Transaction Memory Leak happening on SLG Application resulting in 486 Busy Here. ***REFER TO SPECIAL INFORMATION***

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SU ID	Description of Fixes included in Each SU
	Multiple SIP negotiation causes delay in ringback ***REFER TO SPECIAL INFORMATION***
	One way speech path when local party drops a conference call. ***REFER TO SPECIAL INFORMATION***
	HOT U key is stuck in established state. ***REFER TO SPECIAL INFORMATION***
	No ringback tone for PRI call to CS1000 forwarded to CM Station with Coverage path ***REFER TO SPECIAL INFORMATION***
	PI: Provide ringback tone in blind transfer scenarios, when far end does not support SIP UPDATE ***REFER TO SPECIAL INFORMATION***
	No speech path when SIPLine Phone reinvites TDM Set to the conference ***REFER TO SPECIAL INFORMATION***
	External callers are unable to leave voicemail for users at BCM branch offices.***REFER TO SPECIAL INFORMATION***
	CS1000 does not display CPND during ringing cycle. ***REFER TO SPECIAL INFORMATION***
	Silence after the call is routed by CDN to AVP ***REFER TO SPECIAL INFORMATION***
	Multiple SIP negotiation causes no speech path ***REFER TO SPECIAL INFORMATION***
submgr-2.3.0-11.noarch.000	Modify account sync for saving accounts which have more than one possible subscribers****REFER TO SPECIAL INFORMATION****s
cs1000-shared-pbx-7.65.16.23-2.i386.000	Signaling Server should support the mutual authentication for DTLS. *** PLEASE REFER TO SPECIAL INFORMATION SECTION FOR SPECIAL INSTRUCTIONS ***
cs1000-shared-tpselect-7.65.16.23-1.i386.000	Signaling Server should allow use of bootp files without 'tc' tag.
cs1000-mscAttn-7.65.16.23-8.i386.000	IP Attendant can't be registered intermittently ***REFER TO SPECIAL INFORMATION***
	IP Attendant console has intermittant speechpath issue ***REFER TO SPECIAL INFORMATION***
	IP Attendant hears speech of another call with another IP attendant ***REFER TO SPECIAL INFORMATION***

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SU ID	Description of Fixes included in Each SU
	No speechpath IP Attendant issues after AMS "session on hold teardown delay" timer expires ***REFER TO SPECIAL INFORMATION***
cs1000-mscAnnc-7.65.16.23-1.i386.000	IP Attendant console has intermittant speechpath issue ***REFER TO SPECIAL INFORMATION***
cs1000-mscConf-7.65.16.23-1.i386.000	IP Attendant console has intermittant speechpath issue ***REFER TO SPECIAL INFORMATION***
cs1000-mscMusc-7.65.16.23-1.i386.000	IP Attendant console has intermittant speechpath issue ***REFER TO SPECIAL INFORMATION***
cs1000-mscTone-7.65.16.23-1.i386.000	IP Attendant console has intermittant speechpath issue ***REFER TO SPECIAL INFORMATION***
jdk-1.6.0_115-fcs.i586.000	Upgrade of JDK to 6u115 *** PLEASE REFER TO SPECIAL INFORMATION SECTION ***
kernel-2.6.18-409.el5.i686.000	Required to update kernel package on Linux Base because of CVE-2015-5364, CVE-2015-5366 and BZ#1209728. *** PLEASE REFER TO THE SPECIAL INFO SECTION FOR SPECIAL INSTRUCTIONS ***
kernel-PAE-2.6.18-409.el5.i686.000	Required to update kernel-PAE package on Linux Base because of CVE-2015-5364, CVE-2015-5366 and BZ#1209728. *** PLEASE REFER TO THE SPECIAL INFO SECTION FOR SPECIAL INSTRUCTIONS ***
p33584_1	Update glibc and nscd packages on Linux Base due to CVE-2013-7424 *** PLEASE REFER TO EXTERNAL NOTES FOR SPECIAL INSTRUCTIONS ***

Table 4: Special Instructions for SUs within Service Pack 8

SU ID	Special Instructions for Each SU
cs1000-bcc-7.65.16.23-15.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 6.3.10 Hot Fix System_Manager_R6.3_FP4_SP10_HF_4712808.bin and higher (on SMGR 6.3.8 Hot Fix is available: System_Manager_R6.3_FP4_HF_4502626.bin).

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SU ID	Special Instructions for Each SU
cs1000-csmWeb-7.65.16.23-2.i386.000	This patch requires patches Jboss-Quantum-7.65.16.22-1 and cs1000-shared-tpselect-7.65.16.23-1 or higher to be installed.
cs1000-csv-7.65.16.23-4.i386.000	1. This patch should be used with MPLR33062. Please refer to the document supplied by Avaya for usage details. 2. If it is required to use the mutual authentication for DTLS, please also install following SUs/patches or newer ones: cs1000-tps-7.65.16.23-20.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-dmWeb-7.65.16.23-5.i386.000	This patch requires: * patch Jboss-Quantum-7.65.16.23-5 * patch cs1000-linuxbase-7.65.16.23-30 or higher to be installed.
cs1000-emWeb_6-0-7.65.16.23-7.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-nrsm-7.65.16.23-1.i386.000	This patch requires patch Jboss-Quantum-7.65.16.22-1 or higher to be installed.
cs1000-linuxbase-7.65.16.23-30.i386.000	1. Please note that this patch must be installed before Service Pack. 2. 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 3. Please note that tzdata-2015a-1.el5.i386 or newer is required for this SU. 4. If it is required to mitigate risks related to CVE-2013-5211, please reconfigure NTP after installation of this SU. 5. 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. 6. 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.
cs1000-numgrp-7.65.16.23-3.i386.000	This patch requires patch cs1000-Jboss-Quantum-7.65.16.22-3 or higher to be installed.

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SU ID	Special Instructions for Each SU
cs1000-tps-7.65.16.23-20.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-7.65.16.23-4.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-7.65.16.23-104.i386.000	The patch should be used with MPLR32674, MPLR33274, MPLR33382, MPLR33501, MPLR33506, MPLR33551 and cs1000-shared-pbx-7.65.16.23-1.
submgr-2.3.0-11.noarch.000	This patch requires patch cs1000-Jboss-Quantum-7.65.16.22-3 or higher to be installed
cs1000-shared-pbx-7.65.16.23-2.i386.000	1. MPLR33274 must be installed together with this SU, and the Signaling Server must be rebooted after this SU is put in service. 2. If it is required to use the mutual authentication for DTLS, please also install next SUs or newer ones: cs1000-csv-7.65.16.23-1.i386.000 and cs1000-tps-7.65.16.23-16.i386.000
cs1000-mscAttn-7.65.16.23-8.i386.000	The following patches(or higher version) must be in service together: p33080_1; cs1000-mscAnnc-7.65.16.22-1; cs1000-mscMusc-7.65.16.22-1; cs1000-mscConf-7.65.16.22-1; cs1000-mscTone-7.65.16.22-1; cs1000-mscAttn-7.65.16.22-1.
cs1000-mscAnnc-7.65.16.23-1.i386.000	The following patches(or higher version) must be in service together: p33080_1; cs1000-mscAnnc-7.65.16.22-1; cs1000-mscMusc-7.65.16.22-1; cs1000-mscConf-7.65.16.22-1; cs1000-mscTone-7.65.16.22-1; cs1000-mscAttn-7.65.16.22-1.
cs1000-mscConf-7.65.16.23-1.i386.000	The following patches(or higher version) must be in service together: p33080_1; cs1000-mscAnnc-7.65.16.22-1; cs1000-mscMusc-7.65.16.22-1; cs1000-mscConf-7.65.16.22-1; cs1000-mscTone-7.65.16.22-1; cs1000-mscAttn-7.65.16.22-1.
cs1000-mscMusc-7.65.16.23-1.i386.000	The following patches(or higher version) must be in service together: p33080_1; cs1000-mscAnnc-7.65.16.22-1; cs1000-mscMusc-7.65.16.22-1; cs1000-mscConf-7.65.16.22-1; cs1000-mscTone-7.65.16.22-1; cs1000-mscAttn-7.65.16.22-1.
cs1000-mscTone-7.65.16.23-1.i386.000	The following patches(or higher version) must be in service together: p33080_1; cs1000-mscAnnc-7.65.16.22-1; cs1000-mscMusc-7.65.16.22-1; cs1000-mscConf-7.65.16.22-1; cs1000-mscTone-7.65.16.22-1; cs1000-mscAttn-7.65.16.22-1.
jdk-1.6.0_115-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.

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SU ID	Special Instructions for Each SU
kernel-2.6.18-409.el5.i686.000	1. This SU is applicable to CPPM based Signaling Servers only. 2. Please note that a reboot is required after installation of this SU. 3. cs1000-linuxbase-7.65.16.23-6 or newer is required for proper installation. 4. cppmUtil-7.65.16.23-3 or newer is required for proper work.
kernel-PAE-2.6.18-409.el5.i686.000	1. This SU is not applicable to CPPM based Signaling Servers. 2. Please note that a reboot is required after installation of this SU. 3. cs1000-linuxbase-7.65.16.23-6 or newer is required for proper installation. 4. cppmUtil-7.65.16.23-3 or newer is required for proper work.
p33584_1	A reboot of the server is recommended after installation of this patch due to necessity to restart system services and CS1000 applications. Please note that uninstallation of the patch will not lead to recovery of the previous glibc/nscd packages.

Fixes delivered to MC32/MC32S Service Pack 8

- 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 ***”

Table 5: 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

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Patch ID	Title	Patch Category
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
MPLR33564	Use of macshow command leads to issues with access to PROM	MC32S
MPLR33587	SECURITY: Required to eliminate VxWorks RPC security vulnerability (CVE-2015-7599)	SMC, MC32S
MPLR33611	dsplooptest fails with 'Enable Orig Fail' reason *** THIS PATCH IS NOT APPLICABLE TO MC32 ***	MC32S

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Table 6: Fixes Delivered for MGC Service Pack 8

Loadware	Fix delivered
MGCCDC07	1. MPLR33564 - CS1000-7034 ---------- Use of macshow command leads to issues with access to PROM 2. MPLR33587 - CS1000-7086 ---------- SECURITY: Required to eliminate VxWorks RPC security vulnerability (CVE-2015-7599) 3. MPLR33609 - CS1000-7133 ---------- MGC logs and CDR reports are mixed on remote MGC TTYs (ports 1 and 2) 4. MPLR33611 - CS1000-7136 ---------- dsplooptest fails with 'Enable Orig Fail' reason

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Known Limitations and Operational Assistance

Limitations for the related software

- 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.
- MAS 7.0 cannot be deployed on the new (CSR3) base system. Note also that MAS 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.

SMGR 6.3.17 hot fix installation

Please refer to a following product support notice for information regarding fixes delivered with System_Manager_6.3.17_Patch2_r5415180 hotfix and appropriate installation instructions.

https://downloads.avaya.com/css/P8/documents/101027592

SMGR 7.0.1 hot fix installation

Please refer to a following product support notice for information regarding fixes delivered with System_Manager_7.0.1.0_Patch1_r701065071 hotfix and appropriate installation instructions.

https://downloads.avaya.com/css/P8/documents/101027589

IMPORTANT NOTE FOR CS1000 CUSTOMERS USING SUBSCRIBER MANAGER

A problem has been identified in SP8 (which was introduced in SP8). The connectivity between Subscriber Manager and Call Server is broken. The result is that data becomes out of sync between SubM/Element Manager and Call Server, which leads to wrong name shown on the phone when calling the affected DN(s).

Workaround is a manual CPND change in the Call Server overlay.

A fix for the issue is available and is included in the following SU (it must be installed on any Linux server where EM is deployed):

cs1000-bcc-7.65.16.23-16.i386.000

This SU is available for download from ESPL, as an individual LTD patch/SU, as follows:

- ESPL
- Serviceability Updates and Loadware/Firmware Distribution Tools (CS1000)
- SU/LW/FW File Search
- Product=Linux; Release=7.65.16.00; Application=BCC
- SU=cs1000-bcc-7.65.16.23-16.i386.000
- SEARCH

Select and download the SU from ESPL.

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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
CS1K0000326	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 http://support.avaya.com.
- 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.

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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 http://support.avaya.com.
- 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

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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://support.avaya.com/CompatibilityMatrix/Index.aspx

The Communication Server 1000 Release 7.6 product compatibility matrix is located on Avaya's http://support.avaya.com site under the **Overview** content type in the Communication Server 1000 Release 7.6 Downloads & Documents section.

R7.6 Service Pack 8 aligns with Avaya Aura® 6.2 FP4 as well as Avaya Aura® 7.0 – please reference PSN 3995 (CS1000 interop with Avaya Aura) for ongoing updates

https://downloads.avaya.com/css/P8/documents/100172333

System Manager 6.3.17 and 7.0.1

Session Manager 6.3.17 and 7.0.1

Presence Services 6.2.7 and 7.0.1

Communication Manager 6.3.14 and 7.0.1

Core Software Element	Version Number
Unified Communications Manager	7.65.16. version (02.30.0102.00)
Call Server	X210765P
PSWV	100
Linux Base & Applications	7.65.16
Subscriber Manager (in Linux Apps Image)	submgr-2.3.0-11
IP Media (AMS 7.0 Element) (included in Linux image)+ QFE-platform 1-12 patches and QFE-EM 1 patch *(Note that AMS 7.0 is end of software support as per PSN 3499)*	7.0 (7.0.0.623)
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 SP8
3902	84	
3903	91	
3904	94	
3905	94	

IP Client Model Number	Firmware ID	Firmware
IP Phone 2004 Phase 0/1	0602	B76
IP Phone 2004 Phase 2	0604	DCO
IP Phone 2002 Phase 1	0603	B76
IP Phone 2002 Phase 2	0x02	DCO

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IP Client Model Number	Firmware ID	Firmware
IP Phone 2001 Phase 2	0x02	DCO
IP Audio Conference Phone 2033	*2310	S96
IP Phone 2007 Phase 2	*0621	C94
IP Phone 1110	*0623	C94
IP Phone 1120E	*0624	C94
IP Phone 1140E	*0625	C94
IP Phone 1150E	*0627	C94
IP Phone 1165E	*0x26	C94
IP Phone 1210	*0x2a	C94
IP Phone 1220	*0x2a	C94
IP Phone 1230	*0x2a	C94
B179 SIP Conference phone		SIP 2.4 SP1

Note:

1. B76 is at End of life. 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

MGC Loadware	X21 0765P PSWV100	RELEASED WITH SP
CSP	DC06	DC07
MSP	AB02	
APP	BA18	
FPGA (MGCF)	AA22	
BOOT	BA18	
DSP1	AB07	
DSP2	AB07	
DSP3	AB07	
DSP4	AB07	
DSP6	AB07	
Other Loadware		
UDTC	AB31	
MGP	1.01.38	
FIJI	V29	

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LOADWARE	X21 0765P 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
MPHA (MPH)	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

LOADWARE	X21 0765P 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

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