

Patch Upgrade Procedure for Cisco PGW 2200 Softswitch Release 9.6 and Later

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Introduction

This document describes how to upgrade the Cisco PGW 2200 Softswitch Release 9.6 and later versions with new software patches.

Note: In older PGW 2200 versions, such as release 7.x, the upgrade process was performed with the Sun Solaris commands **pkgadd** and **pkgrm**. These Sun Solaris commands must not be issued with Cisco PGW 2200 Softswitch Release 9.2 and later versions. A new script called 'patch' does the job, as described in this document.

Prerequisites

Requirements

Help us help you.

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Fair

Poor

This document solved my problem.

Yes

No

Just browsing

Suggestions for improvement:

(256 character limit)

Cisco recommends that you have knowledge of these topics:

- [Cisco PGW 2200 Softswitch Release 9](#)
- [Cisco PGW 2200 Softswitch Product Troubleshoot and Alerts](#)
- [MGC Node Solaris 8 Packages Software Download](#) ([registered](#) customers only)

A new directory is created at the time of initial base software installation in Cisco PGW 2200 Softswitch Release 9.2 and later. The directory is called **/opt/SW**. The user is expected to download all new patches from the [Voice Downloads](#) ([registered](#) customers only) into this location. Also, a new shell script '**patch**' is provided with the standard installation and is installed in the **/opt/SW** directory.

Here are the prerequisites for this procedure:

- **Note:** Starting from 9.8(1) Patch 5, before the upgrade, make sure the TimesTen daemon is running on both active and standby Cisco PGW 2200 Softswitches. If the TimesTen daemon is not running, use the **/etc/init.d/tt start** command with the root privilege.
- **Note:** Starting from 9.8(1) Patch 5, it is suggested that you use **./backupDb.sh ttbackup.tar** on both active and standby Cisco PGW 2200 Softswitches in order to back up the TimesTen database before the upgrade. The script is located in the **/opt/CiscoMGC/local** folder.
- Verify the directory **/opt/SW** is present on the active and the standby PGW 2200.
- Verify that the two files called '**patch**' and '**admin.file**' are present in the directory **/opt/SW**.
- Download the appropriate PGW 2200 patches from the [Voice Downloads](#) ([registered](#) customers only) to the **/opt/SW** directory in the active and the standby PGW 2200. Make sure the appropriate protocol and system patches are downloaded. Take a look at these:
 - [Patch combination for 9.6\(1\)](#)
 - [Patch combination for 9.7\(3\)](#)
 - [Patch combination for 9.8\(1\)](#)
- Make sure that the **decode<version_number>.pl** file is downloaded from the [Voice Downloads](#) ([registered](#) customers only) to the **/opt/SW** directory.
- Make sure that the two PGW 2200s do not synchronize their configurations during the upgrade.

In order to do this in both PGW 2200s, edit the file `/opt/CiscoMGC/etc/XECfgParm.dat` and set the parameter `pom.dataSync` to `false`. You must set `pom.dataSync` to `false` on the active and standby pair of Cisco PGW 2200 Softswitches before you perform the live upgrade. If you modify the `pom.dataSync` variable, make sure you save the file, `/opt/CiscoMGC/etc/XECfgParm.dat`. You do not have to restart the Cisco PGW 2200 Softswitch after the modification of this variable.

This ensures that one of the two PGW 2200s retains the old configuration and patch level, so that there is a way to return if something goes wrong.

Components Used

The information in this document is based on Cisco PGW 2200 Softswitch Release 9.7(3).

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

For more information on document conventions, refer to the [Cisco Technical Tips Conventions](#).

Cisco PGW 2200 Patch Upgrade Procedure

The first step in this procedure is to upgrade the standby PGW 2200 with the new patches while you ensure the active PGW 2200 continues to carry the traffic until the standby is upgraded to the latest version.

1. Issue the `rtrv-ne` command in `mml` in order to check the status of the standby PGW 2200. The `mml` is the command line interface of the Cisco PGW 2200 Softswitch. Then verify that the current platform state is "STANDBY."

```
mgcusr@PGW2200-2% mml
```

```
Copyright © 1998-2008, Cisco Systems, Inc.
```

```
PGW2200-2> rtrv-ne
```

```
MGC-02 - Media Gateway Controller 2009-05-22  
01:47:26.795 EDT
```

```
M RTRV
  "Type:MGC"
  "Hardware platform:sun4u sparcsun4u,SUNW,UltraAX-i2"
  "Vendor:"Cisco Systems, Inc.""
  "Location:MGC-01 - Media Gateway Controller"
  "Version:"9.7(3)""
  "Platform State:STANDBY"
```

```
PGW2200-2>
```

2. Issue the **rtrv-alm**s and **rtrv-softw:all** commands in the mml, in order to check the alarm status and the software status..

If no error message is reported on software problems, proceed to step 3. Otherwise, try to understand the reason why the alarms are reported.

3. Exit the mml application. You can also shutdown the PGW 2200 application.

```
PGW2200-2> quit
mgcusr@PGW2200% cd /etc/init.d
mgcusr@PGW2200% pwd
/etc/init.d
mgcusr@PGW2200-2% exit
login as: root
Using keyboard-interactive authentication.
Password:
Last login: Fri May 22 01:26:17 2009 from 10.1.1.1
Sun Microsystems Inc. SunOS 5.10 Generic January
2005
# cd /etc/init.d# ./CiscoMGC stop

Signalling procm to shut down, with the pid = 1940
Sun Microsystems Inc. SunOS 5.10 Generic January
2005
...shutdown complete

#
```

4. Check again to see if all processes on mgcusr are down. Issue the UNIX command **ps -ef**.

```
#ps -ef | grep mgcusr
```

#

5. Before you install the new patches, check which patches you want to install at this time.

In the new naming convention, characters 5 and 6 describe the package contents, and the last three digits identify the patch number. For example, if the characters are equal to "012", this identifies the packages as Patch 12. In summary:

The protocol packages are labeled CSCOnnvvv:

- o **nn**—Indicates the specific protocols you need for your environment.
- o **vvv**—Indicates the version level of the patch.

An example of the patches for these protocol packages appears in this format:

```
CSC030012 - Patch 12 for protocol packages 30
CSC042012 - Patch 12 for protocol packages 42
```

Note: Install only the protocol patches you need. Issue the UNIX command **pkginfo** or the **./patch status** command under directory **/opt/SW** to check this out.

Note: Make sure the appropriate protocol and system patches were downloaded from these:

- o [Patch combination for 9.2\(2\)](#)
- o [Patch combination for 9.3\(2\)](#)
- o [Patch combination for 9.4\(1\)](#)
- o [Patch combination for 9.5\(2\)](#)
- o [Patch combination for 9.6\(1\)](#)
- o [Patch combination for 9.7\(3\)](#)
- o [Patch combination for 9.8\(1\)](#)

Note: Refer to the Release Notes for the latest patches and patch download URLs.

6. For the Cisco PGW 2200 Softswitch Release 9.7(3), download the patches and scripts from the [Software Download-Media Gateway Controller 9.7\(3\) Sparc Version](#). Create a folder, for example, s24p24, under /opt/SW directory to hold all the patch files. Copy all the downloaded patches and scripts to the /opt/SW/s24p24 directory. It must include these files:

```
C090703gs024.SPA
  C09070300024.SPA
  C09070301024.SPA
  C09070302024.SPA
  C09070310024.SPA
  C09070320024.SPA
  C09070330024.SPA
  C09070331024.SPA
  C09070332024.SPA
  C09070333024.SPA
  C09070340024.SPA
  C09070341024.SPA
  C09070342024.SPA
  C09070350024.SPA
  C09070360024.SPA
  C09070370024.SPA
  C09070371024.SPA
  C09070380024.SPA
  decode973sparc.pl
  patch973sparc.sh
```

Copy the **admin.file** to the folder you have created with this command:

```
cp /opt/SW/admin.file /opt/SW/s24p24
```

7. Under the /opt/SW/s24p24 directory, run **perl decode973sparc.pl** to decode encoded packages. You can choose to either decode the desired packages or decode all the packages at one time.

Note: For example, if you run this script with the package name, it decodes the assigned packages:

```
e.g. perl decode973sparc.pl C090703gs024.SPA
```

```
e.g. perl decode981sparc.pl C09080170005.SPA
```

Note: If you run this script with no package name under /opt/SW/s24p24, all the packages under this directory are decoded.

e.g. `perl decode973sparc.pl`

e.g. `perl decode981sparc.pl`

All the packages under this directory are renamed:

```
CSC0gs024.pkg
  CSC000024.pkg
  CSC001024.pkg
  CSC002024.pkg
  CSC010024.pkg
  CSC020024.pkg
  CSC030024.pkg
  CSC031024.pkg
  CSC032024.pkg
  CSC033024.pkg
  CSC040024.pkg
  CSC041024.pkg
  CSC042024.pkg
  CSC050024.pkg
  CSC060024.pkg
  CSC070024.pkg
  CSC071024.pkg
  CSC080024.pkg
```

8. Check that the patch script, the admin.file, and the recently downloaded patches are in the `/opt/SW/s24p24` directory.

In this example, you upgrade from PGW 2200 Softswitch Patch 12 to Patch 24.

```
mgcusr@PGW2200-2% pwd
/opt/SW/s24p24
mgcusr@PGW2200-2% ls -al
total 1885378
drwxrwxr-x   2 mgcusr   mgcgrp   1024 May 18 02:47 .
drwxr-xr-x  13 root     sys     512 Jan  4 2008 ..
-rw-rw-r--   1 mgcusr   mgcgrp  93227520 May 15 01:49
CSC000024.pkg
-rw-rw-r--   1 mgcusr   mgcgrp  21320192 May 15 02:53
CSC001024.pkg
-rw-rw-r--   1 mgcusr   mgcgrp  9137152 May 15 03:05
```

```

CSCO02024.pkg
-rw-rw-r-- 1 mgcusr  mgcgrp  49820672 May 15 05:18
CSCO10024.pkg
-rw-rw-r-- 1 mgcusr  mgcgrp  76101632 May 15 03:11
CSCO20024.pkg
-rw-rw-r-- 1 mgcusr  mgcgrp  61702144 May 15 05:03
CSCO30024.pkg
-rw-rw-r-- 1 mgcusr  mgcgrp  61044224 May 15 05:08
CSCO31024.pkg
-rw-rw-r-- 1 mgcusr  mgcgrp  79120384 May 15 05:13
CSCO32024.pkg
-rw-rw-r-- 1 mgcusr  mgcgrp  62429184 May 15 05:13
CSCO33024.pkg
-rw-rw-r-- 1 mgcusr  mgcgrp  60942336 May 15 01:50
CSCO40024.pkg
-rw-rw-r-- 1 mgcusr  mgcgrp  69136896 May 15 01:52
CSCO41024.pkg
-rw-rw-r-- 1 mgcusr  mgcgrp  17419776 May 15 02:49
CSCO42024.pkg
-rw-rw-r-- 1 mgcusr  mgcgrp  53905920 May 15 02:54
CSCO50024.pkg
-rw-rw-r-- 1 mgcusr  mgcgrp  31889920 May 15 02:53
CSCO60024.pkg
-rw-rw-r-- 1 mgcusr  mgcgrp  52454912 May 15 02:59
CSCO70024.pkg
-rw-rw-r-- 1 mgcusr  mgcgrp  47808512 May 15 03:05
CSCO71024.pkg
-rw-rw-r-- 1 mgcusr  mgcgrp  35650048 May 15 03:20
CSCO80024.pkg
-rw-rw-r-- 1 mgcusr  mgcgrp  81433088 May 15 03:29
CSCOgs024.pkg
-rwxrwxr-x 1 root    sys      205 Feb 16 2000
admin.file
-rw-rw-r-- 1 mgcusr  mgcgrp   2150 Mar  9 2007
decode973sparc.pl
-rw-r--r-- 1 root    other    1600 May 18 02:57
logs
-rwxrwxr-x 1 root    sys     16718 Jul 11 2008
patch973sparc.sh
mgcusr@PGW2200-2%

```

!--- This is the current patch level.

mgcusr@PGW2200-2% **pkginfo | grep CSCO**

application CSC000012 Controller Software	Cisco Media Gateway
application CSC001012 Controller Software	core system protocols Cisco Media Gateway
application CSC002012 Controller Software	Miscellaneous Protocols Cisco Media Gateway
application CSC010012 Controller Software	Miscellaneous Protocols Cisco Media Gateway
application CSC020012 Controller Software PRI	SS7 family protocols Cisco Media Gateway
application CSC030012 Controller Software Q761	family protocols Cisco Media Gateway
application CSC031012 Controller Software Q761	Version 1 family protocols Cisco Media Gateway
application CSC032012 Controller Software Q761	Version 1 family protocols Cisco Media Gateway
application CSC033012 Controller Software Q761	Version 1 family protocols Cisco Media Gateway
application CSC040012 Controller Software Q761	Version 1 Family protocols Cisco Media Gateway
application CSC041012 Controller Software Q761	Version 2 Protocol Family Cisco Media Gateway
application CSC042012 Controller Software Q761	Version2 Protocol Family Cisco Media Gateway
application CSC050012 Controller Software Q761	Version2 Protocol Family Cisco Media Gateway
	Version 3 Protocol Family

application CSC060012 Controller Software Q721	Cisco Media Gateway Protocol Family
application CSC070012 Controller Software Q767	Cisco Media Gateway Protocol Family
application CSC071012 Controller Software Q767	Cisco Media Gateway Protocol Family
application CSC080012 Controller Software Q931	Cisco Media Gateway Protocol Family
application CSC0ga000 Controller Software	Cisco Media Gateway Licensing Components
application CSC0ga001 Controller Software	Cisco Media Gateway Application
application CSC0ga002 Controller Software	Cisco Media Gateway Database Components
application CSC0ga003 Controller Software	Cisco Media Gateway SNMP Components
application CSC0ga004 Controller Software	Cisco Media Gateway Toolkit Applications
application CSC0ga005 Controller Software	Cisco Media Gateway Oracle/XML Parser tools
application CSC0gc001 Controller Software	Cisco Media Gateway Configuration & Data
Migration application CSC0gd004 Controller Software	Cisco Media Gateway SCTP Streams Module
application CSC0gs012 Controller Software	Cisco Media Gateway Patch Package
application CSC0gt001 Controller Software	Cisco Media Gateway Analyzer/Simulator

```

utilities    CSCOgu000      Cisco Media Gateway
Controller Software

Common Utilities & Libraries
utilities    CSCOh020      Media Gateway Controller
Security package compatible with Solaris 10

utilities    CSCOh021      Media Gateway Controller
Solaris 10 test for SPARC/Opteron

utilities    CSCOh022      Media Gateway Controller
Solaris 10 Patch Cluster

utilities    CSCOh023      Media Gateway Controller
Solaris 10 DiskSuite

utilities    CSCOh026      Media Gateway Controller PGW
Specific Solaris 10 packages

```

9. Rename the script **patch973sparc.sh** to **patch**.

```

mgcusr@PGW2200-2% mv patch973sparc.sh patch

```

```

mgcusr@PGW2200-2% ls -al
total 1885378
drwxrwxr-x  2 mgcusr  mgcgrp      1024 May 18 02:47 .
drwxr-xr-x 13 root    sys          512 Jan  4 2008 ..
-rw-rw-r--  1 mgcusr  mgcgrp     93227520 May 15 01:49
CSCO00024.pkg
-rw-rw-r--  1 mgcusr  mgcgrp     21320192 May 15 02:53
CSCO01024.pkg
-rw-rw-r--  1 mgcusr  mgcgrp     9137152  May 15 03:05
CSCO02024.pkg
-rw-rw-r--  1 mgcusr  mgcgrp     49820672 May 15 05:18
CSCO10024.pkg
-rw-rw-r--  1 mgcusr  mgcgrp     76101632 May 15 03:11
CSCO20024.pkg
-rw-rw-r--  1 mgcusr  mgcgrp     61702144 May 15 05:03
CSCO30024.pkg
-rw-rw-r--  1 mgcusr  mgcgrp     61044224 May 15 05:08
CSCO31024.pkg

```

```

-rw-rw-r-- 1 mgcusr mgcgrp 79120384 May 15 05:13
CSCO32024.pkg
-rw-rw-r-- 1 mgcusr mgcgrp 62429184 May 15 05:13
CSCO33024.pkg
-rw-rw-r-- 1 mgcusr mgcgrp 60942336 May 15 01:50
CSCO40024.pkg
-rw-rw-r-- 1 mgcusr mgcgrp 69136896 May 15 01:52
CSCO41024.pkg
-rw-rw-r-- 1 mgcusr mgcgrp 17419776 May 15 02:49
CSCO42024.pkg
-rw-rw-r-- 1 mgcusr mgcgrp 53905920 May 15 02:54
CSCO50024.pkg
-rw-rw-r-- 1 mgcusr mgcgrp 31889920 May 15 02:53
CSCO60024.pkg
-rw-rw-r-- 1 mgcusr mgcgrp 52454912 May 15 02:59
CSCO70024.pkg
-rw-rw-r-- 1 mgcusr mgcgrp 47808512 May 15 03:05
CSCO71024.pkg
-rw-rw-r-- 1 mgcusr mgcgrp 35650048 May 15 03:20
CSCO80024.pkg
-rw-rw-r-- 1 mgcusr mgcgrp 81433088 May 15 03:29
CSCOgs024.pkg
-rwxrwxr-x 1 root sys 205 Feb 16 2000
admin.file
-rw-rw-r-- 1 mgcusr mgcgrp 2150 Mar 9 2007
decode973sparc.pl
-rw-r--r-- 1 root other 1600 May 18 02:57
logs
-rwxrwxr-x 1 root sys 16718 Jul 11 2008
patch

```

```
mgcusr@PGW2200-2%
```

For PGW releases 9.8(1)S5P5 and later, proceed to step 10. For all the previous versions, proceed to step 11.

10. Use the **./delete_replication.sh** command on both active and standby Cisco PGW 2200 Softswitches in order to stop the TimesTen replication. The script is located in the **/opt/CiscoMGC/local** folder.
11. If there are no errors in step 9, start with the installation of the patches. Issue the **./patch all** command under the **/opt/SW/s24p24** directory.

You can choose to install the patch as given in the example below:

○

```
./patch all
```

```
!--- This will determine the most recent available  
patch,  
and automatically updates the system with that  
patch.
```

○

```
./patch system 024
```

```
!--- This will install the specified system patch
```

○

```
./patch protocol 024
```

```
!--- This will install the specified protocol patch
```

○

```
./patch system latest
```

```
!--- This will install the most recently  
downloaded system patch.
```

○

```
./patch protocol latest
```

```
!--- This will install the most recently  
downloaded protocol patch.
```

```
mgcusr@PGW2200-2% cd /opt/SW/s24p24
```

```
mgcusr@PGW2200-2% ./patch all
```

User [mgcusr] is still logged in or has running processes.

Processes:

```
5884 pts/1      0:01 tcsh
```

Please log [mgcusr] out or kill processes before uninstalling.

```
#
```

Note: For patch installation, you need to log out as mgcusr and log in again as root.

```
mgcusr@PGW2200-2% exit
```

```
login as: root
```

```
Using keyboard-interactive authentication.
```

```
Password:
```

```
Last login: Fri May 22 01:26:17 2009 from 10.1.1.1
```

```
Sun Microsystems Inc. SunOS 5.10 Generic January
```

```
2005# ./patch all
```

The following patches are about to be removed from your system:

```
CSC000012
```

```
CSC001012
```

```
CSC002012
```

```
CSC010012
```

```
CSC020012
```

```
CSC030012
```

```
CSC031012
```

```
CSC032012
```

```
CSC033012
```

```
CSC040012
```

```
CSC041012
```

```
CSC042012
```

```
CSC050012
```

```
CSC060012
```

```
CSC070012
```

CSC071012
CSC080012
CSC0gs012

These patch(es) are about to be added to your system
from the local directory:

CSC000024.pkg
CSC001024.pkg
CSC002024.pkg
CSC010024.pkg
CSC020024.pkg
CSC030024.pkg
CSC031024.pkg
CSC032024.pkg
CSC033024.pkg
CSC040024.pkg
CSC041024.pkg
CSC042024.pkg
CSC050024.pkg
CSC060024.pkg
CSC070024.pkg
CSC071024.pkg
CSC080024.pkg
CSC0gs024.pkg

Are you sure this add/remove scenario is correct? [y]
[y,n,?,q] **y**

Removal of <CSC000012> was successful.

Removal of <CSC001012> was successful.

Removal of <CSC002012> was successful.

Removal of <CSC010012> was successful.

Removal of <CSC020012> was successful.

Removal of <CSC030012> was successful.

Removal of <CSC031012> was successful.

Removal of <CSC032012> was successful.

Removal of <CSC033012> was successful.

Removal of <CSC040012> was successful.

Removal of <CSC041012> was successful.

Removal of <CSC042012> was successful.

Removal of <CSC050012> was successful.

Removal of <CSC060012> was successful.

Removal of <CSC070012> was successful.

Removal of <CSC071012> was successful.

Removal of <CSC080012> was successful.

Restoring saved /opt/CiscoMGC/bin/almM

Restoring saved /opt/CiscoMGC/bin/amDmpr

Restoring saved /opt/CiscoMGC/bin/ca

Restoring saved /opt/CiscoMGC/bin/cdrDmpr

Restoring saved /opt/CiscoMGC/bin/cfgM

Restoring saved /opt/CiscoMGC/bin/converter

Restoring saved /opt/CiscoMGC/bin/EISUP

Restoring saved /opt/CiscoMGC/bin/engine.no_smartalloc

Restoring saved /opt/CiscoMGC/bin/engine.smartalloc

Restoring saved /opt/CiscoMGC/bin/foverd

Restoring saved /opt/CiscoMGC/bin/get_trc.sh

Restoring saved /opt/CiscoMGC/bin/ioChanMgr

Restoring saved /opt/CiscoMGC/bin/ISDNIP

Restoring saved /opt/CiscoMGC/bin/ISDNL3

Restoring saved /opt/CiscoMGC/bin/IUA

Restoring saved /opt/CiscoMGC/bin/LogServerd

Restoring saved /opt/CiscoMGC/bin/M3UA

Restoring saved /opt/CiscoMGC/bin/measMgr

Restoring saved /opt/CiscoMGC/bin/MGCP

Restoring saved /opt/CiscoMGC/bin/mml

Restoring saved /opt/CiscoMGC/bin/mmSagt

Restoring saved /opt/CiscoMGC/bin/pom

Restoring saved /opt/CiscoMGC/bin/procM

Restoring saved /opt/CiscoMGC/bin/replicator

Restoring saved /opt/CiscoMGC/bin/sagt

Restoring saved /opt/CiscoMGC/bin/sim
Restoring saved /opt/CiscoMGC/bin/simWriter
Restoring saved /opt/CiscoMGC/bin/SIP
Restoring saved /opt/CiscoMGC/bin/sp
Restoring saved /opt/CiscoMGC/bin/SS7
Restoring saved /opt/CiscoMGC/bin/SUA
Restoring saved /opt/CiscoMGC/bin/TALI
Restoring saved /opt/CiscoMGC/bin/TCAP
Restoring saved /opt/CiscoMGC/lib/libcmg.so
Restoring saved /opt/CiscoMGC/lib/libconvutil.so
Restoring saved /opt/CiscoMGC/lib/libcxn.so
Restoring saved /opt/CiscoMGC/lib/libda.so
Restoring saved /opt/CiscoMGC/lib/libeng.so
Restoring saved /opt/CiscoMGC/lib/libengif.so
Restoring saved /opt/CiscoMGC/lib/libhelp.so
Restoring saved /opt/CiscoMGC/lib/libinf.so
Restoring saved /opt/CiscoMGC/lib/libpolbase.so
Restoring saved /opt/CiscoMGC/lib/libpolcomp.so
Restoring saved /opt/CiscoMGC/lib/libpolfiles.so
Restoring saved /opt/CiscoMGC/lib/libpolnuman.so
Restoring saved /opt/CiscoMGC/lib/libpolroute.so
Restoring saved /opt/CiscoMGC/lib/libpom.so
Restoring saved /opt/CiscoMGC/lib/libpxe.so
Restoring saved /opt/CiscoMGC/lib/libpxelog.so
Restoring saved /opt/CiscoMGC/lib/librmg.so
Restoring saved /opt/CiscoMGC/lib/librudp.so
Restoring saved /opt/CiscoMGC/lib/libsa.so
Restoring saved /opt/CiscoMGC/lib/libxe.so
Restoring saved /opt/CiscoMGC/local/config-lib
Restoring saved /opt/CiscoMGC/local/migrateTKGFile
Restoring saved /opt/CiscoMGC/etc/alarmCats.dat
Restoring saved /opt/CiscoMGC/etc/extNodeTypes.dat
Restoring saved /opt/CiscoMGC/etc/measCats.dat
Restoring saved /opt/CiscoMGC/etc/mmlCommands.dat
Restoring saved /opt/CiscoMGC/etc/propSet.xml.dat
Restoring saved /opt/CiscoMGC/etc/propVal.xsd.dat
Restoring saved /opt/CiscoMGC/etc/variant.dat
Restoring saved /opt/CiscoMGC/etc/CONFIG_LIB/new/
alarmCats.dat
Restoring saved /opt/CiscoMGC/etc/CONFIG_LIB/new/
extNodeTypes.dat
Restoring saved /opt/CiscoMGC/etc/CONFIG_LIB/new/
measCats.dat

Restoring saved /opt/CiscoMGC/etc/CONFIG_LIB/new/
mmlCommands.dat
Restoring saved /opt/CiscoMGC/etc/CONFIG_LIB/new/
properties.dat
Restoring saved /opt/CiscoMGC/etc/CONFIG_LIB/new/
propSet.xml.dat
Restoring saved /opt/CiscoMGC/etc/CONFIG_LIB/new/
propVal.xsd.dat
Restoring saved /opt/CiscoMGC/etc/CONFIG_LIB/new/
variant.dat
Restoring saved /opt/CiscoMGC/etc/CONFIG_LIB/CFG_sgp2/
alarmCats.dat
Restoring saved /opt/CiscoMGC/etc/CONFIG_LIB/CFG_sgp2/
extNodeTypes.dat
Restoring saved /opt/CiscoMGC/etc/CONFIG_LIB/CFG_sgp2/
measCats.dat
Restoring saved /opt/CiscoMGC/etc/CONFIG_LIB/CFG_sgp2/
mmlCommands.dat
Restoring saved /opt/CiscoMGC/etc/CONFIG_LIB/CFG_sgp2/
propSet.xml.dat
Restoring saved /opt/CiscoMGC/etc/CONFIG_LIB/CFG_sgp2/
propVal.xsd.dat
Restoring saved /opt/CiscoMGC/etc/CONFIG_LIB/CFG_sgp2/
variant.dat
Restoring saved /opt/CiscoMGC/etc/migrate/
migrate_9.3001_9.4001
Restoring saved /opt/CiscoMGC/etc/migrate/
migrate_cpp_4_5
Restoring saved /opt/CiscoMGC/etc/migrate/
migrate_cpp_5_6
Restoring saved /opt/CiscoMGC/.sw_config/mmlCommands.
xml
Backing out new file /opt/CiscoMGC/local/config-snmp
Restoring saved /opt/Toolkit/bytecode/cdr/EntryLimit.
tbc
Restoring saved /opt/Toolkit/bytecode/cdr/File.tbc
Restoring saved /opt/Toolkit/bytecode/cdr/position.dat
Restoring saved /opt/Toolkit/bytecode/cdr/presentation.
dat
Restoring saved /opt/Toolkit/bytecode/cdr/search.tbc
Restoring saved /opt/Toolkit/bytecode/toolbar/Toolbar.
tbc
Restoring saved /opt/Toolkit/bytecode/am/EntryLimit.tbc

Restoring saved /opt/Toolkit/bytecode/XECfg/XECfgParm.
tbc

Removal of <CSC0gs012> was successful.

Uncompressing ASP_NotRealProtocol.mdo

Uncompressing ASP_NotRealProtocol.so

Uncompressing CALLVER.mdo

Uncompressing CALLVER.so

Uncompressing CALLVER_GENERIC_ANALYSIS.mdo

Uncompressing CALLVER_GENERIC_ANALYSIS.so

Uncompressing CALLVER_LCM.mdo

Uncompressing CDR_MAN.mdo

Uncompressing CDR_MAN.so

Uncompressing CONNECTION_PLANE_MANAGER.mdo

Uncompressing CONNECTION_PLANE_MANAGER.so

Uncompressing EISUP.mdo

Uncompressing EISUP.so

Uncompressing EISUP_96VER.mdo

Uncompressing EISUP_96VER.so

Uncompressing ETS_300_172_SLAVE.mdo

Uncompressing ETS_300_172_SLAVE.so

Uncompressing GENERIC_ANALYSIS.mdo

Uncompressing GENERIC_ANALYSIS.so

Uncompressing IN_TRIGGER.mdo

Uncompressing IN_TRIGGER.so

Uncompressing LEG_CONTROLLER.mdo

Uncompressing LEG_CONTROLLER.so

Uncompressing LEG_CONTROLLER_H248V2.mdo

Uncompressing LEG_CONTROLLER_H248V2.so

Uncompressing LEG_CONTROLLER_MGCP.mdo

Uncompressing LEG_CONTROLLER_MGCP.so

Uncompressing cc.mdo

Uncompressing cc.so

Uncompressing dummy.mdo

Uncompressing dummy.so

Uncompressing lcm.mdo

Uncompressing lcm.so

Installation of <CSC000024> was successful.

Uncompressing BTNUP_BTNR167.mdo

Uncompressing BTNUP_BTNR167.so

Uncompressing BTNUP_IUP.mdo

Uncompressing BTNUP_IUP.so
Uncompressing DPNSS_BTNR188.mdo
Uncompressing DPNSS_BTNR188.so
Uncompressing QBE.mdo
Uncompressing QBE.so

Installation of <CSC001024> was successful.

Uncompressing IETF_SIP.mdo
Uncompressing IETF_SIP.so

Installation of <CSC002024> was successful.

Uncompressing ANSISS7_2K.mdo
Uncompressing ANSISS7_2K.so
Uncompressing ANSISS7_92.mdo
Uncompressing ANSISS7_92.so
Uncompressing ANSISS7_C2.mdo
Uncompressing ANSISS7_C2.so
Uncompressing ANSISS7_C3.mdo
Uncompressing ANSISS7_C3.so
Uncompressing ANSISS7_E1.mdo
Uncompressing ANSISS7_E1.so
Uncompressing ANSISS7_STANDARD.mdo
Uncompressing ANSISS7_STANDARD.so
Uncompressing GR317.mdo
Uncompressing GR317.so

Installation of <CSC010024> was successful.

Uncompressing ATT_41459.mdo
Uncompressing ATT_41459.so
Uncompressing ATT_41459_C2.mdo
Uncompressing ATT_41459_C2.so
Uncompressing BELL_1268.mdo
Uncompressing BELL_1268.so
Uncompressing BELL_1268_C2.mdo
Uncompressing BELL_1268_C2.so
Uncompressing ETS_300_102.mdo
Uncompressing ETS_300_102.so
Uncompressing ETS_300_102_C2.mdo
Uncompressing ETS_300_102_C2.so
Uncompressing ETS_300_172.mdo
Uncompressing ETS_300_172.so

Installation of <CSC020024> was successful.

Uncompressing ETS_300_121.mdo
Uncompressing ETS_300_121.so
Uncompressing ETS_300_356.mdo
Uncompressing ETS_300_356.so
Uncompressing HONGKONG.mdo
Uncompressing HONGKONG.so
Uncompressing ISUPV1_POLI.mdo
Uncompressing ISUPV1_POLI.so
Uncompressing Q761_ARGENTINA.mdo
Uncompressing Q761_ARGENTINA.so
Uncompressing Q761_ARGENTINA_C2.mdo
Uncompressing Q761_ARGENTINA_C2.so
Uncompressing Q761_AUSTRAL.mdo
Uncompressing Q761_AUSTRAL.so
Uncompressing Q761_AUSTRAL_C2.mdo
Uncompressing Q761_AUSTRAL_C2.so

Installation of <CSC030024> was successful.

Uncompressing Q761_BASE.mdo
Uncompressing Q761_BASE.so
Uncompressing Q761_BELG.mdo
Uncompressing Q761_BELG.so
Uncompressing Q761_BELG_97VER.mdo
Uncompressing Q761_BELG_97VER.so
Uncompressing Q761_CHILE.mdo
Uncompressing Q761_CHILE.so
Uncompressing Q761_CHINA.mdo
Uncompressing Q761_CHINA.so
Uncompressing Q761_CHINA_C2.mdo
Uncompressing Q761_CHINA_C2.so
Uncompressing Q761_DANISH.mdo
Uncompressing Q761_DANISH.so

Installation of <CSC031024> was successful.

Uncompressing Q761_97VER_BASE.mdo
Uncompressing Q761_97VER_BASE.so
Uncompressing Q761_97VER_RUSS.mdo
Uncompressing Q761_97VER_RUSS.so
Uncompressing Q761_97VER_RUSS_C2.mdo
Uncompressing Q761_97VER_RUSS_C2.so
Uncompressing Q761_GERMAN.mdo
Uncompressing Q761_GERMAN.so
Uncompressing Q761_INDIA.mdo

Uncompressing Q761_INDIA.so
Uncompressing Q761_KOREAN.mdo
Uncompressing Q761_KOREAN.so
Uncompressing Q761_NEWZEALAND.mdo
Uncompressing Q761_NEWZEALAND.so
Uncompressing Q761_PERU.mdo
Uncompressing Q761_PERU.so
Uncompressing Q761_PORTUGAL.mdo
Uncompressing Q761_PORTUGAL.so

Installation of <CSC032024> was successful.

Uncompressing Q761_99VER_AUSTRAL_C3.mdo
Uncompressing Q761_99VER_AUSTRAL_C3.so
Uncompressing Q761_99VER_BASE.mdo
Uncompressing Q761_99VER_BASE.so
Uncompressing Q761_MALAYSIAN.mdo
Uncompressing Q761_MALAYSIAN.so
Uncompressing Q761_SINGAPORE.mdo
Uncompressing Q761_SINGAPORE.so
Uncompressing Q761_SINGAPORE_C2.mdo
Uncompressing Q761_SINGAPORE_C2.so
Uncompressing Q761_TAIWAN.mdo
Uncompressing Q761_TAIWAN.so
Uncompressing Q761_THAILAND.mdo
Uncompressing Q761_THAILAND.so

Installation of <CSC033024> was successful.

Uncompressing ISUPV2_AUSTRIAN.mdo
Uncompressing ISUPV2_AUSTRIAN.so
Uncompressing ISUPV2_CZECH.mdo
Uncompressing ISUPV2_CZECH.so
Uncompressing ISUPV2_DUTCH.mdo
Uncompressing ISUPV2_DUTCH.so
Uncompressing ISUPV2_FINNISH96.mdo
Uncompressing ISUPV2_FINNISH96.so
Uncompressing ISUPV2_FRENCH.mdo
Uncompressing ISUPV2_FRENCH.so
Uncompressing ISUPV2_GERMAN.mdo
Uncompressing ISUPV2_GERMAN.so
Uncompressing ISUPV2_ISRAEL.mdo
Uncompressing ISUPV2_ISRAEL.so

Installation of <CSC040024> was successful.

Uncompressing ISUPV2_JAPAN.mdo
Uncompressing ISUPV2_JAPAN.so
Uncompressing ISUPV2_JAPAN_C2.mdo
Uncompressing ISUPV2_JAPAN_C2.so
Uncompressing ISUPV2_NORWEGIAN.mdo
Uncompressing ISUPV2_NORWEGIAN.so
Uncompressing ISUPV2_POLISH.mdo
Uncompressing ISUPV2_POLISH.so
Uncompressing ISUPV2_SPANISH.mdo
Uncompressing ISUPV2_SPANISH.so
Uncompressing ISUPV2_SPANISH_C2.mdo
Uncompressing ISUPV2_SPANISH_C2.so
Uncompressing ISUPV2_SWISS.mdo
Uncompressing ISUPV2_SWISS.so
Uncompressing ISUPV2_SWISS_C2.mdo
Uncompressing ISUPV2_SWISS_C2.so

Installation of <CSC041024> was successful.

Uncompressing ISUPV2_AUSTRIAN_C2.mdo
Uncompressing ISUPV2_AUSTRIAN_C2.so
Uncompressing ISUPV2_VIETNAM.mdo
Uncompressing ISUPV2_VIETNAM.so

Installation of <CSC042024> was successful.

Uncompressing ISUPV3.mdo
Uncompressing ISUPV3.so
Uncompressing ISUPV3_FRENCH.mdo
Uncompressing ISUPV3_FRENCH.so
Uncompressing ISUPV3_UK.mdo
Uncompressing ISUPV3_UK.so
Uncompressing ISUPV3_UK_C2.mdo
Uncompressing ISUPV3_UK_C2.so
Uncompressing ISUPV3_UK_C3.mdo
Uncompressing ISUPV3_UK_C3.so
Uncompressing ISUPV3_UK_C4.mdo
Uncompressing ISUPV3_UK_C4.so

Installation of <CSC050024> was successful.

Uncompressing Q721_BASE.mdo
Uncompressing Q721_BASE.so
Uncompressing Q721_BRAZILIAN.mdo
Uncompressing Q721_BRAZILIAN.so
Uncompressing Q721_BRAZILIAN_C2.mdo

Uncompressing Q721_BRAZILIAN_C2.so
Uncompressing Q721_CHINA.mdo
Uncompressing Q721_CHINA.so
Uncompressing Q721_FRENCH.mdo
Uncompressing Q721_FRENCH.so
Uncompressing Q721_PHILLIPINE.mdo
Uncompressing Q721_PHILLIPINE.so

Installation of <CSC060024> was successful.

Uncompressing Q767_AUSTRALIA.mdo
Uncompressing Q767_AUSTRALIA.so
Uncompressing Q767_BASE.mdo
Uncompressing Q767_BASE.so
Uncompressing Q767_BRAZIL.mdo
Uncompressing Q767_BRAZIL.so
Uncompressing Q767_BRAZIL_C2.mdo
Uncompressing Q767_BRAZIL_C2.so
Uncompressing Q767_COLOMBIA.mdo
Uncompressing Q767_COLOMBIA.so
Uncompressing Q767_GUATEMALA.mdo
Uncompressing Q767_GUATEMALA.so
Uncompressing Q767_INDONESIA.mdo
Uncompressing Q767_INDONESIA.so
Uncompressing Q767_ITAL.mdo
Uncompressing Q767_ITAL.so
Uncompressing Q767_ITAL_C2.mdo
Uncompressing Q767_ITAL_C2.so

Installation of <CSC070024> was successful.

Uncompressing Q767_MEXICAN.mdo
Uncompressing Q767_MEXICAN.so
Uncompressing Q767_NIGERIAN.mdo
Uncompressing Q767_NIGERIAN.so
Uncompressing Q767_RUSS.mdo
Uncompressing Q767_RUSS.so
Uncompressing Q767_RUSS_C2.mdo
Uncompressing Q767_RUSS_C2.so
Uncompressing Q767_SINGAPORE.mdo
Uncompressing Q767_SINGAPORE.so
Uncompressing Q767_SPAN.mdo
Uncompressing Q767_SPAN.so
Uncompressing Q767_SWED.mdo
Uncompressing Q767_SWED.so

Uncompressing Q767_TURKISH.mdo
Uncompressing Q767_TURKISH.so

Installation of <CSC071024> was successful.

Uncompressing Q931.mdo
Uncompressing Q931.so
Uncompressing Q931_AUSTRALIA.mdo
Uncompressing Q931_AUSTRALIA.so
Uncompressing Q931_SINGAPORE.mdo
Uncompressing Q931_SINGAPORE.so

Installation of <CSC080024> was successful.

Uncompressing EISUP
Uncompressing ISDNIP
Uncompressing ISDNL3
Uncompressing IUA
Uncompressing LogServerd
Uncompressing M3UA
Uncompressing MGCP
Uncompressing SIP
Uncompressing SS7
Uncompressing SUA
Uncompressing TALI
Uncompressing TCAP
Uncompressing almM
Uncompressing amDmpr
Installing ca
Uncompressing cdrDmpr
Uncompressing cfgM
Uncompressing converter
Installing engine.no_smartalloc
Installing engine.smartalloc
Uncompressing foverd
Installing get_trc.sh
Uncompressing ioChanMgr
Uncompressing measMgr
Uncompressing mmSAGt
Uncompressing mml
Uncompressing pom
Uncompressing procM
Uncompressing replicator
Uncompressing sagt
Installing sim

Installing simWriter
Installing sp
Installing alarmCats.dat
Installing extNodeTypes.dat
Installing measCats.dat
Installing mmlCommands.dat
Installing propSet.xml.dat
Installing propVal.xsd.dat
Installing variant.dat
Installing alarmCats.dat
Installing extNodeTypes.dat
Installing measCats.dat
Installing mmlCommands.dat
Installing propSet.xml.dat
Installing propVal.xsd.dat
Installing properties.dat
Installing variant.dat
Installing alarmCats.dat
Installing extNodeTypes.dat
Installing measCats.dat
Installing migrate_cpp_4_5
Installing migrate_cpp_5_6
Installing mmlCommands.dat
Installing propSet.xml.dat
Installing propVal.xsd.dat
Installing variant.dat
Installing libcmg.so
Installing libconvutil.so
Installing libcxn.so
Installing libda.so
Installing libeng.so
Installing libengif.so
Installing libhelp.so
Installing libinf.so
Installing libpolbase.so
Installing libpolcomp.so
Installing libpolfiles.so
Installing libpolnuman.so
Installing libpolroute.so
Uncompressing libpom.so
Uncompressing libpxe.so
Uncompressing libpxelog.so
Installing librmg.so

Uncompressing librudp.so
Installing libsa.so
Uncompressing libxe.so
Installing libexpect5.32.so
Updating parameters for CiscoMGC
Updating parameters for mmlCommands.xml
Updating parameters for migrate_9.3001_9.4001
Updating parameters for .dump-prov
Updating parameters for .master.cks
Updating parameters for config-lib
Updating parameters for config-snmp
Updating parameters for delete_replication.sh
Updating parameters for migrateTKGFile
Updating /opt/CiscoMGC/bin/almM
Updating /opt/CiscoMGC/bin/amDmpr
Updating /opt/CiscoMGC/bin/ca
Updating /opt/CiscoMGC/bin/cdrDmpr
Updating /opt/CiscoMGC/bin/cfgM
Updating /opt/CiscoMGC/bin/converter
Updating /opt/CiscoMGC/bin/EISUP
Updating /opt/CiscoMGC/bin/engine.no_smartalloc
Updating /opt/CiscoMGC/bin/engine.smartalloc
Updating /opt/CiscoMGC/bin/foverd
Updating /opt/CiscoMGC/bin/get_trc.sh
Updating /opt/CiscoMGC/bin/ioChanMgr
Updating /opt/CiscoMGC/bin/ISDNIP
Updating /opt/CiscoMGC/bin/ISDNL3
Updating /opt/CiscoMGC/bin/IUA
Updating /opt/CiscoMGC/bin/LogServerd
Updating /opt/CiscoMGC/bin/M3UA
Updating /opt/CiscoMGC/bin/measMgr
Updating /opt/CiscoMGC/bin/MGCP
Updating /opt/CiscoMGC/bin/mml
Updating /opt/CiscoMGC/bin/mmSAgt
Updating /opt/CiscoMGC/bin/pom
Updating /opt/CiscoMGC/bin/procM
Updating /opt/CiscoMGC/bin/replicator
Updating /opt/CiscoMGC/bin/sagt
Updating /opt/CiscoMGC/bin/sim
Updating /opt/CiscoMGC/bin/simWriter
Updating /opt/CiscoMGC/bin/SIP
Updating /opt/CiscoMGC/bin/sp
Updating /opt/CiscoMGC/bin/SS7

```
Updating /opt/CiscoMGC/bin/SUA
Updating /opt/CiscoMGC/bin/TALI
Updating /opt/CiscoMGC/bin/TCAP
Updating /opt/CiscoMGC/etc/alarmCats.dat
Updating /opt/CiscoMGC/etc/extNodeTypes.dat
Updating /opt/CiscoMGC/etc/measCats.dat
Updating /opt/CiscoMGC/etc/mmlCommands.dat
Updating /opt/CiscoMGC/etc/propSet.xml.dat
Updating /opt/CiscoMGC/etc/propVal.xsd.dat
Updating /opt/CiscoMGC/etc/variant.dat
Updating /opt/CiscoMGC/etc/CONFIG_LIB/new/alarmCats.dat
Updating /opt/CiscoMGC/etc/CONFIG_LIB/new/extNodeTypes.
dat
Updating /opt/CiscoMGC/etc/CONFIG_LIB/new/measCats.dat
Updating /opt/CiscoMGC/etc/CONFIG_LIB/new/mmlCommands.
dat
Updating /opt/CiscoMGC/etc/CONFIG_LIB/new/properties.
dat
Updating /opt/CiscoMGC/etc/CONFIG_LIB/new/propSet.xml.
dat
Updating /opt/CiscoMGC/etc/CONFIG_LIB/new/propVal.xsd.
dat
Updating /opt/CiscoMGC/etc/CONFIG_LIB/new/variant.dat
Updating /opt/CiscoMGC/etc/CONFIG_LIB/CFG_sgp2/
alarmCats.dat
Updating /opt/CiscoMGC/etc/CONFIG_LIB/CFG_sgp2/
extNodeTypes.dat
Updating /opt/CiscoMGC/etc/CONFIG_LIB/CFG_sgp2/measCats.
dat
Updating /opt/CiscoMGC/etc/CONFIG_LIB/CFG_sgp2/
mmlCommands.dat
Updating /opt/CiscoMGC/etc/CONFIG_LIB/CFG_sgp2/propSet.
xml.dat
Updating /opt/CiscoMGC/etc/CONFIG_LIB/CFG_sgp2/propVal.
xsd.dat
Updating /opt/CiscoMGC/etc/CONFIG_LIB/CFG_sgp2/variant.
dat
Updating /opt/CiscoMGC/etc/migrate/
migrate_9.3001_9.4001
Updating /opt/CiscoMGC/etc/migrate/migrate_cpp_4_5
Updating /opt/CiscoMGC/etc/migrate/migrate_cpp_5_6
Updating /opt/CiscoMGC/lib/libcmg.so
Updating /opt/CiscoMGC/lib/libconvutil.so
```

```
Updating /opt/CiscoMGC/lib/libcxn.so
Updating /opt/CiscoMGC/lib/libda.so
Updating /opt/CiscoMGC/lib/libeng.so
Updating /opt/CiscoMGC/lib/libengif.so
Updating /opt/CiscoMGC/lib/libhelp.so
Updating /opt/CiscoMGC/lib/libinf.so
Updating /opt/CiscoMGC/lib/libpolbase.so
Updating /opt/CiscoMGC/lib/libpolcomp.so
Updating /opt/CiscoMGC/lib/libpolfiles.so
Updating /opt/CiscoMGC/lib/libpolnuman.so
Updating /opt/CiscoMGC/lib/libpolroute.so
Updating /opt/CiscoMGC/lib/libpom.so
Updating /opt/CiscoMGC/lib/libpxe.so
Updating /opt/CiscoMGC/lib/libpxelog.so
Updating /opt/CiscoMGC/lib/librmg.so
Updating /opt/CiscoMGC/lib/librudp.so
Updating /opt/CiscoMGC/lib/libsa.so
Updating /opt/CiscoMGC/lib/libxe.so
Updating /opt/CiscoMGC/local/config-lib
Updating /opt/CiscoMGC/local/config-snmp
Updating /opt/CiscoMGC/local/delete_replication.sh
Updating /opt/CiscoMGC/local/migrateTKGFile
Updating /opt/CiscoMGC/snmp/measurement.my
Updating /opt/CiscoMGC/snmp/snmpinfo.dat
Updating /opt/CiscoMGC/.sw_config/mmlCommands.xml
Updating /opt/Toolkit/bytecode/cdr/EntryLimit.tbc
Updating /opt/Toolkit/bytecode/cdr/File.tbc
Updating /opt/Toolkit/bytecode/cdr/position.dat
Updating /opt/Toolkit/bytecode/cdr/presentation.dat
Updating /opt/Toolkit/bytecode/cdr/search.tbc
Updating /opt/Toolkit/bytecode/toolbar/Toolbar.tbc
Updating /opt/Toolkit/bytecode/log/EntryLimit.tbc
Updating /opt/Toolkit/bytecode/log/File.tbc
Updating /opt/Toolkit/bytecode/am/AlarmView.tbc
Updating /opt/Toolkit/bytecode/am/EntryLimit.tbc
Updating /opt/Toolkit/bytecode/tv/EntryLimit.tbc
Updating /opt/Toolkit/bytecode/XECfg/XECfgParm.tbc
```

Update proc-setid core flag.

Done.

Installation of <CSC0gs024> was successful

#

12. After successful installation of all patches, restart the PGW 2200 Softswitch application and check to make sure that all processes are up and running correctly.

```
#
# cd /etc/init.d
# ./CiscoMGC start
Application started
#
# ps -ef | grep mgcusr

  root   1967  16890   0 06:02:30 pts/1      0:00 grep
mgcusr
  mgcusr  1961   1940   1 06:02:11 ?           0:00 ../
bin/mmdbd -X 30007
  mgcusr  1944   1940   1 06:02:03 ?           0:00 ../
bin/cdrDmpr -X 30005
  mgcusr  1951   1940   1 06:02:06 ?           0:00 ../
bin/replicator -X 3000d -C ../etc/XECfgParm.dat -t
  mgcusr  1963   1940   1 06:02:12 ?           0:01 ../
bin/TCAP -X 30010
  mgcusr  1947   1940   1 06:02:04 ?           0:01 ../
bin/pom -X 30008
  mgcusr  1948   1940   1 06:02:04 ?           0:00 ../
bin/diskmonitor -X 30006
  mgcusr  1950   1940   3 06:02:06 ?           0:02 ../
bin/engine -X 3000e
  mgcusr  1946   1940   1 06:02:04 ?           0:00 ../
bin/measMgr -X 30003
  mgcusr  1940     1   1 06:01:58 ?           0:00 procM
  mgcusr  1945   1940   1 06:02:03 ?           0:00 ../
bin/cfgM -X 30001
  mgcusr  1931     1   0 06:01:57 ?           0:00 ../
bin/LogServerd -d
  mgcusr  1943   1940   1 06:02:03 ?           0:00 ../
bin/amDmpr -X 30004

# exit
```

13. Use the **mml** command in order to check the PGW 2200 Softswitch STANDBY status.

Note: After you restart the PGW 2200 Softswitch, the STATUS can be OOS for up to a couple of minutes. But then the status changes to STANDBY. If this is not the case, try to check the system

with an **mml** command. You can issue the **rtrv-softw:all** and **rtrv-alm**s commands, for example.

```
mgcusr@PGW2200-2% mml
```

```
Copyright © 1998-2008, Cisco Systems, Inc.
```

```
PGW2200-2 mml> rtrv-ne
```

```
;  
MGC-02 - Media Gateway Controller 2009-05-22  
02:17:58.091 EDT  
M RTRV  
"Type:MGC"  
"Hardware platform:sun4u sparc SUNW,UltraAX-i2"  
"Vendor:"Cisco Systems, Inc."  
"Location:MGC-02 - Media Gateway Controller"  
"Version:"9.7(3)" "  
"Platform State:STANDBY"
```

```
PGW2200-2 mml>
```

14. Check the software and alarm status:

```
PGW2200-2 mml> rtrv-softw:all
```

```
MGC-02 - Media Gateway Controller 2009-05-22  
02:19:14.006 EDT
```

```
M RTRV  
"CFM-01:RUNNING STANDBY"  
"ALM-01:RUNNING STANDBY"  
"MM-01:RUNNING STANDBY"  
"AMDMPR-01:RUNNING STANDBY"  
"CDRDMPR-01:RUNNING STANDBY"  
"DSKM-01:RUNNING IN N/A STATE"  
"MMDB-01:RUNNING IN N/A STATE"  
"POM-01:RUNNING STANDBY"  
"MEASAGT:RUNNING STANDBY"  
"OPERSAGT:RUNNING STANDBY"  
"mgcp-1:RUNNING IN N/A STATE"  
"Replic-01:RUNNING STANDBY"  
"ENG-01:RUNNING STANDBY"  
"IOCM-01:RUNNING STANDBY"  
"TCAP-01:RUNNING IN N/A STATE"  
"m3ua-1:RUNNING IN N/A STATE"
```

```
"FOD-01:RUNNING IN N/A STATE
```

```
PGW2200-2 mml> rtrv-alms  
PGW2200-2 mml> quit  
mgcusr@PGW2200%
```

15. In case of other problems, check the messages in the `/opt/CiscoMGC/var/log/platform.log` file. If you are not able to solve the problem, open a case with the [Cisco Technical Assistance Center \(TAC\)](#) and include the capture file of the upgrade patch process, in combination with the `platform.log` information.

Note: Do not upgrade the active system with the new patch level until the problem has been analyzed. If everything is all right, proceed to step 16.

16. Perform the same process again for the PGW 2200 Softswitch that is currently active. First switch over the active PGW to standby status:

```
PGW2200-1 mml> rtrv-ne  
MGC-02 - Media Gateway Controller 2009-05-22  
02:17:58.091 EDT  
M RTRV  
  "Type:MGC"  
  "Hardware platform:sun4u sparcsun4u,UltraAX-i2"  
  "Vendor:"Cisco Systems, Inc."  
  "Location:MGC-02 - Media Gateway Controller"  
  "Version:"9.7(3)"  
  "Platform State:ACTIVE"  
  ;  
PGW2200-1>  
PGW2200-1> sw-over::confirm  
  MGC-02 - Media Gateway Controller 2004-01-28  
09:56:56.883 GMT  
M COMPLD  
  "Proc Mgr"  
  ;  
PGW2200-1 mml>
```

```
!--- Note: The system comes into OOS  
!--- status for some time until the system comes to the  
final  
!--- Standby status. Do a rtrv-ne several times  
!--- in order to find out the final status. If the
```

```
status still remains
!--- in OOS, check the PGW 2200 alarm status
!--- with rtrv-alms.
```

```
PGW2200-1 mml> rtrv-ne
MGC-02 - Media Gateway Controller 2009-05-22
02:17:58.091 EDT
M RTRV
  "Type:MGC"
  "Hardware platform:sun4u sparc SUNW,UltraAX-i2"
  "Vendor:"Cisco Systems, Inc.""
  "Location:MGC-02 - Media Gateway Controller"
  "Version:"9.7(3)" "
  "Platform State:STANDBY"
PGW2200-1 mml>
```

Note: Check PGW2200-2, if this system is in ACTIVE mode.

17. If the system is in STANDBY mode, go to step 1 again and upgrade PGW 2200-1 with the new patches.

For PGW releases 9.8(1)S5P5 and later, proceed to step 18. For all the previous versions, proceed to step 19.

18. Start the TimesTen replication on the active and standby pair of Cisco PGW 2200 Softswitches. Refer to the [Initializing Database Replication](#) section of the [Cisco PGW 2200 Softswitch Release 9.8 Software Installation and Configuration Guide](#) for more information and instructions on how to start the replication.
19. After both PGW 2200 Softswitches have been upgraded, edit the `/opt/CiscoMGC/etc/XECfgParm.dat` file in both PGW 2200 Softswitches and set the parameter `pom.dataSync` to `true` in order to restore configuration synchronization.

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