



PointSystem Chassis Card Firmware Upgrade Procedure

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Firmware upgrades

CAUTION There is the potential for the card being upgraded to process data incorrectly during the firmware upgrade process or at device cold-start time. Failure to observe this caution could result in lost data or data corruption.

Introduction Upgrading the firmware on a PointSystem chassis card via the management module unit (MMU) involves:

- Connecting a PC/Laptop to the serial port on the MMU
- Launching the Hyperterminal software
- Knowing the location of the firmware bin file
- Entering super-user mode
- Initiating the upgrade using the 'sicupg' command

Upgrading firmware

To upgrade the software, do the following.

Step	Action
1.	Connect a serial cable from the PC/Laptop serial port to the serial port of the MMU. See Figure 1.

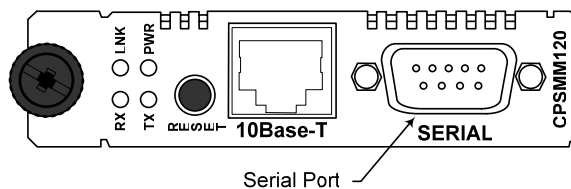


Figure 1: CPSMM-120 Management Module

2.	Launch the Hyperterminal software.
3.	Press the enter key to bring up the CPSMM100-120> prompt, as shown in Figure 2.

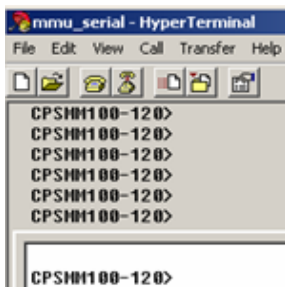


Figure 2: CPSMM100-120 CLI Prompt

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Firmware upgrades, continued**Enter Super-user mode**

To enter super-user mode, do the following:

Step	Action
4.	At the command CPSMM100-120> prompt, type: su=private or <i>(your password)</i>
5.	Press the ENTER key to enter super user mode. See Figure 3.

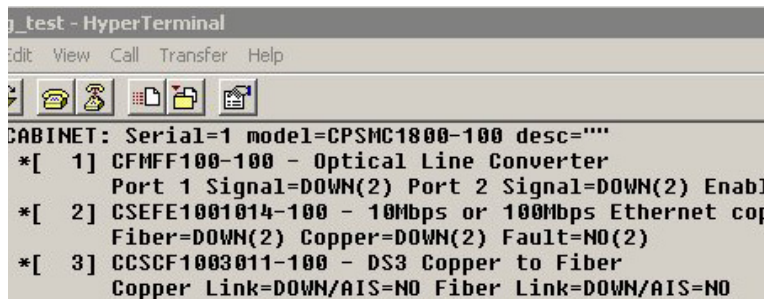
```
CPSMM100-120> su=private
Super-user mode on.
[su] CPSMM100-120>
```

Figure 3: Super-User [su] CPSMM100-120 Prompt

View chassis layout

To view the modules in the PointSystem chassis, do the following:

6.	At the command [su] CPSMM100-120> prompt type: stat
7.	Press the ENTER key to show the chassis slot layout. See Figure 4.



```
g_test - HyperTerminal
Edit View Call Transfer Help
CABINET: Serial=1 model=CPSMC1800-100 desc=""
* [ 1] CFMFF100-100 - Optical Line Converter
    Port 1 Signal=DOWN(2) Port 2 Signal=DOWN(2) Enabl
* [ 2] CSEFE1001014-100 - 10Mbps or 100Mbps Ethernet cop
    Fiber=DOWN(2) Copper=DOWN(2) Fault=NO(2)
* [ 3] CCSCF1003011-100 - DS3 Copper to Fiber
    Copper Link=DOWN/AIS=NO Fiber Link=DOWN/AIS=NO
```

Figure 4: PointSystem Chassis Module Slot Locations

Note: The firmware upgrade will be done on the CCSCF1003011-100 DS3 media converter in Slot 3.

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Firmware upgrades, continued**Load bin file**

To load the bin file using the 'sicxr' command, do the following:

Step	Action
8.	At the <code>[su] CPSMM100-120></code> prompt type: <code>sicxr</code> (<i>bin file is CCSCF100AE.BIN</i>)
9.	Press the ENTER key and a 'download' message will appear as shown in Figure 5.

```
CPSMM100-120> su=private
Super-user mode on.
[su] CPSMM100-120> sicxr
DOWNLOAD: You have entered the 'Load PIC Firmware Module' command.
Please begin XMODEM download, or press <ESC> five times to reboot.
CC
```

Figure 5: Load PIC Firmware Module Display

10.	On the hyperterminal 'transfer pulldown menu, select 'send file'' to bring up the 'send file' dialog box, as shown in Figure 6.
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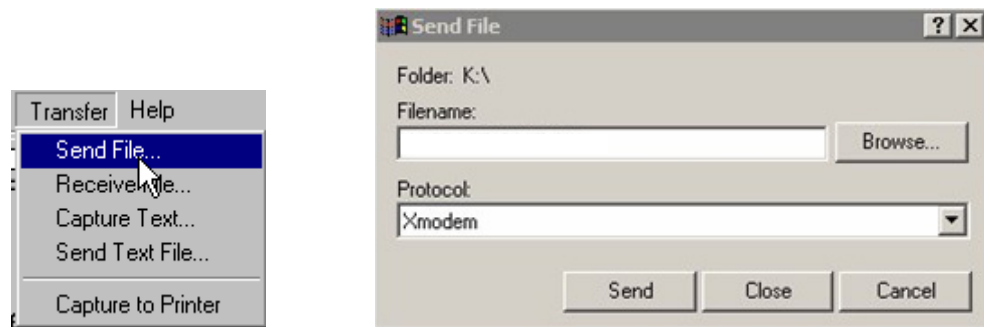


Figure 6: Send File Dialog Box

11.	On the 'send file' dialog box, select 'Xmodem' from the protocol pulldown menu.
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Firmware upgrades, continued

Load bin file (continued)

Step	Action
12.	Click the BROWSE button to locate the bin file, shown in Figure 7.

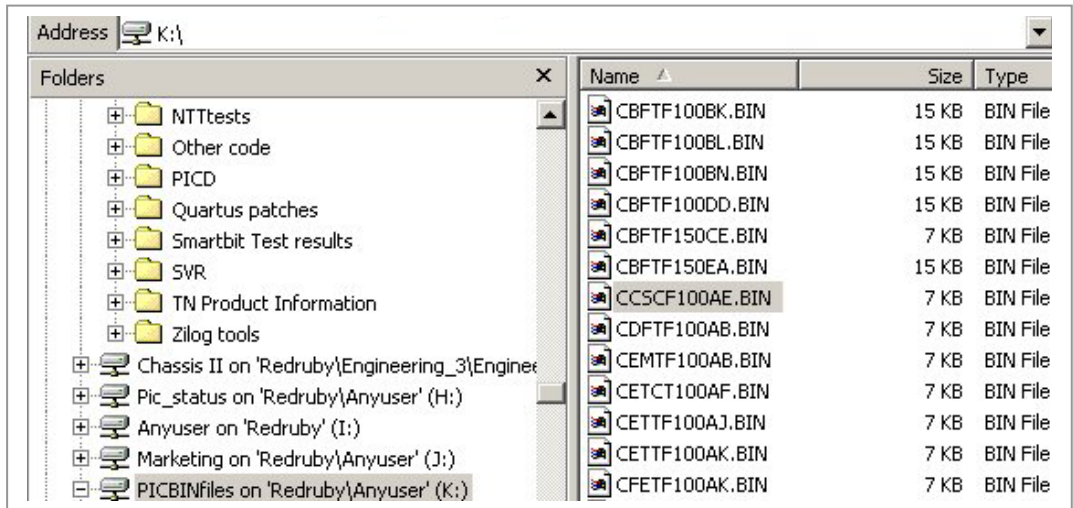


Figure 7: CCSCF100AE.BIN File Location

13.	Click the OK button to populate the 'Filename' name field on the 'send file' dialog box, as shown in Figure 8.
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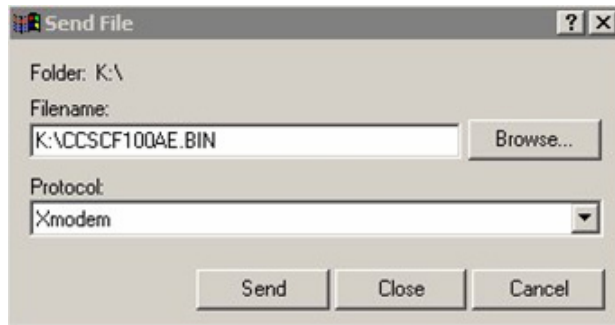


Figure 8: Send File Filename Field Populate with Bin File Name

14.	Click the SEND button on the 'send file' dialog box to start the file transfer process.
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Firmware upgrades, continued**Load bin file** *(continued)*

Step	Action
15.	After the bin file is successfully transferred, the MMU displays a “can now be upgraded with the SICUPG command” message, as shown in Figure 9.

```

DOWNLOAD: CCSCF100 devices can now be upgraded with the SICUPG command.
[su] CPSMM100-120>

```

Figure 9: Ready to Upgrade Firmware Message

Note: Firmware is for Model CSCSF100 Rev =A, refers to the Hardware Revision, NOT the PIC Revision.

**Upgrading
firmware**

To upgrade the firmware using the ‘sicupg’ command, do the following:

Step	Action
16.	At the [su] CPSMM100-120> prompt type: sicupg=1,3 <i>(where ‘1’ is the cabinet serial number and ‘3’ is the card slot number.)</i>

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Firmware upgrades, continued**Upgrading firmware** *(continued)*

Step	Action
17.	Press the ENTER key to start the firmware upgrade process and the MMU will display in-process status, as shown in Figure 10.

Note: Do not be alarmed if the media converter appears to drop from the chassis during upgrade, it would re-appear when the upgrade is finished.

```

I2C-I: Firmware upgrade of device s/n=1576597 is now 61% complete.
00:00:06:00 [su] CPSMM100-120>
I2C-I: Firmware upgrade of device s/n=1576597 is now 69% complete.

00:00:06:07 [su] CPSMM100-120>
I2C-I: Firmware upgrade of device s/n=1576597 is now 76% complete.

00:00:06:14 [su] CPSMM100-120>
I2C-I: Firmware upgrade of device s/n=1576597 is now 84% complete.

00:00:06:21 [su] CPSMM100-120>
I2C-I: Firmware upgrade of device s/n=1576597 is now 92% complete.

00:00:06:29 [su] CPSMM100-120>
I2C-I: Device Firmware Upgrade of s/n=1576597 completed

00:00:06:36 [su] CPSMM100-120>
SNMP: trap condition DEVICE-COLDSTART, NMS not configured.
  Object ID [17/0x11] cpsModuleModel.1.3
  Object ID [12/0xC] ccscf100Id
SNMP: Trap destination address not configured, trap not sent

00:00:06:38 [su] CPSMM100-120>

```

Figure 10: Firmware Upgrade Completed

Note: The firmware-upgraded device will auto COLDSTART after the firmware upgrade has completed, as shown in Figure 10.