

Upgrading Access Server Flashcard with Latest Software

UK

The following instructions outline the procedure (in exact order) to update a flashcard for various Xyplex access servers.

First: Retrieve the correct image for the access server you are upgrading. You must know the amount of memory installed in your access server before starting as that determines which version of software you'll use to upgrade your unit. V6.0.2 and higher require 4 meg of installed RAM. Check the label on the bottom of the unit for the Model #. An MX1640-004 is a 4 meg unit. For units that are online, you can obtain this information by issuing the following command:

```
Xyplex>> show server alternate status
```

```
Installed Memory: 4194304 bytes
```

Xyplex access servers and images:

```
mx1400a.sys - MX-1450
mx1500.sys - MX-1600, MX-1608 (1meg)
xpcs00s.sys - MX-1600, MX-1608 (2meg or greater)
xpcsrv20.sys - MX-1608A, MX-1620, MX-1640, N9-720
mcffs1.sys - Flash Card Loader image (must reside in AREA 1 on all flash
cards)
```

UNIX Host instructions:

1. Copy the image files to your UNIX host in binary mode. Move files into the tftp home directory. Verify that the file size is the same as the original on the FTP site. Change the file permissions to 777, and owner to nobody.
2. Ensure that TFTP is running on your UNIX host. Verify that you have a tftp daemon process running on your host by issuing a "grep" command on the tftpd process. The grep display usually points to the tftp home directory. Otherwise, type out your /etc/inetd.conf file to see if it is starting a tftp process and what directory it points to. Test tftp functionality. For example, say my UNIX hosts' address is 134.145.23.35. Issue the following command from another host:

```
tftp 134.145.23.35
tftp> get xpcsrv20.sys
```

If this is successful, proceed to the next step. If it fails, correct the tftp issue on your UNIX host.

Access Server Instructions (1608A, 1620, 1640, 720):

1. Display the contents of the flashcard by issuing the following command:

```
Xyplex>> show manager files
```

```
TS/720 V6.0.1 Rom 4A0000 HW 00.02.00 Lat Protocol V5.2 Uptime: 5 23:52:26  
Address:08-00-87-01-23-45 Name:X0123F4 Ethernet:A Number: 0
```

Files from directory /MC/SYSTEM

```
File Name   Version   Date      Time      Size  
MCFFS1.SYS  V2.10    31 Jan 1997 16:06:56 28672 bytes AREA 1 Size  
64856  
Available                                     AREA 2 Size 1506833  
XPCSRV20.SYS V6.0.1   06 Feb 1997 19:00:50 751104 bytes AREA 3 Size  
1572349  
2 files, 779776 bytes.
```

2. Make note of the areas in which those files you need to replace are located. You will need this information in order to copy the new image to the correct area on the flashcard.

If you get the error "memory card feature disabled," type the following command to enable the management features and reboot the server.

```
Xyplex>> define manager load enabled  
Xyplex>> init delay 0 (allows params to be saved before reboot)
```

3. Issue the following command to copy the image load file from the Unix host to the flashcard. x.x.x.x = the IP address of the UNIX host. Area x = the area you are copying file to on the flashcard.

```
Xyplex>> get card load file "mcffs1.sys" ip address 134.145.23.35 area 1  
Xyplex>> get card load file "xpcsrv20.sys" ip address 134.145.23.35 area 3
```

NOTE: If your tftp home directory is something other than /tftpboot, you may need to specify the path for the filename in the above command. For example, if your tftp home directory is /usr/tftpd, then issue the command as follows:

```
Xyplex>> get card load file "/usr/tftpd/mcffs1.sys" ip address 134.145.23.35  
area 1  
Xyplex>> get card load file "/usr/tftpd/xpcsrv20.sys" ip address 134.145.23.35  
area 3
```

4. Monitor the flashcard update process by issuing the following command:

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```
Xyplex>> monitor card status
Card Status:   Formatted / Write Enabled
Card Type:     Xyplex / FLASH / 2097152 bytes
Device Type:   Intel / 131072 bytes
Card State:    Idle
```

```
Get File Host: 134.145.23.35
Get File Name: xpcsrv20.sys
Get File Area: 3
```

```
Get File Current State: read network (and then write several times)
Get File Previous Status: None
```

When the card update has completed successfully, the screen displays will be as follows:

```
Card Status:   Formatted / Write Enabled
Card Type:     Xyplex / FLASH / 2097152 bytes
Device Type:   Intel / 131072 bytes
Card State:    Idle
```

```
Get File Host:
Get File Name:
Get File Area:
```

```
Get File Current State: Idle
Get File Previous Status: Get File Completed Successfully
```

5) Verify that the new files have been copied to the flashcard as follows:

```
Xyplex>> show manager files
```

```
TS/720 V6.0.1 Rom 4A0000 HW 00.02.00 Lat Protocol V5.2 Uptime: 5 23:52:26
Address:08-00-87-01-23-45 Name:X0123F4 Ethernet:A Number: 0
```

```
Files from directory /MC/SYSTEM
```

File Name	Version	Date	Time	Size
MCFFS1.SYS	V2.11	31 Jan 1997	16:06:56	28800 bytes
AREA 1 Size	64856			
Available				AREA 2 Size
1506833				
XPCSRV20.SYS	V6.0.2S5	16 May 1997	10:00:04	752448 bytes
AREA 3				
Size	1572349			
2 files, 781248 bytes.				

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6. Reboot server in order to load new image.

```
Xyplex>> init delay 0
```

Updating Flashcards Used For MX-1600, MX-1608 and MX-1450 Units:

Please follow the previous instructions for obtaining the image files from the WEB site and placing them on your host. Due to firmware designs, these units do not store parameter files because they only have one area. Therefore, the flashcard must be re-formatted for every upgrade as follows:

```
Xyplex>> show manager files
```

Files from directory /MC/SYSTEM

File Name	Version	Date	Time	Size
MCFFS1.SYS	V2.10	24 Mar 1997	10:49:28	28672 bytes
XPCS00S.SYS	V6.0.1S77	24 Mar 1997	10:50:06	706304 bytes

2 files, 734976 bytes.

```
Xyplex>> format card
```

Xyplex format. WARNING all data will be lost.

Press <RETURN> to start format, any other key to abort.

Format in progress, please wait....(you will see progress in percentages until message "Format complete").

```
Xyplex>> show manager files
```

Xyplex -778- I/O error 2, directory or file not found (indicates that the flash card is now formatted and empty)

```
Xyplex>> get card load file "xpcs00s.sys" ip address 134.145.23.35
```

NOTE: You DO NOT have to issue a "get" command to copy the mcffs1.sys file down. It will be copied automatically.

```
Xyplex>> show manager files
```

Files from directory /MC/SYSTEM

File Name	Version	Date	Time	Size
MCFFS1.SYS	V2.11	13 May 1997	09:17:16	28800 bytes
XPCS00S.SYS	V6.0.2S5	13 May 1997	09:18:02	708032 bytes

2 files, 736832 bytes.

