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ASA Upgrading and Imaging a Hardware CX I

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[ASA Upgrading and Imaging a Hardware CX Module](#)



KB ID 0001025

Problem

Last time I had to do one of these the process was very straight forward, one command and the ASA got its new image from FTP, extracted it, and then installed it.



I had a CX module fail last week, and Cisco shipped me out a replacement. After installing it and running the setup, I needed to upgrade it (it will be managed by PRSM). It was running version 9.0.2 (probably been on the shelf a while!). And every time I tried to run a system upgrade it told me this, (regardless of what version I tried to install).

```
This package is not applicable to release 9.0.2.
```

If I tried to set a boot image in the ASA, I got the following errors:

```
Module 1 cannot be recovered.
```

```
OR
```

```
ERROR: Module in slot 1 does not support recovery
```

Well there is a boot image especially for the 5585-X CX module, so how do you use it?

Solution

Remember the ASA-SSP-CX unit is basically the same hardware as the ASA, you need to boot that card to ROMMON, then install the boot image via TFTP. Once that's loaded you can run setup and install the new software package.

1. As you can see this one's running a very old OS.

```
Petes-CX>show version

Cisco ASA CX Platform 9.0.2 (103)

Cisco Prime Security Manager 9.0.2 (103) for Petes-CX firewall

Petes-CX>
```

2. Reload the module and as it starts to boot, send a 'break' keystroke.

```
Petes-CX>system reload Are you sure you want to reload the system? [N]: y Broadcast message
from root (console) (Mon Jan 19 14:47:09 2015): The system is going down for reboot NOW! INIT:
SwitchingStopping OpenBSD Secure Shell server: sshdstopped /usr/sbin/sshd (pid 3862) .
Stopping Advanced Configuration and Power Interface daemon: no /usr/sbin/acpid found; none
killed stopping Busybox inetd: inetd... stopped inetd (pid 3875) done. Stopping Vixie-cron.
Stopping ntpd: stopped process in pidfile '/var/run/ntp.pid' (pid 3880) done Stopping
syslogd/klogd: done Deconfiguring network interfaces... done. Stopping CGroup Rules Engine
Daemon...stopped /usr/sbin/cgrulesengd (pid 3865)

Success CGRE[3865]: Stopped CGroup Rules Engine Daemon at Mon Jan 19 14:47:13 2015 Stopping
cgconfig service: Success Sending all processes the TERM signal... Sending all processes the
KILL signal... Unmounting remote filesystems... Deactivating swap... Unmounting local filesystems...
umount2: Device or resource busy

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The system is restarting...

CISCO SYSTEMS

Embedded BIOS Version 2.0(13)0 20:40:45 10/21/11

USB storage device found ... SMART eUSB USB Device

Total memory : 12 GB

Total number of CPU cores : 8

CPLD revision 0008h Cisco Systems ROMMON Version (2.0(13)0) #0: Fri Oct 21 20:01:34 CDT 2011

Use BREAK or ESC to interrupt boot.Use SPACE to begin boot immediately.Boot in 10 seconds.

Boot interrupted.

Management0/0 Link is UP MAC Address: 6c20.5658.928c

Use ? for help. rommon #0>
```

3. Remember in ROMMON mode you need to set up all the network settings to copy in the boot image (where 192.168.1.10 will be the CX, and .101 is the TFTP server).

Note: This is the BOOT image, it will have a .img file extension.

```
rommon #0> ADDRESS=192.168.1.10 rommon #1> SERVER=192.168.1.101 rommon #2> GATEWAY=192.168.1.1
rommon #3> IMAGE=asacx-boot-9.3.2.1-9.img rommon #4>
```

4. Make sure you can ping the TFTP server.

```
rommon #4> ping 192.168.1.101 Sending 20, 100-byte ICMP Echoes to 192.168.1.101, timeout is 4
seconds: !!!!!!!!!!!!!!!!!!!!!!! Success rate is 100 percent (20/20)
```

5. Issue a sync command, then start the transfer.

```

rommon #5> sync

Updating NVRAM Parameters...

rommon #6> tftp ROMMON Variable Settings: ADDRESS=192.168.1.10 SERVER=192.168.1.101
GATEWAY=192.168.1.1 PORT=Management0/0 VLAN=untagged IMAGE=asacx-boot-9.3.2.1-9.img CONFIG=
LINKTIMEOUT=20 PKTTIMEOUT=4 RETRY=20

tftp asacx-boot-9.3.2.1-9.img@192.168.1.010 via 192.168.1.1
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

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!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
Received 65605385 bytes

Launching TFTP Image...

Execute image at 0x14000 [STUB] Boot protocol version 0x209

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Starting syslogd/klogd: done Cisco ASA CX Boot Image 9.3.2.1

Petes-CX login: admin Password: *****

Cisco ASA CX Boot 9.3.2.1 (9) Type ? for list of commands Petes-CX-boot>

```

WARNING the following procedure will erase all the settings from your CX module

6. Partition the CX module drive. (This takes a long time, good time to put the kettle on!)

```

Petes-CX-boot>partition WARNING: You are about to erase all policy configurations and data.
You cannot undo this action. Are you sure you want to proceed? [y/n]:y Logical volume "data"
successfully removed Logical volume "var" successfully removed Logical volume "packages"
successfully removed

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Persistent partition is there so create symbolic link /etc/ntp.conf Persistent partition is
there so create symbolic link /etc/hosts Petes-CX-boot>

```

7. Run the basic setup.

```

Petes-CX-boot>setup

Welcome to Cisco Prime Security Manager Setup [hit Ctrl-C to abort] Default values are inside
[]

Enter a hostname [asacx]: Petes-CX Do you want to configure IPv4 address on management
interface?(y/n) [Y]: Y Do you want to enable DHCP for IPv4 address assignment on management
interface?(y/n) [N]: N Enter an IPv4 address [192.168.8.8]: 192.168.1.10 Enter the netmask
[255.255.255.0]: 255.255.255.0 Enter the gateway [192.168.8.1]: 192.168.1.1 Do you want to
configure static IPv6 address on management interface?(y/n) [N]: N Stateless autoconfiguration
will be enabled for IPv6 addresses. Enter the primary DNS server IP address: 192.168.1.20 Do
you want to configure Secondary DNS Server? (y/n) [n]: Y Enter the secondary DNS server IP
address: 192.168.1.21 Do you want to configure Local Domain Name? (y/n) [n]: Y Enter the local
domain name: petenetlive.com Do you want to configure Search domains? (y/n) [n]: Y Enter the
comma separated list for search domains: petenetlive.com Do you want to enable the NTP
service? [Y]: Y Enter the NTP servers separated by commas: 192.168.1.31,192.168.1.32 Do you
want to enable the NTP symmetric key authentication? [N]: N Please review the final
configuration: Hostname:Petes-CX Management Interface Configuration

IPv4 Configuration:static IP Address:192.168.1.10 Netmask:255.255.255.0 Gateway:192.168.1.1

```

```
IPv6 Configuration:Stateless autoconfiguration

DNS Configuration: Domain:petenetlive.com Search: petenetlive.com DNS Server: 192.168.1.20
192.168.1.21

NTP configuration: 192.168.1.31,192.168.1.32 CAUTION: You have selected IPv6 stateless
autoconfiguration, which assigns a global address based on network prefix and a device
identifier. Although this address is unlikely to change, if it does change, the system will
stop functioning correctly. We suggest you use static addressing instead.

Apply the changes?(y,n) [Y]: Y Configuration saved successfully! Applying... Restarting network
services... Restarting NTP service... Done. Press ENTER to continue... Petes-CX-boot>
```

8. You can now upgrade the [CX](#) module from [FTP](#).

Note: This is the **SYSTEM** image, it will have a .pkg extension.

```
Petes-CX-boot>system install ftp://192.168.1.101/asacx-sys-9.3.2.1-9.pkg Verifying..
Downloading.. Extracting.. Package Detail Description:Cisco ASA-CX 9.3.2.1-9 System Upgrade
Requires reboot:Yes

Do you want to continue with upgrade? [y]: y

Warning: Please do not interrupt the process or turn off the system. Doing so might leave
system in unusable state.

Upgrading.. Starting upgrade process .. Populating new system image.. Copying over new
application components.. Cleaning up old application components.. Reboot is required to
complete the upgrade. Press 'Enter' to reboot the system.

PRESS ENTER

Broadcast message from root (consoStopping OpenBSD Secure Shell server: sshdstopped
/usr/sbin/sshd (pid 2883)
```

9. After the module has reloaded, log in and make sure every thing is working.

```
Petes-CX login: admin
Password:*****

Cisco Prime Security Manager 9.3.2.1 (9) for Petes-CX firewall
Type ? for list of commands

Petes-CX>show services status
=====
Process          | PID   | Up    | Up Time
=====
HTTP Server      | 6139  | True  | 00:02:00
Data Plane       | 6665  | True  | 00:01:35
Opdata Helper    | 6299  | True  | 00:01:59
AD Interface     | 6674  | True  | 00:01:35
HW Regex Server  | 6572  | True  | 00:01:43
Message Nameserver| 6279  | True  | 00:01:59
HTTP Auth Daemon | 6469  | True  | 00:01:57
Management Plane | 6481  | True  | 00:01:57
signup          | 6347  | True  | 00:01:59
PDTS             | 6442  | True  | 00:01:59
Predictive Defense| 6679  | True  | 00:01:35
HTTP Inspector   | 6689  | True  | 00:01:35
HPM Monitor      | 6684  | True  | 00:01:35
Updater         | 7772  | True  | 00:00:19
Card Manager     | 6071  | True  | 00:02:00
ARP Daemon       | 6458  | True  | 00:01:58
Event Server     | 6512  | True  | 00:01:52
TLS Proxy        | 6719  | True  | 00:01:35
=====
Petes-CX>
```

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