

How to Upgrade UXM Bootcode

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Introduction

This document describes how to upgrade Universal Switching Module (UXM) bootcode, which is similar to upgrading firmware on any IGX card.

When you upgrade firmware that has a different boot code than the one currently running, you must upgrade the boot image before you upgrade the runtime firmware.

The following table lists the currently available firmware images and corresponding boot images:

Model	Firmware Revision	Corresponding Boot Image	
A	AAF	AA04	
	ABD	AB06	
B	ABE	AB06	
	ABF	AB06	
	ABJ	AB07	
	ABK	AB07	
	ABL	AB07	
	ABN	AB09	
	ABR	AB09	
	ABS	AB09	
	ABT	AB09	
	C	ACB	AC08
		ACC	AC08
ACE		AC08	
ACF		AC08	
ACH		AC08	
ACJ		AC08	

Before You Begin

Conventions

For more information on document conventions, see the Cisco Technical Tips Conventions.

Prerequisites

Readers of this document should be knowledgeable of the following:

- Uploading firmware to the IGX using Trivial File Transfer Protocol (TFTP)

Refer to the following documents for information on how to upload firmware to the IGX using TFTP:

- Using TFTP to Download Firmware to an IPX, IGX, or BPX
- General Firmware Download Information for the IPX, IGX, and BPX

Components Used

The information in this document is based on the software and hardware versions below.

- IGX 8420
- Switch software (SWSW) 9.3.36

The information presented in this document was created from devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If you are working in a live network, ensure that you understand the potential impact of any command before using it.

Upgrading the UXM Bootcode

This section describes how to upgrade and verify the UXM bootcode.

Step-by-Step Instructions

Complete the following steps to recognize the UXM bootcode files, verify the bootcode version on your UXM, and burn the new bootcode on to the UXM card:

1. Ensure that you are able to recognize the UXM bootcode files they are included with the UXM firmware which you can download from the Downloads. The following files are bootcode version 9 files for Model B firmware:
 - ◆ AB09.000 Bootcode
 - ◆ AB09.img Firmware image map
2. Verify the version of bootcode on your UXM use the **rsh slot-number sys ver** command. The number after the boot revision is the bootcode version.

Note: You must log in as **Service** or higher to execute the **rsh slot-number sys ver** command.

```
IGX-A          TN      Cisco          IGX 8410  9.3.36   Aug. 12 2002 14:03 GMT
fw revision:   28 (0x77)
creation date: Tue Jul 9 16:05:33 PDT 2002
boot revision: 07
```

```
!---This UXM is running bootcode version 7
```

```
gateway fwrev:    06w  
enhanced hw:     0
```

```
Last Command: rsh 6 sys ver
```

3. Load the UXM bootcode on to the IGX the dnld.fw file contains the following information when you upload the UXM bootcode using the TFTP method.

Note: You can use any method to upload the bootcode. This example uses TFTP because it is the most commonly used method.

```
Tftp_Request  
IP: 10.10.10.10  
!--- IP address of TFTP server storing the bootcode  
  
PathName: /ipxbpx  
!--- The path to where the files are located on the server  
  
CardName: UXM  
RevNum: AB09  
FileName: AB09  
!--- This is optional, but if included, it is case sensitive,  
  
!--- and needs to match the file name from step one (before the ".")
```

4. Use the **dspfwrev** command to verify that the bootcode is uploaded successfully to the IGX:

```
IGX-A      TN      StrataCom  IGX 8420  9.1.19   Aug. 12 2002 14:03 GMT  
  
Firmware      Size      Status  
UXM-A.B.09    42 K     Complete  
!--- Both the name and status appear on this line
```

```
File          Address      Length      CRC          Burn Address  
0             BFC00000    A620        B047225B
```

```
Last Command: dspfwrev
```

5. Use the **burnfwrev A.B.09 uxm-slot-number c** command to burn the bootcode onto the UXM

After a few minutes, the new bootcode should be burned onto the UXM. Proceed to the Verifying the Bootcode Upgraded Correctly section.

Verifying the Bootcode Upgraded Correctly

Use the **rsh slot-number sys ver** command to verify that your bootcode upgrade is correct. Is the UXM now running the new version of bootcode?

```
IGX-A      TN      Cisco IGX 8410  9.3.36   Aug. 12 2002 14:03 GMT  
fw revision:    28 (0x77)  
creation date:  Tue Jul 9 16:05:33 PDT 2002  
boot revision:  09  
!--- This UXM is now running bootcode version 9
```

```
gateway fwrev:    06w  
enhanced hw:     0
```

```
Last Command: rsh 6 sys ver
```

Related Information

- [Using TFTP to Download Firmware to an IPX, IGX, or BPX](#)
 - [General Firmware Download Information for the IPX, IGX, and BPX](#)
 - [Cisco WAN Switching Solutions – Cisco Documentation](#)
 - [Guide to New Names and Colors for WAN Switching Products](#)
 - [Downloads – WAN Switching Software](#)
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