



Performing a Cross-Protocol Upgrade

This section describes how to perform an upgrade from the SCCP signaling image to either the MGCP, SIP or H.323 signaling images.

You can configure the Cisco ATA to automatically download a new signaling image that the Cisco CallManager administrator has stored on the TFTP server. You do this by configuring the parameter *upgradecode* in your Cisco ATA configuration file. For more information about setting up the configuration file, see the [“Creating a Configuration File for a Specific Cisco ATA”](#) section on [page 3-11](#).

Syntax of upgradecode Parameter

```
upgradecode:3,0x301,0x0400,0x0200,tftp_server_ip,69,image_id,image_file_name
```

Definitions

- The hexadecimal values that precede the *tftp_server_ip* variable must always be the values shown in the syntax.
- *tftp_server_ip* is the TFTP server that contains the latest signaling image file.
- *image_id* is a unique 32-bit integer that differs with each upgrade. You can determine this 32-bit integer value by using the build date on the image file name and prepending it with "0x". For example, if the *image_file_name* is *ata186-v2-14-020514a.kxz*, then the build date is 020508a, and the *image_id* is 0x020508a).
- *image_file_name* is the signaling upgrade-image file name. The *image_file_name* format is:

```
ata186-v{M}-{N}-{yymmdd}{a-f}{ext}
```

 - - M is the major version number
 - - N is the minor version number (always two digits)
 - - *yymmdd* is a two-digit year, two-digit month, and two-digit day
 - - *a-f* is the build letter (- **yymmdd** and **a-f** together form the build date of the image)
 - - *ext* must be ".kxz" for upgrading from version 2.11 and below, and can be ".zup" for upgrading from version 2.12 and up for the Cisco ATA186, but it *must* be ".zup" for upgrading the Cisco ATA188.

Process

Whenever the Cisco CallManager administrator stores a new signaling image (denoted by a change to the *image_id*) on the TFTP server, the Cisco ATA updates its firmware with the new *image_file_name*. To contact the TFTP server, the Cisco ATA uses the TFTP server IP address that is contained within the value of the *upgradecode* parameter.

Example

The upgradecode parameter value could be:

```
upgradecode:3,0x301,0x0400,0x0200,192.168.2.170,69,0x020723a,ata186-v2-15-020723a.zup
```

This instructs the Cisco ATA to update its firmware to ata186-v2-15-020723a.zup by downloading the ata186-v2-15-020723a.zup file from the TFTP server IP address of 192.168.2.170. This download occurs after the Cisco ATA downloads its configuration file that contains the directive from the upgradecode parameter. Also, the upgrade occurs only if the internally cached image_id in Cisco ATA is different from the value 0x020723a.