

# ROMmon Recovery for the Cisco 4500 and 4700 Series Routers

Document ID: 15072

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## Introduction

This page describes the procedure to recover Cisco 4500 and 4700 Series Routers stuck in ROMmon (rommon# > prompt).

## Before You Begin

### Conventions

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

### Prerequisites

There are no specific prerequisites for this document.

### Components Used

The information in this document is based on the hardware versions below:

- Cisco 4500 and 4700 Series Routers

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.

## Looking for a Valid Image in Flash:

Follow the instructions provided below:

1. Issue the **dev** command to see which devices are available on your router:

```
rommon 1 > dev
Devices in device table:
  id  name
```

```
flash: flash
bootflash: boot flash
eprom: eprom
rommon 2 >
```

2. Issue the **dir flash:** command, and then look for a valid Cisco IOS® software image:

```
rommon 3 > dir flash:
File size           Checksum   File name
8052512 bytes (0x7adf20)  0xc7b6    c4500-js-mz.121-6
rommon 4 >
```

You can also use the **dir bootflash:** command to examine the bootflash for a valid boot image.

3. Try to boot from that image. If the file is valid, this brings you back to normal operation mode:

```
rommon 5 > boot flash:c4500-js-mz.121-6
program load complete, entry point: 0x80008000, size: 0x7ade04
Self decompressing the image : #####
#####
####...
```

4. If none of the files are valid, you need to download a new one. There is only one way to install an image on the Cisco 4500 and 4700 Series Routers if the main Cisco IOS software has been deleted or corrupted: use the router's boot image.

## Download Using the Boot Image and a Trivial File Transfer Protocol (TFTP) Server

For detailed instructions on this procedures, see [How to Upgrade from ROMmon Using TFTP with Boot Image](#).

If both the main image and the boot image are corrupted or deleted, there is no easy way to recover the router. Aside from a return materials authorization (RMA), the only other option is to swap flash single in-line memory modules (SIMMs) from another 4500 or 4700 router that has a valid boot image and a main Cisco IOS software.

## Related Information

- [4000 Series Routers Support Page](#)
- [Cisco IOS Technical Support Page](#)
- [Technical Support – Cisco Systems](#)

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Updated: Jan 23, 2008

Document ID: 15072

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