

Updating MNS-6K software on Magnum 6K Switches

Using Secure Web Management



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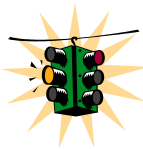
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Step 1 - Getting Started

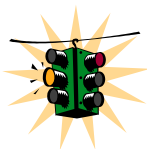
Getting started with TFTP or FTP services locally.....

This document describes how to upgrade the MNS-6K software on a Magnum 6K switch using Secure Web Management (SWM).



The software can be upgraded over the web using FTP services or TFTP service. **This is not recommended** as the software upload services could be interrupted and could cause undesirable effects on the Magnum switches.

The manual describes the process where there is a local FTP or TFTP server available. There are many flavors of TFTP/FTP servers available. The process of how to update the software and what to watch out for remains the same. Screen shots from the 3CDaemon Version 2.0 are included here for clarity.



Windows Servers, Linux or UNIX systems offer TFTP services. This document does not cover how to configure these services. It is assumed that the person is familiar with those.

Alternately, TFTP or FTP software can be downloaded from the web. A quick search on “TFTP server” on the web will yield sites where the TFTP server software for Windows 2000 or Windows XP can be downloaded from.

The next step is to download the proper version of the MNS-6K software. To do that, make sure the PC where the FTP or TFTP server software is running can access the web for ftp file downloads – specifically <ftp://ftp.garrettcom.com>.

Selecting the proper version

The first step is to ensure that you have the proper version of the MNS-6K software. To access the proper software, you will require access to the GarrettCom web site (and ftp site) through a

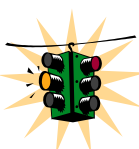
network which does not block ftp file transfers. If your site blocks ftp file transfer traffic, please contact your system administrator to figure out how to access the GarrettCom site to download the necessary software.

First determine the version of the software on your switch. To do that, use the command 'show version' after connecting to the switch and logging in as manager, with the proper password. If the password is lost or forgotten, please contact GarrettCom Inc customer support at Phone (510) 438-9071, email – support@garrettcom.com.

The table below lists the current MNS-6K version number and software version upgrade path for the MNS-6K.

Table 1 – Software upgrade matrix

Existing software version	Upgrade path	What to do
Version 1.0 to Version 3.1	Contact GarrettCom customer support to upgrade the software	
Version 3.1.x or higher	Latest version of MNS-6K	Download latest version of MNS-6K from ftp://ftp.garrettcom.com/ following the steps listed below



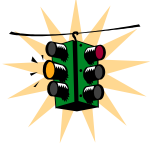
DO NOT USE SECURE WEB MANAGEMENT (SWM) INTERFACE AND THE TFTP COMMAND IN SWM TO UPDATE THE SWITCH UNLESS YOU ARE USING MNS-6K RELEASE 3.1 – BEFORE THIS RELEASE, TFTP COULD TIME-OUT CAUSING UNDESIREABLE EFFECTS ON THE SWITCH.

Downloading the MNS-6K software

To download the MNS-6K software, follow these simple steps:

- 1) Access GarrettCom’s FTP site through any standard browser <ftp://ftp.garrettcom.com>
 - a) (Note: Make sure the browser has – “enable the ftp view” option checked. For Internet Explorer it can be enabled by using the menu Tools→ Internet options → Advanced).
 - b) If the site uses another socket number for ftp connections, use the socket number at the end of the URL. For example, if the network administrator has setup a firewall to use socket number 1684, the URL would be as follows:
<ftp://ftp.garrettcom.com:1684>

- c) **NOTE** - You can use any other FTP program available on the Internet, including the 'ftp' command available on most operating systems instead of the browser for downloading the software.



Remember the file name and the directory where the MNS-6K software is stored. This will be needed later for the upgrade – irrespective of whether the MNS-6K software is updated via the serial port or over the network.

NOTE – the common error is to use <ftp://www.garrettcom.com> – **this URL will not work**. It will give you an error. Please use <ftp://ftp.garrettcom.com>

- 2) Once the connection is established, use the user login as **m6kuser** and the password as **m6kuser** – see Figure 1. If you have previously established a different login/password for the GarrettCom site, that login name and password can be used as well.

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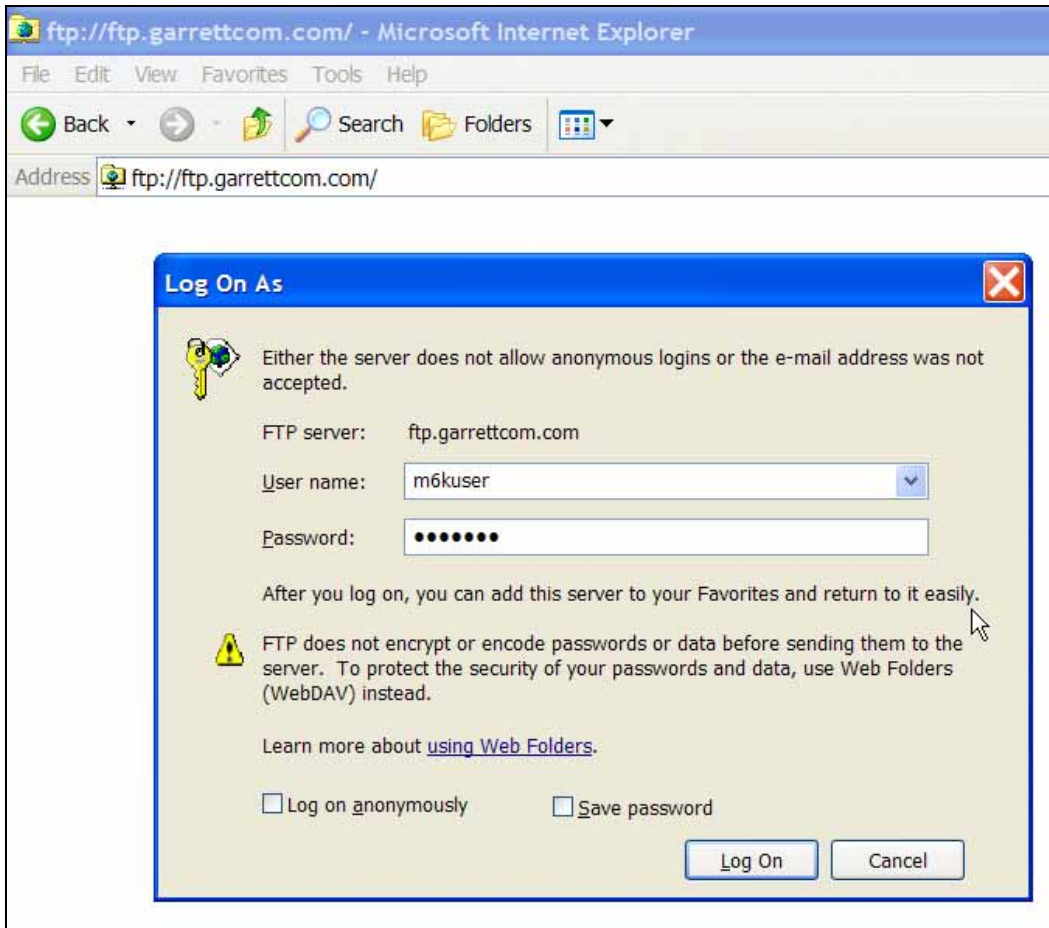


Figure 1 – Accessing the GarrettCom site for download

Note – if the browser does not support the login prompt, you can type in the user name and password on the URL as follows:

<ftp://m6kuser:m6kuser@ftp.garrettcom.com>

- 3) After successful login, select the proper folder for downloading the proper MNS-6K software, as shown in Figure 2. Select the MNS-6K software version based on the information provided in **Table 1**.

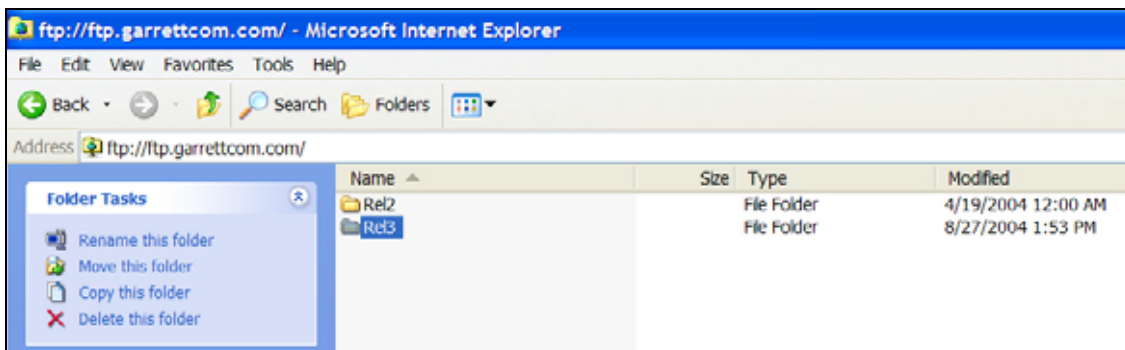


Figure 2 – Select the proper version to use after successful login

- 4) Navigate to the folder MNS-6K. See Figure 3. (There are other folders with additional software, MIBs as well as additional useful information for the Magnum-6K switches which you may want to use later.) From the MNS-6K folder download the latest 'Release Notes' as well as the file labeled Rel*x.x*.bin (where x.x would be the release number. For example for release 3.0, the file will be Rel3.0.bin). The release notes provide additional information on the latest features and functionality plus any other additional information not covered in the manuals.

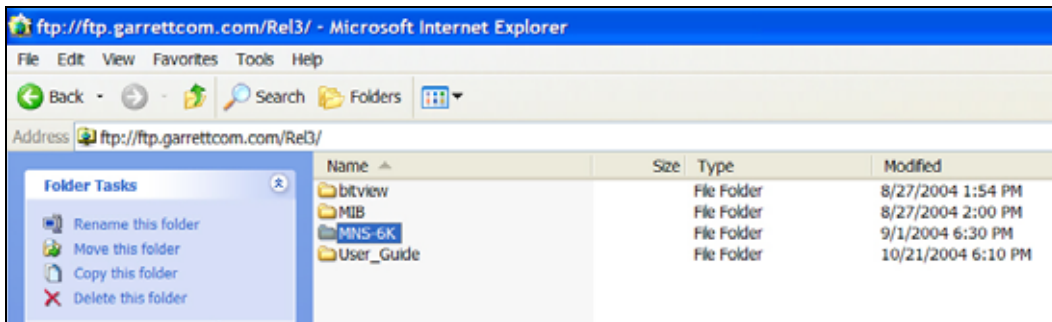


Figure 3 – Navigate to MNS-6K folder to download the latest MNS-6K software and the release notes

- 5) Copy the necessary files by using the copy command. This can be done by using the right click (or for left handed mouse – the left click) button and then selecting the copy command. See Figure 4. (Note - Linux or other operating system users – please use the appropriate copy command.)
 - a) If you are using another ftp program, use that programs copy command. Make sure to download the **Rel.x.x.bin** file in the binary mode, or the MNS-6K image may be corrupted.

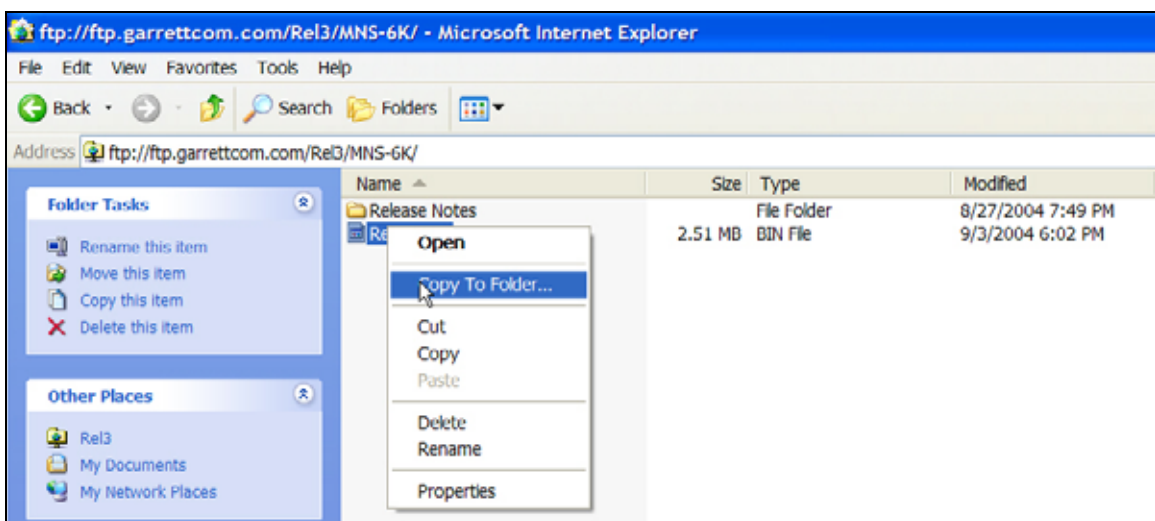


Figure 4 – Use the copy command to copy the files to the proper location

- 6) Make sure you remember where the files are stored as these files will be needed for the next step.

Next steps

- 1) Access the GarrettCom Magnum 6K switch. The access can be over the console port using the null modem cable or through the network using telnet. This is described in step 2.
- 2) Save the existing configuration (either through the serial port or through the network – depending on the access method). This is also described in step 2.
- 3) Load the updated MNS-6K software and reboot the switch. This is described in step 3.
- 4) (Optional step) Reload the saved configuration. This is described in step 4.



2. Loading the software

Backup your existing configuration.

Once the MNS-6K software is downloaded from the GarrettCom site, it is strongly recommended that the existing configuration of the switch is preserved before the MNS-6K software upgrade is performed. This section will show you how to save the existing configuration and prepare you for loading the configuration.

USING FTP – it is always a good idea to save the configuration before an upgrade. So GarrettCom recommends a two step update. First save the configuration to the ftp server. Then load the new image and restart the switch. To save the configuration using ftp follow the steps on the screen below.

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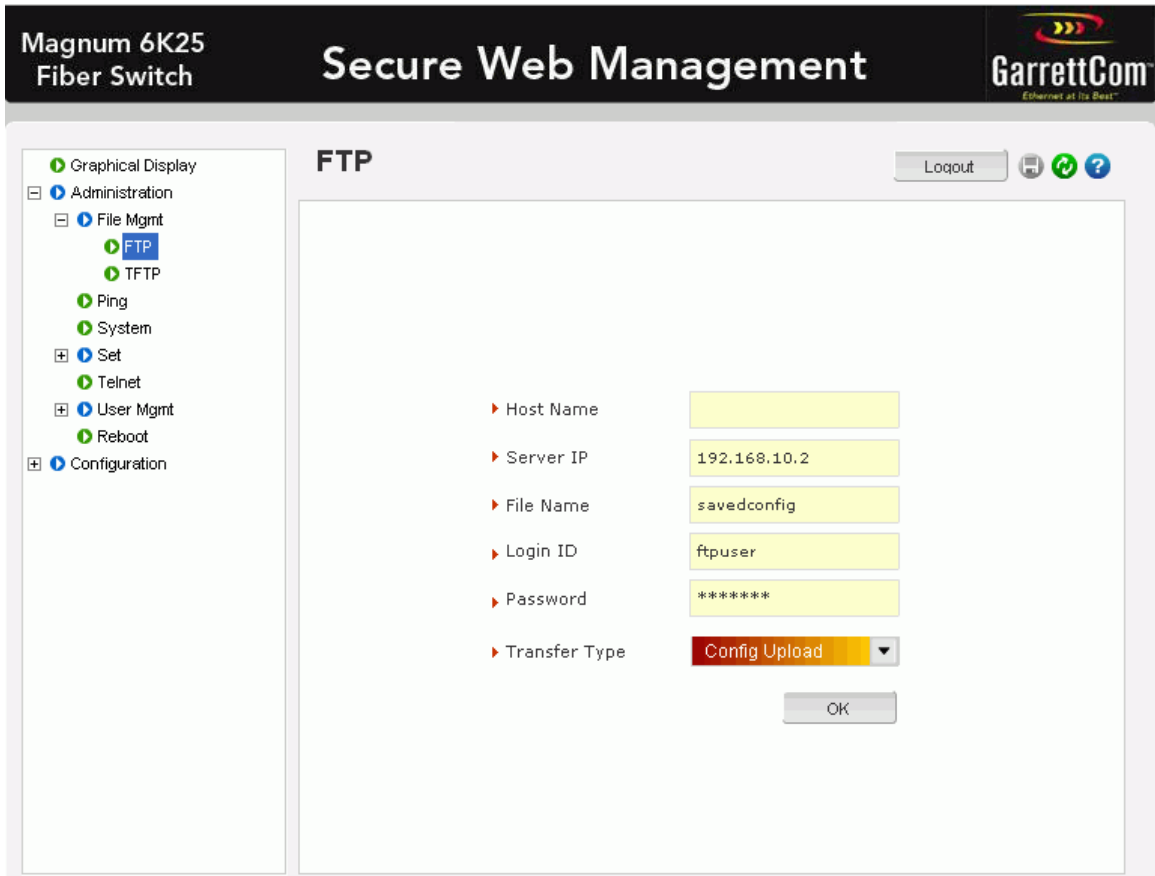


FIGURE 5 – *before the upgrade, it is a good idea to save a snap shot of the configuration*

After the configuration is saved, load the binary copied from the GarrettCom site.

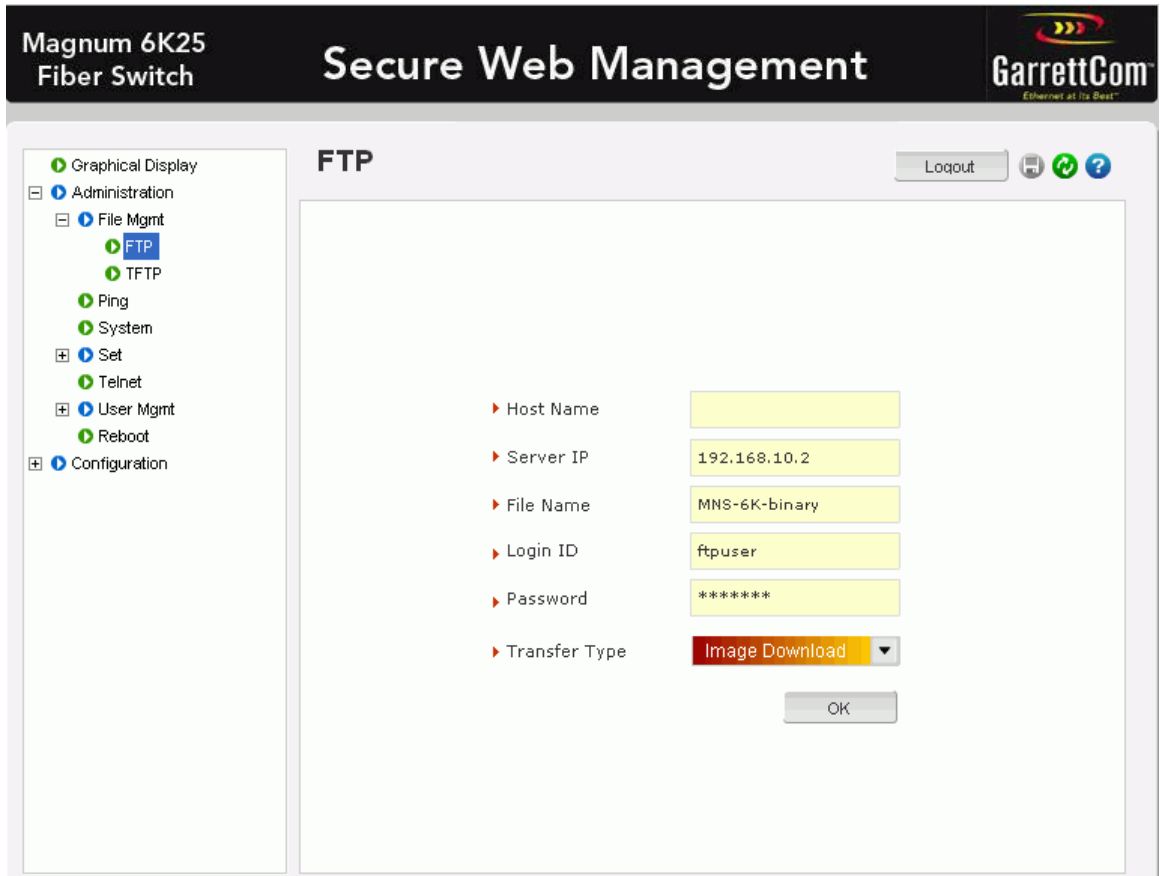


FIGURE 6 – After the configuration is saved, load the new image file copied from the GarrettCom ftp site

As the file is being loaded, you will see the file transfer in progress image show up



FIGURE 7 – As the image file is loaded, the progress will be indicated by the image above. Please wait till the file transfer is completed

Once the transfer is completed, the switch needs to be restarted.

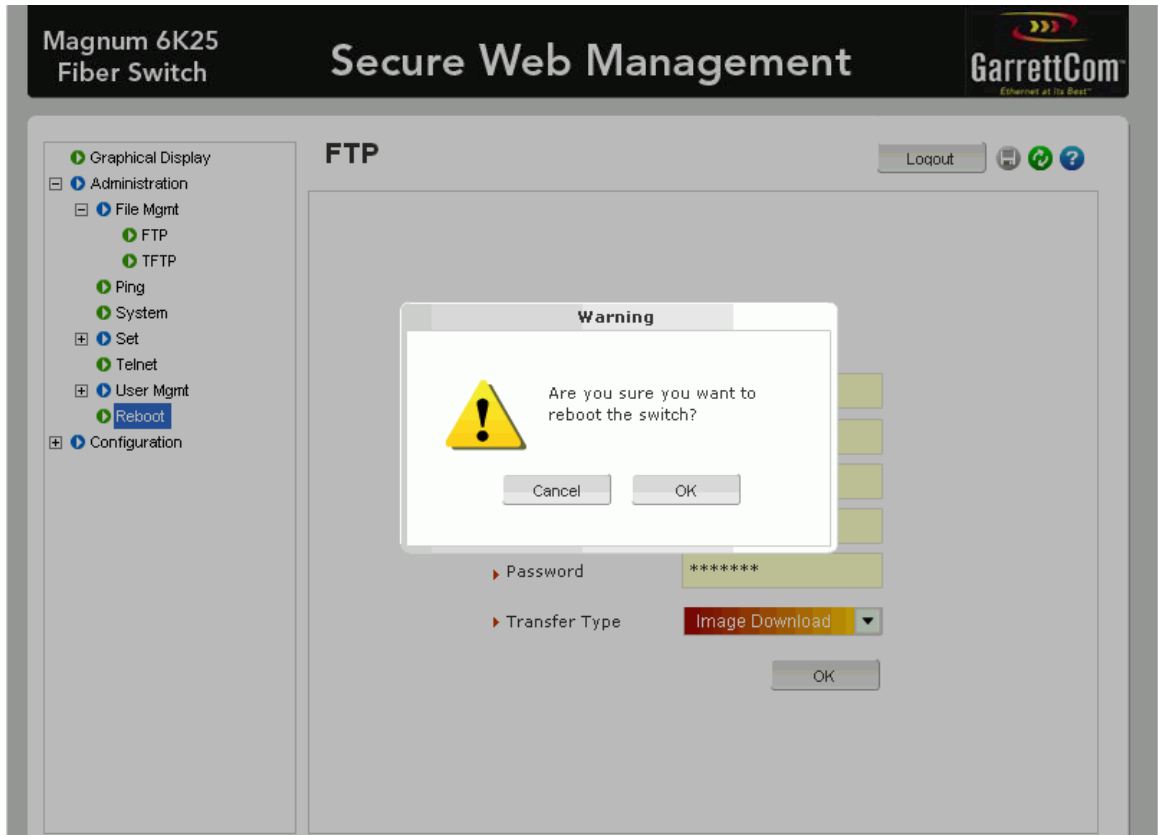
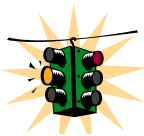


FIGURE 8 – after the new image file is loaded, it is important to save any changes made and then restart the switch as shown above

After the restart the new version of MNS-6K is ready for use.



Using the process described above, one may be tempted to update the Magnum 6K switch directly over the Internet from the GarrettCom site. **GarrettCom DOES NOT RECOMMEND DOING THAT.**

GarrettCom recommends that the binary be loaded and copied to a server locally, then upload the binaries over the LAN or the local Intranet to the Magnum 6K family of switches in your network

USING TFTP - it is always a good idea to save the configuration before an upgrade. So GarrettCom recommends a two step update. First save the configuration to the TFTP server. Then load the new image and restart the switch.

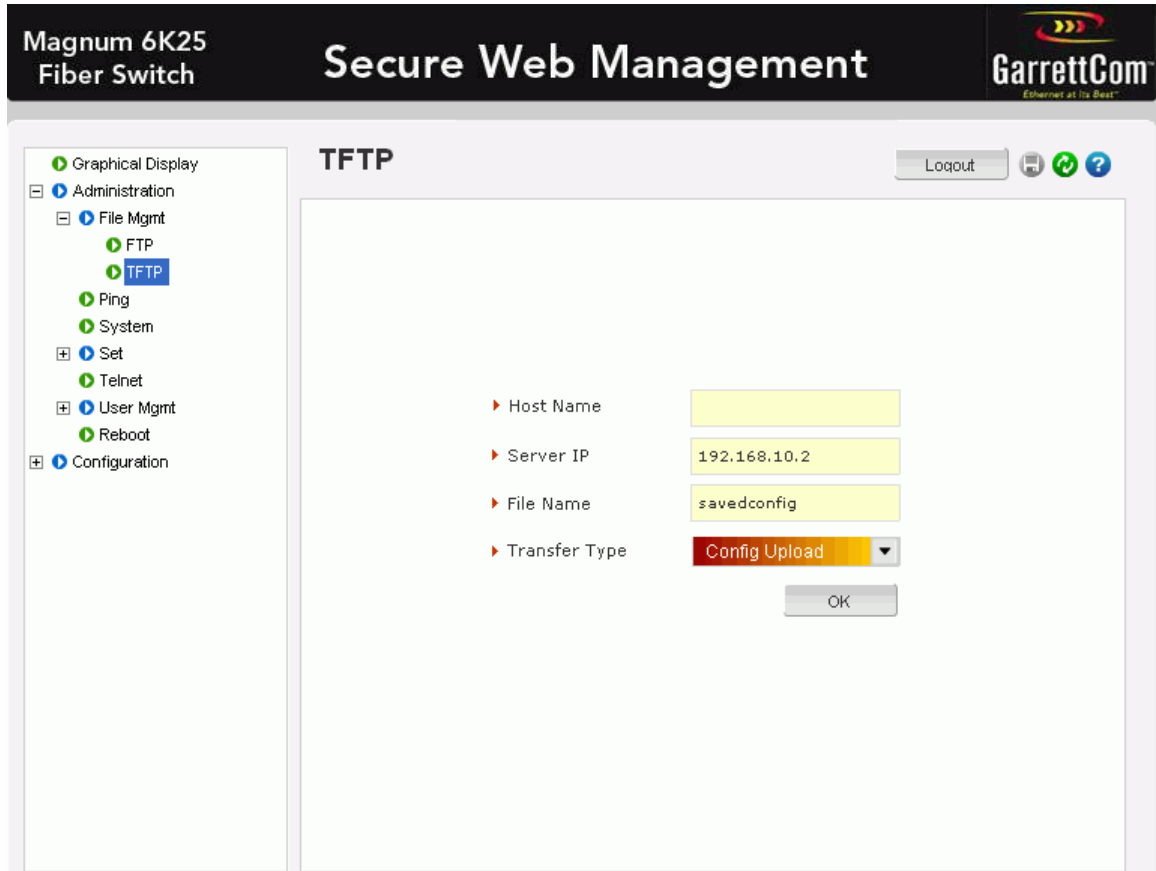


FIGURE 9 – before the upgrade, it is a good idea to save a snap shot of the configuration

After the configuration is saved, load the binary copied from the GarrettCom site.

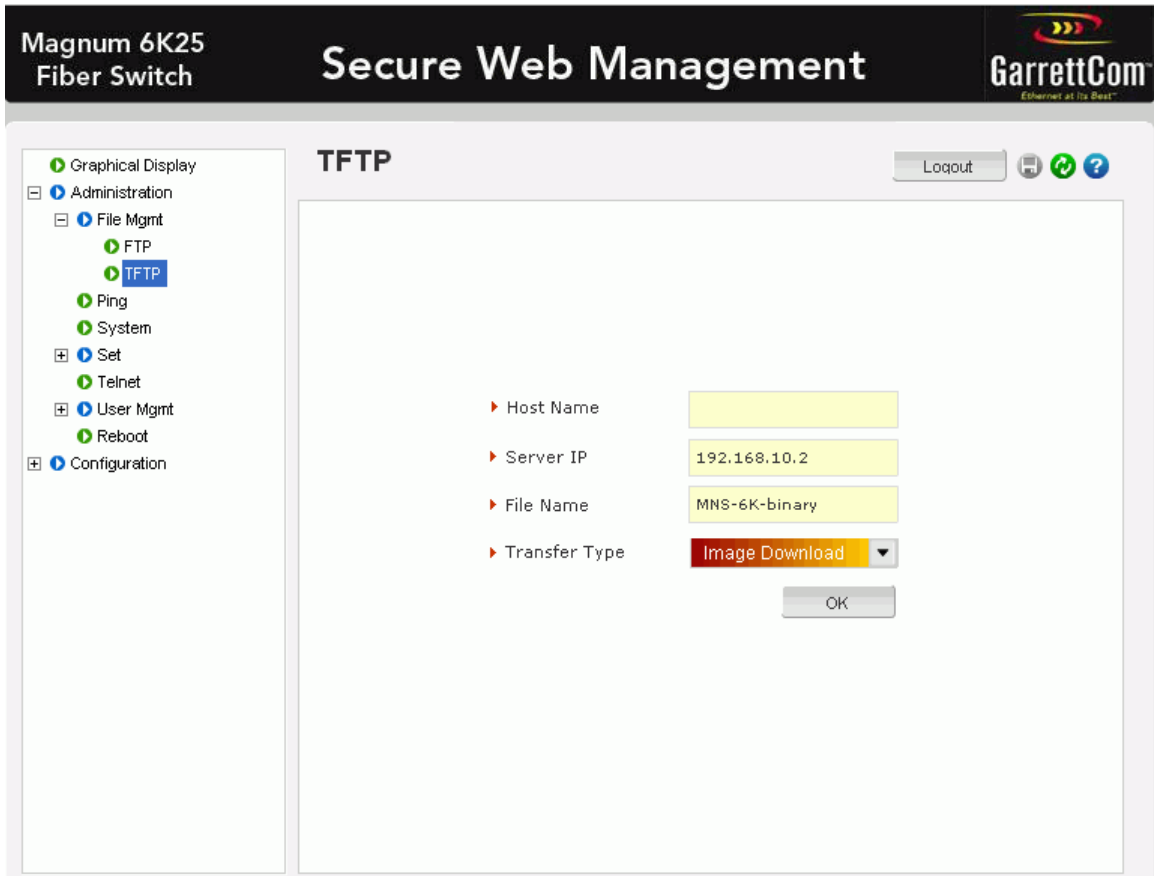


FIGURE 10 – After the configuration is saved, load the new image file copied from the GarrettCom ftp site

As the file is being loaded, you will see the file transfer in progress image show up



FIGURE 11 – As the image file is loaded, the progress will be indicated by the image above. Please wait till the file transfer is completed

Once the transfer is completed, the switch needs to be restarted.

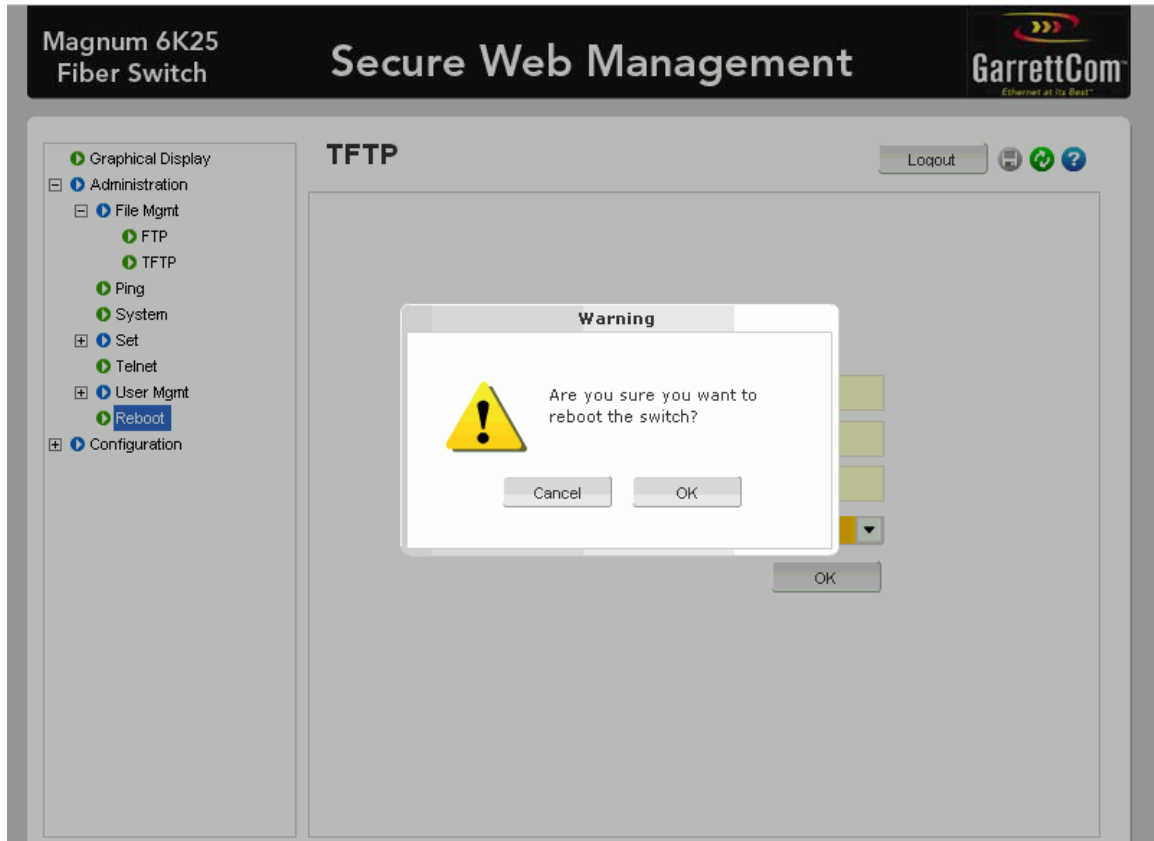


FIGURE 12 – after the new image file is loaded, it is important to save any changes made and then restart the switch as shown above

After the restart the new version of MNS-6K is ready for use.

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