Customer Release Notes

Product

Firmware Version summitX-21.1.1.4-http-2.0.0.1.xmod
June 2016

INTRODUCTION:

This document provides specific information for version `summitX-21.1.1.4-http-2.0.0.1.xmod`

summitX-21.1.1.4-http-2.0.0.1.xmod requires the EXOS switch to be running EXOS 21.1.1.4 or a patched version of 21.1.1.4.

The xmod introduces the following new features.

- Web based CLI Terminal

Web CLI terminal

The Web CLI terminal enables access to the EXOS CLI via a web browser, Muliple tabs/windows can be open to a single EXOS switch or to a number of different EXOS switches providing a convenient means of organizing multiple terminal windows.

The enhancements are packaged into an EXOS .xmod file which may be downloaded to a switching using the `download image` or `download url` commands.

APPLICATION SPECIFICATION: WEB CLI TERMINAL

Status	Version No.	Type	Release Date
Current Version	2.0.0.1	Release version to work with EXOS version 21.1.1.4	June 2016

EXOS COMPATIBILITY

This http xmod is compatible with Extreme EXOS version 21.1.1.4 or a patched version of 21.1.1.4.

BROWSER SUPPORT FOR WEB CLI TERMINAL

Browser	Version No.
Microsoft Internet Explorer	11
Microsoft Edge	25
Mozilla Firefox	47
Google Chrome	51
Safari	9.1

SUPPORTED FUNCTIONALITY:

Product Features
Web Based CLI Terminal

INSTALLATION AND CONFIGURATION NOTES:

Note:

This application must be loaded onto a switch that is running EXOS 21.1.1.4 or a patched version of 21.1.1.4. Once the xmod has been downloaded and installed, the thttpd process **must** be restarted for the new functionality to work. Use the cli command "restart process thttpd".

INSTALLATION

1) Make sure the switch has booted Exos 21.1.1.4 or a patched version of 21.1.1.4. This can be verified from the output of "show switch"

```
Image Booted:      secondary
Secondary ver:     21.1.1.4
```

2) Download and install the http xmod. This can either be done using the "download url", "download image" cli commands, or through chalet's file manager.

- **Download URL:**

```
X450G2-24p-10G4.6 # download url http://<IP>/<PATH_TO_XMOD> vr <VR>

Do you want to install image after downloading? (y - yes, n - no, <cr> - cancel)
Yes
Downloading to Switch......
Installing to secondary partition!
Installing to Switch.................
Image installed successfully
```

- **Download Image:**

```
X450G2-24p-10G4.9 # download image <TFTP_IP>  <PATH_TO_XMOD> vr <VR>

Do you want to install image after downloading? (y - yes, n - no, <cr> - cancel)
Yes
Downloading to Switch.....
Installing to primary partition!
Installing to Switch................
Image installed successfully
```
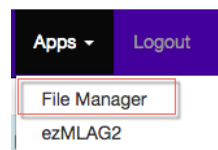
```
X450G2-24p-10G4.10 # restart process thttpd
```

- **Chalet**

a) Access chalet and navigate to the File Manager.

b) "Choose file" and select summitX-21.1.1.4-http-2.0.0.1.xmod from your local machine.
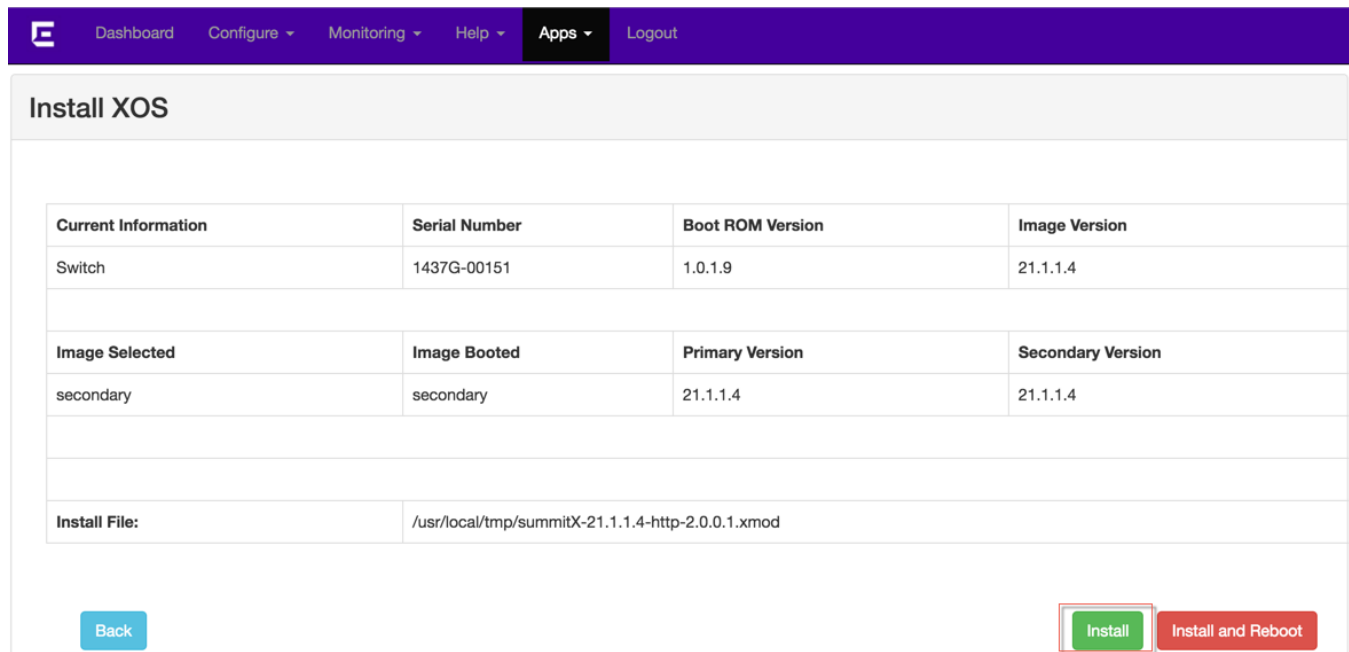
c) "Upload" to transfer the xmod to the switch.

d) Once the xmod has been uploaded to the switch – click on "Install".

e) "Install" the xmod – there is no need for a reboot. The xmod will install to the booted partition. When completed chalet will respond with a "Command Succesful".
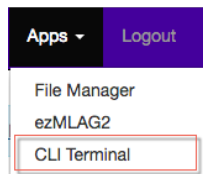

3) Restart the thttpd process.

```
X450G2-24p-10G4.18 # restart process "thttpd"
Step 1: terminating process thttpd gracefully ...
Step 2: starting process thttpd ...
Restarted process thttpd successfully
X450G2-24p-10G4.19 #
```

WEB CLI TERMINAL USAGE - CHALET

Once the installation of the xmod has been completed and the thttpd process restarted, the web based cli terminal can be accessed through chalet.

1) Start by logging into chalet.

2) A new menu option "CLI Terminal" will be present under "Apps".
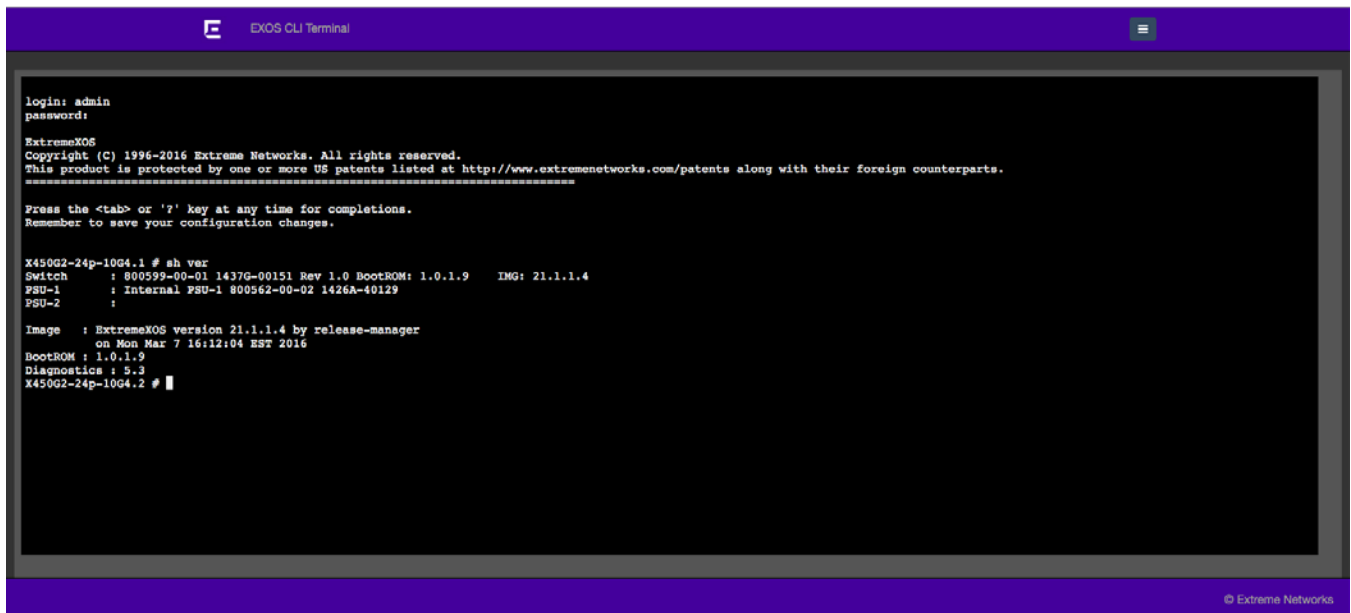

Note:

If the menu option is not present, please make sure the thttpd process was restarted. If it is still not present, force a refresh of the browsers cache or clear its history pertaining to the switch.
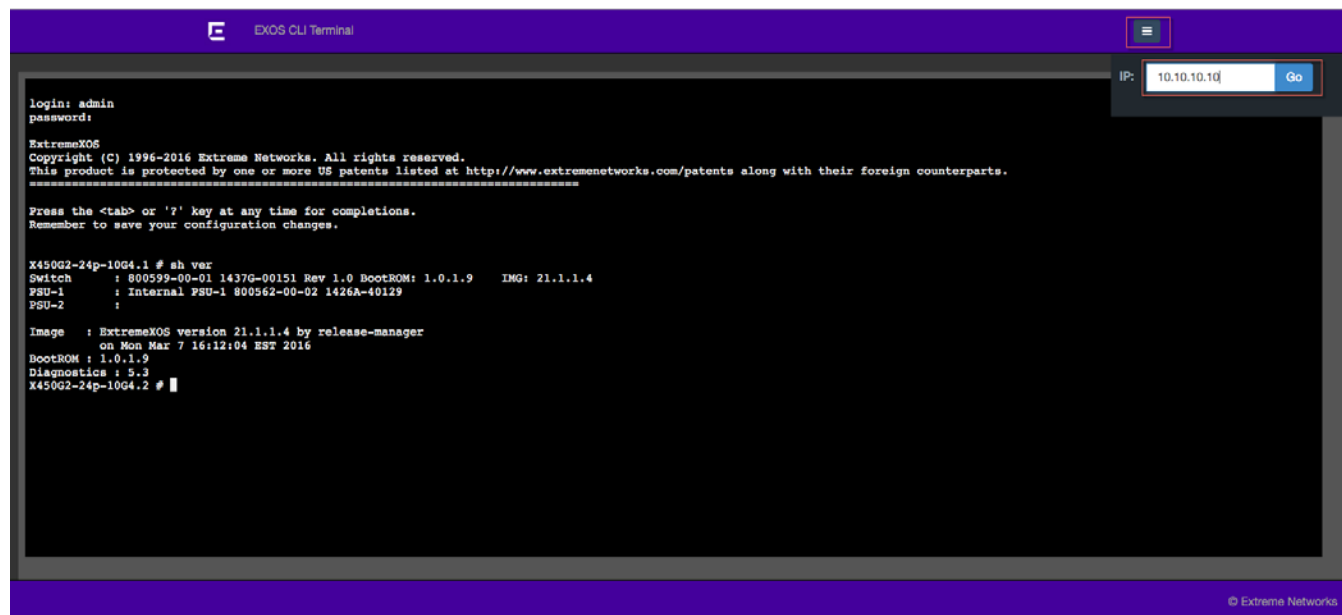
3) Clicking on "CLI Terminal" will open a new tab in the browser that will spawn the web based cli terminal.

4) Login with a valid user account on the switch.

5) There is a menu item that will take an ipaddress of another switch that has the web based cli terminal feature. Clicking on "Go" will open a new tab to the ipaddress.

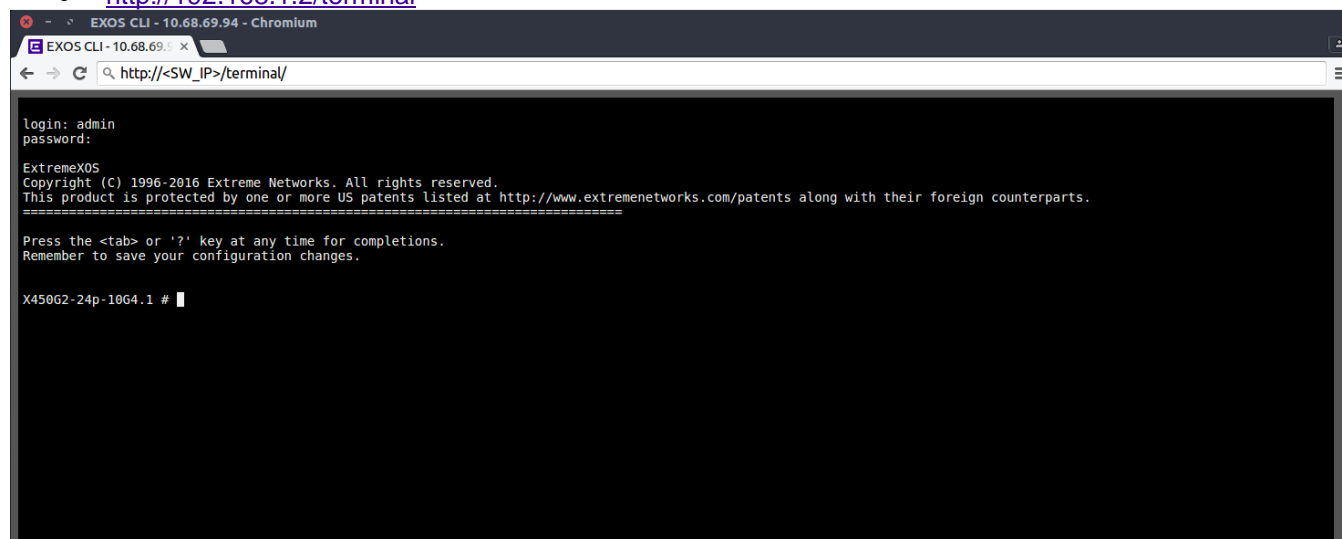## WEB TERMINAL USAGE - DIRECT

The web terminal can also be accessed directly, without the need to go through chalet. To access the web terminal directly input the url http(s)://<SW_IP>/terminal

E.g. Let's use 10.10.10.1 as the swtich IP address. If we are using https:
- https://10.10.10.1/terminal
  or we can use http and in this example the switch IP address is 192.168.1.2
- http://192.168.1.2/terminal

WEB TERMINAL HTTPS

The web terminal supports https.

> **Note:**
>
> If chalet is used to access the web cli terminal, it will open it based on the protocol first used with chalet.

1) The following will create a self signed certificate, enable https and disable http.

```
X450G2-24p-10G4.13 # configure ssl certificate privkeylen 1024 country US
organization ExtremeNetworks common-name X450G2-24p-10G4
.............................++++++
...................++++++
* X450G2-24p-10G4.14 #
* X450G2-24p-10G4.14 # disable web http
* X450G2-24p-10G4.15 # enable web https
* X450G2-24p-10G4.18 # show management

Web access                       : Disabled (tcp port 80)
                                 : Access Profile : not set
* X450G2-24p-10G4.20 # show ssl

HTTPS Port Number: 443 (Enabled)
```
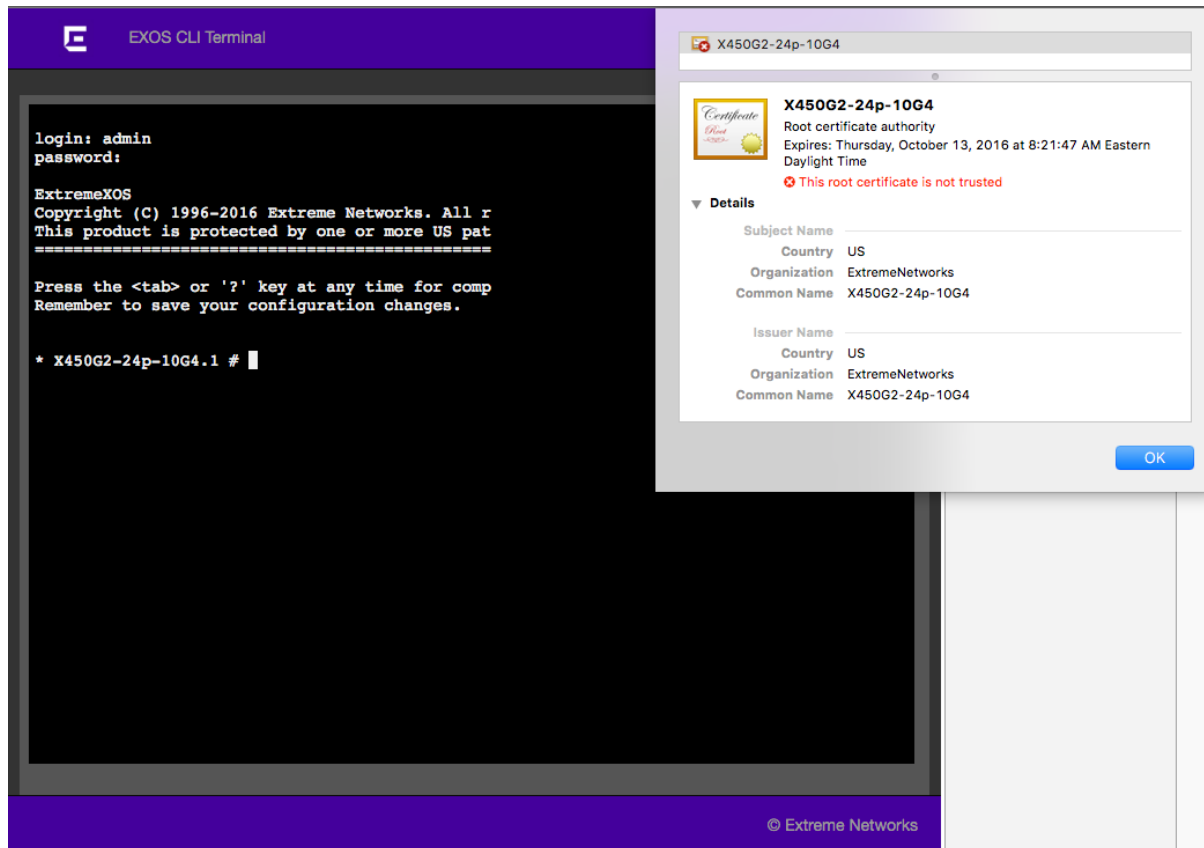
2) The web terminal can now be access through chalet or directly using https.

FIRMWARE CHANGES AND ENHANCEMENTS:

| Changes and Enhancements in |
| --- |
| New Web based CLI Terminal |

KNOWN RESTRICTIONS AND LIMITATIONS:

Known Issues in 2.0.0.1
The web based cli sessions will not work with "clear session x". Workaround is to close the browser window which will close out the session.
The web based cli sessions are currently shown as "console" in the "show session" output.

Restrictions
A maximum limit of 4 web cli terminals can be open per switch. The browser will show the following message if a 5th terminal is opened.
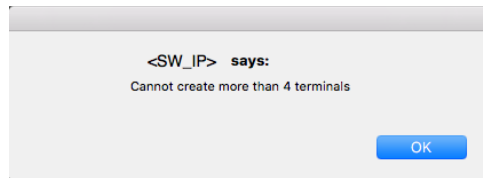
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For information regarding the latest software available, recent release note revisions, or if you require additional assistance, please visit the Extreme Networks Support web site.