



FLIX OS Upgrade Guide

FlixOS- 2015.1.0.66, July 2015



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<i>Change: 4150211, Date: September 24, 2013</i>		

For viewing the FAQs related to the product, go to Ixia Technical Support Online:

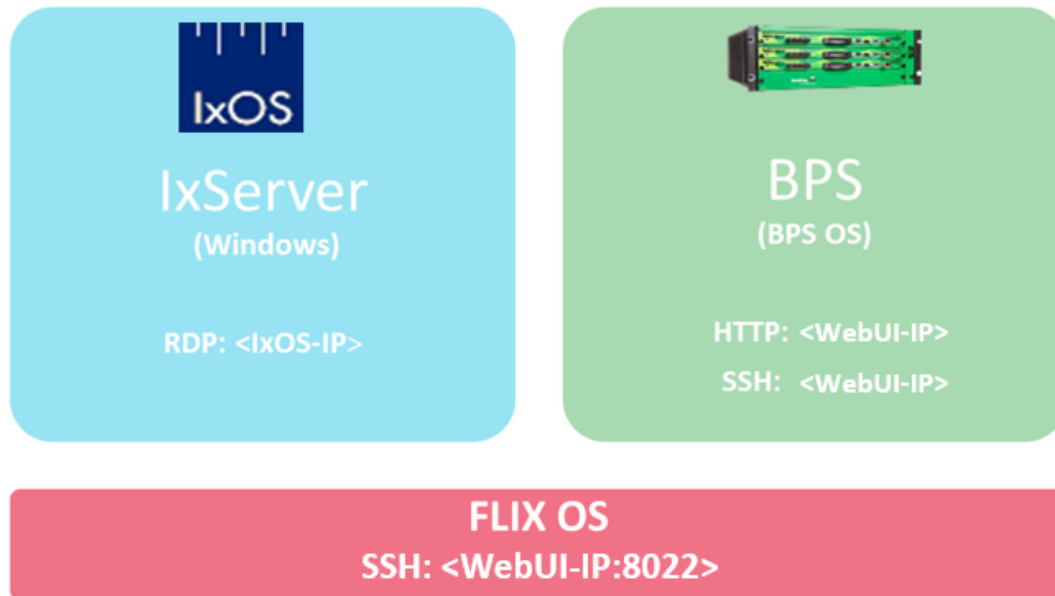
https://ebsoprod.ixiacom.com/OA_HTML/jtflogin.jsp

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Overview

FLIX OS is the foundation operating system required on the XGS12-HS Chassis and PerfectStorm ONE appliances. FLIX OS is the management Linux OS, hosting two virtual machines – IxOS and BPS OS.



The update to FLIX OS will be performed on site where the chassis is located using a USB flash drive. Overall duration of the update process is less than 10 minutes.

This document details the instructions for updating the FLIX OS from version 1.2.0.23+ to 2015.1.0.x.

Enhancements in 2015.1.0.X

- **XAIR support**
- Introducing new FTP upgrade method for future updates
- Several functionality bug fixes

Prerequisites

- Make sure that your current FLIX OS version is at least 1.2.0.23 (for older versions please consult the support team).
- USB flash drive formatted with a FAT32 file system (128GB or less).
- Accessibility to the chassis:
 - XGS12-HS: Monitor+ USB Keyboard or KVM and physical access to the chassis
 - PerfectStorm ONE : serial cable connected to RS232

- use UTF-8 character set with VT100 terminal
 - set speed to 115200, data bits: 8:, stop bits: 1, parity: None, set Flow Control: None
- Access to the Ixia Downloads website in order to download the FLIX OS file (the specific URL is provided in the next section of this document).

Updating to Version 2015.1.0.x

1. Connect to the chassis and verify that it is eligible for the update

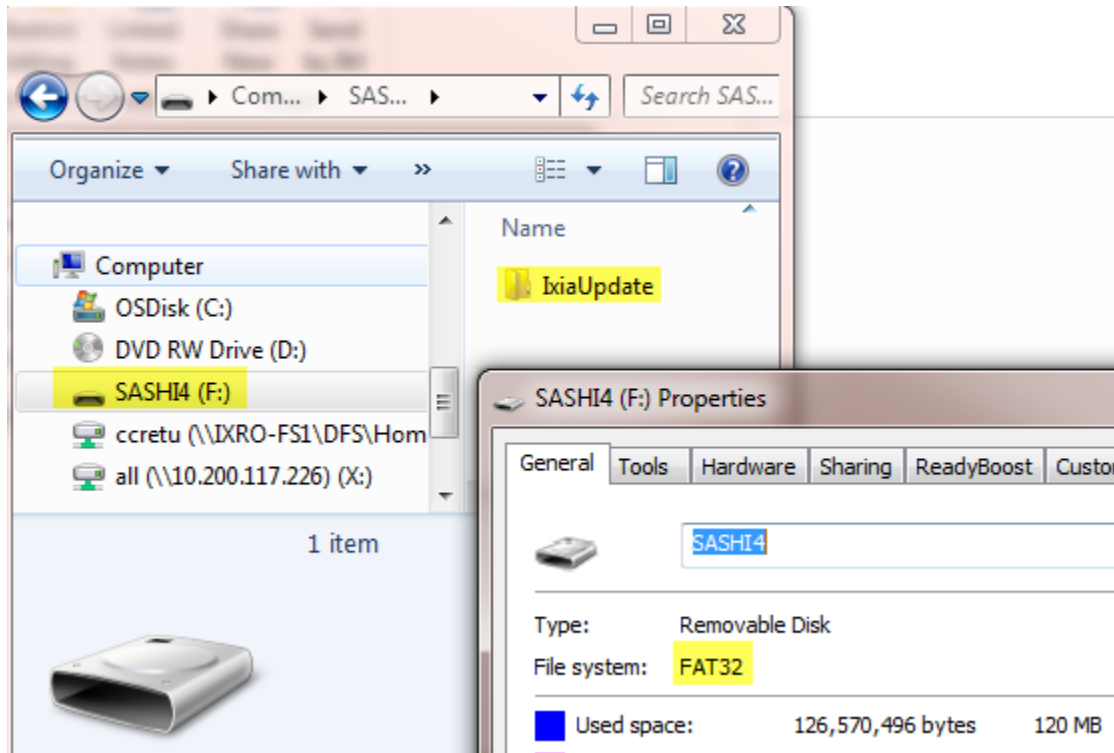
- a. SSH to the XGS12-HS chassis or the PerfectStorm ONE using your WebUI IP address on port 8022.
- b. Log in as **user admin / password admin** to access the administration menu.
- c. Verify the Ixia FLIX OS version is 1.2.0.23 or higher.

2. Download the update zip package

- a. Download the FLIX OS zip file with the version 2015.1.0.x from the following location: <http://www.ixiacom.com/support-overview/product-support/downloads-updates/versions/21>.

3. Format the USB flash drive using the FAT 32 file system and unzip the package on it

- a. Use a generic USB flash drive and make sure you format it with a FAT32 file system.
- b. Unzip the contents of the zip archive mentioned above (2.a) on the USB flash drive.
- c. You should see a directory structure similar to "F(USB):/IxiaUpdate" after extraction (see image below).



4. Use remote desktop to shutdown Windows gracefully

Use remote desktop to connect to the WebUI IP. It will display the IxOS VM windows screen. Choose the shutdown option and wait for Windows to completely shut down.

5. Connect to the chassis directly depending on the chassis type :

- a. XGS12-HS: Monitor+ USB Keyboard or KVM and physical access to the chassis
- b. PerfectStorm ONE : serial cable connected to RS232
 - i. use UTF-8 character set with VT100 terminal
 - ii. set speed to 115200, data bits: 8:, stop bits: 1, parity: None, set Flow Control: None

6. Connect the USB flash drive to the chassis

- a. Connect the USB flash drive to the chassis.
- b. When the USB flash drive is connected, a message should appear on the screen similar to the following: "sd 5:0:0:0: [sdb] Assuming drive cache: write through".

Note 1: Ixia validated this functionality with multiple brands of USB flash drives that store less than 128 GB of data.

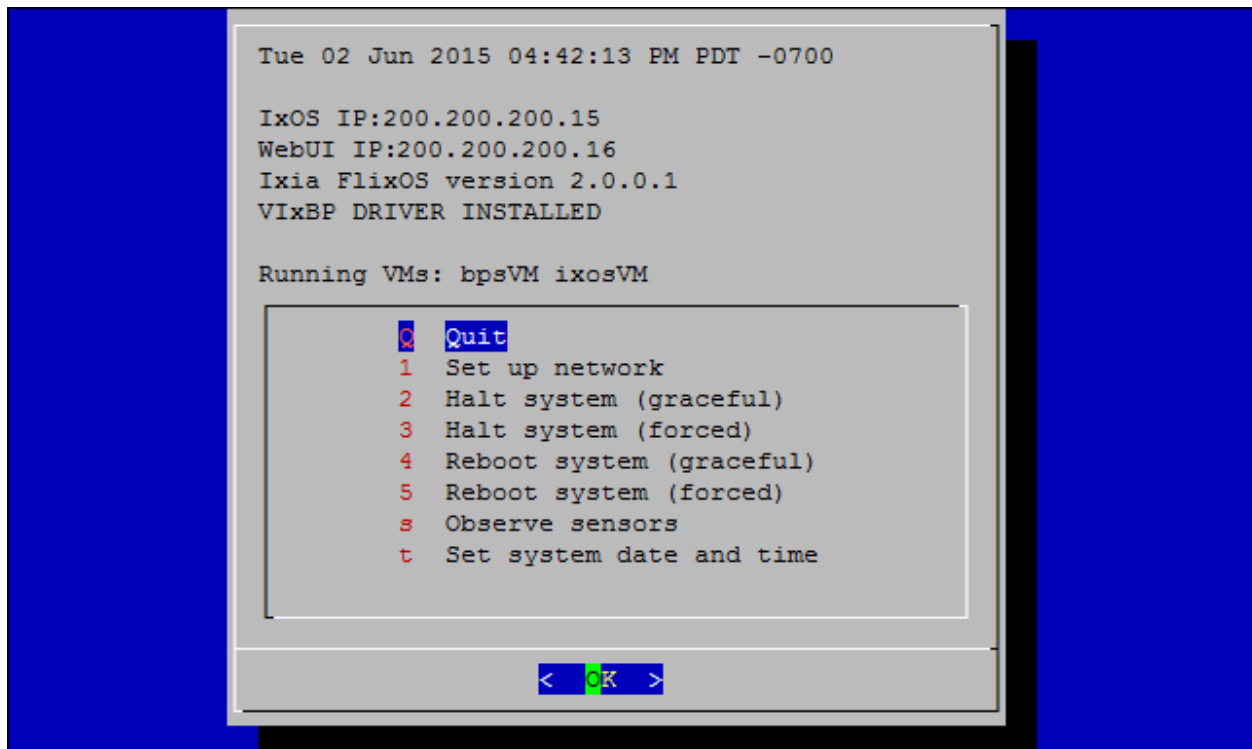
Note 2: If the message mentioned above at step b is not displayed, the USB flash drive may not be recognized or inserted properly. Try pulling the flash drive out and inserting it again. Try using a different USB flash drive if necessary.

7. Reboot the chassis from the admin screen

- a. Access the chassis directly by using the VGA monitor and keyboard for XGS12-HS chassis or serial interface for PerfectStorm One (as described in step 5).

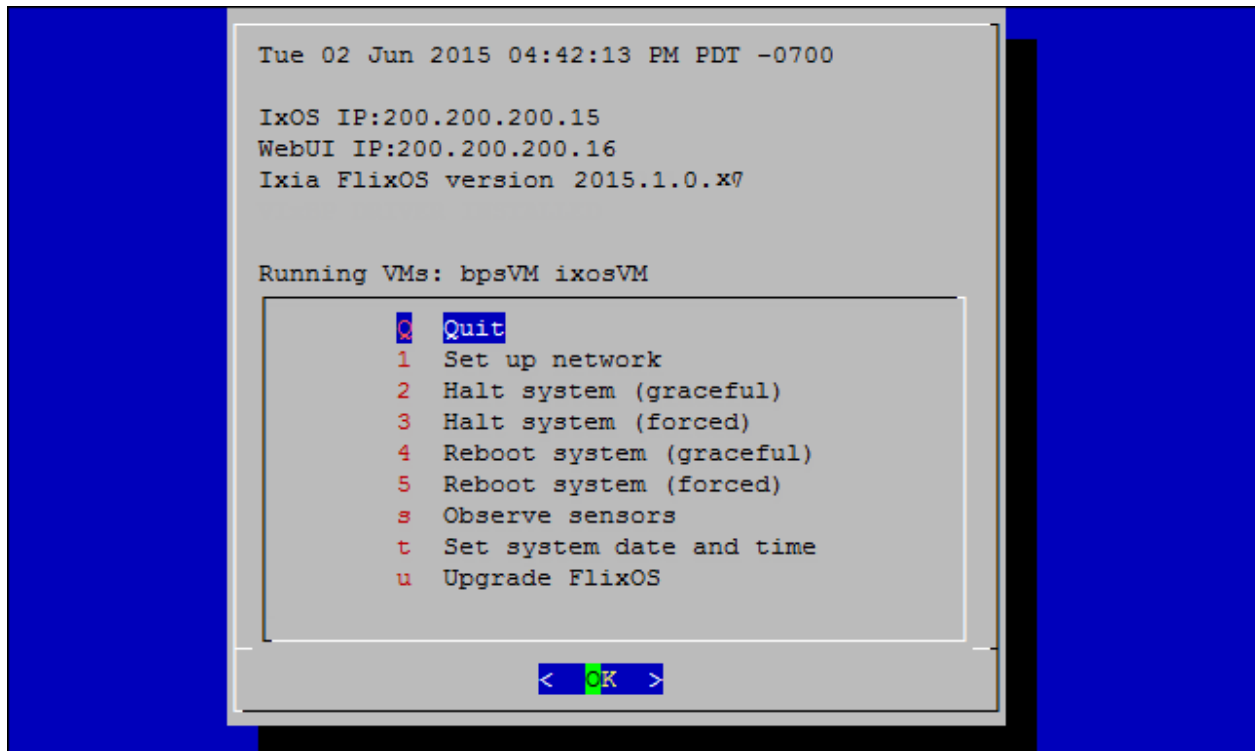
Login by typing **username admin / password admin**.

- b. The admin menu will look similar to the image shown below. Please select Option 5 (forceful reboot), and wait for the chassis to restart.



8. Wait for the update to finish and then validate it

- a. During the boot phase, you will see output showing several components being updated. This process takes less than 10 minutes and ends when the login prompt appears.
- b. Log in again using **username admin / password admin** to access the admin menu.
 - Verify all VMs are running as shown in the image below.
 - Verify that the Ixia FLIX OS version was updated properly as shown in the image below.



Final Notes

This procedure applies only to FLIX OS Version 1.2.0.23 or later.

Some USB Flash drives cannot be mounted or may even block the boot process. If you reach step 7 of the procedure described above and the system was not updated, try reinserting the USB flash drive in another USB port and redo steps 5 and 6. If there is no change, try using a different brand of USB flash drive.

- Make sure that the USB flash drive is formatted with a FAT32 file system.

If you have difficulties performing the update, please contact Technical Support performing the update: <http://www.ixiacom.com/support/>