



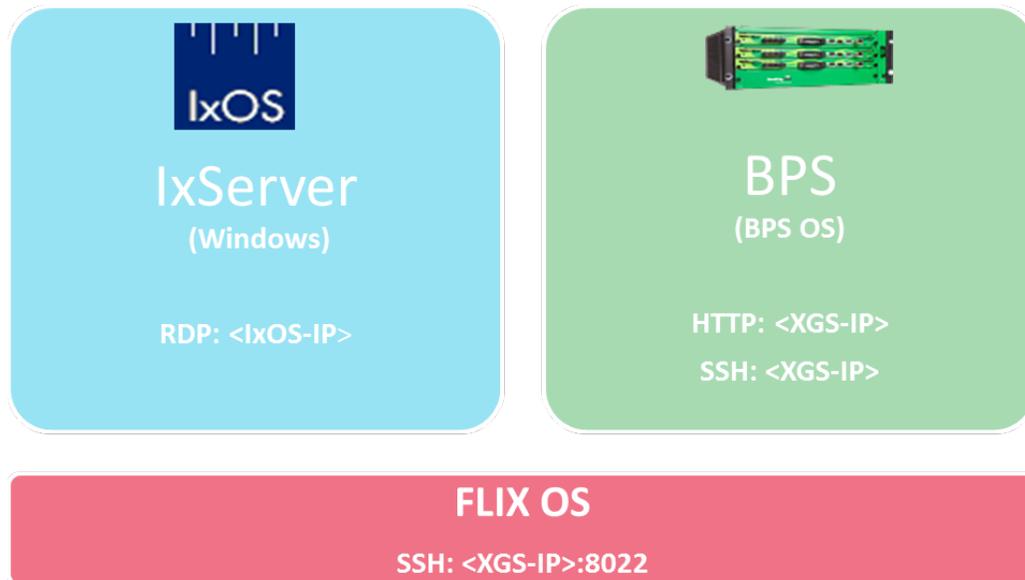
FLIX OS Upgrade Guide

Table of Contents

I.	Summary	2
II.	Prerequisites	2
III.	Updating from version 1.2.0.17+ to 1.2.0.23	3
	1. Update Contents	
	2. Connect to the XGS chassis and verify the current FlixOS version	
	3. Download the update zip package:	
	4. Format the USB memory stick using the FAT 32 file system and unzip the package on it	
	5. Connect keyboard and monitor to the chassis	
	6. Connect the USB stick to the chassis	
	7. Reboot the chassis from the admin screen (1st Reboot w/ USB)	
	8. Wait for the 1st boot to finish and login message to appear	
	9. Reboot from admin screen (2nd Reboot w/ USB)	
	10. Wait for update to complete and for the login message to be displayed again	
	11. Reboot from admin screen (3rd Reboot w/ USB - optional)	
	12. Validate the update	
IV.	Updating from version 1.2.0.23 to 2.0.0.1	9
	1. Update Contents	
	2. Connect to the XGS chassis and verify that it is eligible for the update	
	3. Download the update zip package:	
	4. Format the USB memory stick using the FAT 32 file system and unzip the package on it	
	4. Connect the USB stick to the chassis	
	5. Reboot the chassis from the admin screen	
	6. Validate the update	

Summary

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 USB memory stick. Overall duration of the update process is less than 10 minutes.

This document details the instructions for updating the FLIX OS from version 1.2.0.17 to 1.2.0.23 and from version 1.2.0.23 to 1.2.0.1, respectively. If the chassis is on 1.2.0.17 you need to follow the update process in two stages.

Prerequisites

- *Make sure FLIX OS version is at least 1.2.0.17 (see step 1)*
- **NonBootable** USB stick formatted FAT32
- *Monitor/Keyboard or KVM and physical access to the chassis*
- *Download the FLIX OS file from the Ixia Downloads website - <https://www.ixiacom.com/support-overview/product-support/downloads-updates>*

Updating from version 1.2.0.17+ to 1.2.0.23

Enhancements in 1.2.0.23

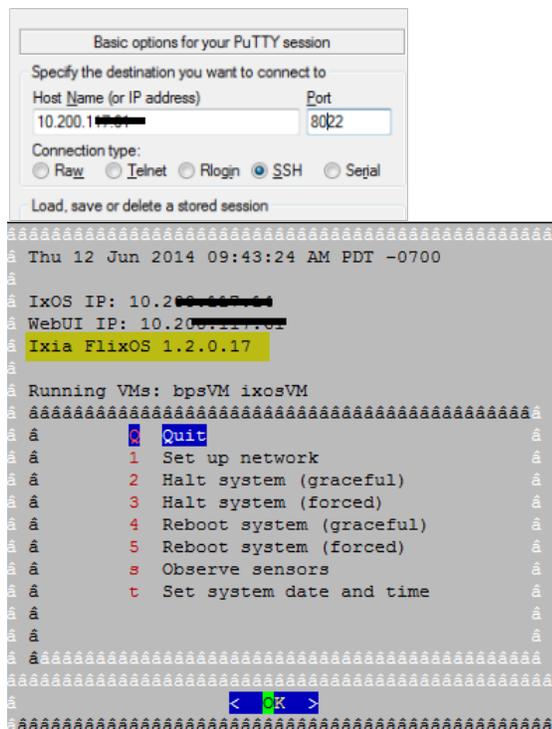
- Increased number of cores for IxOS VM (from 2 to 4 cores)
- Decreased the interruptions on the backplane
- Decreased the reserved memory allocated to IxAppsVM
- Enabled high speed backplane
- Architecture consolidation to support PerfectStorm ONE and XGS12-HS Chassis

1. Connect to the XGS chassis and verify the current FlixOS version

In order to connect to the XGS12-HS chassis you must SSH using the port 8022 to the WebUI IP address.

When prompted for credentials, use **admin** for the user and password in order to log in.

Verify the Ixia FLIX OS version is greater than 1.2.0.17. Please see the highlighted section in the screen shot below.



2. Download the update zip package:

Connect to any of the following URLs using your Ixia credentials to get the zip FLIX update package.

Download the zip file: `ixia-flix-usbupdate-1.2.0.23.zip`:

<http://www.ixiacom.com/support-overview/product-support/downloads-updates/versions/33>
<https://strikecenter.ixiacom.com/bps/osupdates>

3. Format the USB memory stick using the FAT 32 file system and unzip the package on it

Unzip the contents on the directly on the stick. (on the root location)

After unzipping the contents of the archive to the USB stick, for example G:\, you should see the following:

```
G:\IxiaUpdate\  
G:\ixia-flix-rpmupdater-18-7.x86_64.rpm  
G:\10-ixia-flix-users-64-1.x86_64.rpm  
G:\20-ixia-flix-tenspeed-14-1.x86_64.rpm
```

4. Connect keyboard and monitor to the chassis

Connect KVM or keyboard and desktop to the XGS12-HS chassis or PerfectStorm ONE appliance

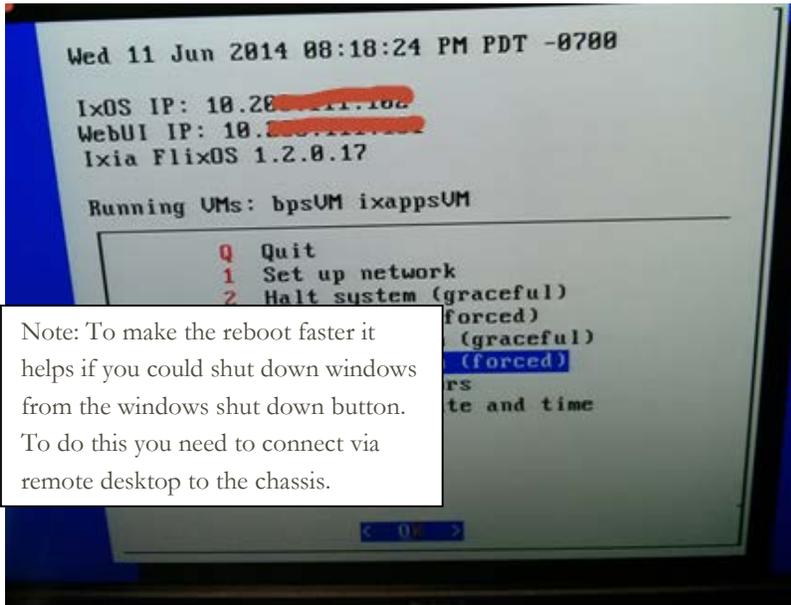
Use CTRL+ ALT +F2 to display the login prompt if it is not already displayed.

5. Connect the USB stick to the chassis

After login prompt is displayed connect the USB stick. You may be getting some messages similar to the ones in the picture after connecting the USB stick.



6. Reboot the chassis from the admin screen (First Reboot w/ USB)



Login by typing username **admin** and password **admin**

You should see the admin menu as in the picture. Reboot using Option 5 and wait for the chassis to restart.

7. Wait for the First boot to finish and login message to appear

After the first reboot with the USB stick connected is completed you will see the login prompts and FLIX OS version unchanged.

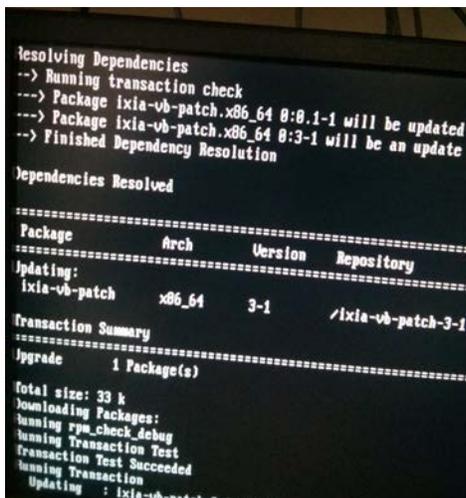
8. Reboot from admin screen (Second Reboot w/ USB)

Reboot the chassis again and leave the USB stick connected. Do this from by login with user **admin**, password **admin** and by using the option #5 from the menu.

During the boot process updates will be performed.

Please see the screenshot below for a sample output visible on the screen.

Note: To make the reboot faster it helps if you could shut down windows from the windows shut down button. To do this you need to connect via remote desktop to the chassis.



9. Wait for update to complete and for the login message to be displayed again

```
ixOS IP:
WebUI IP: 10.200.225.27
Ixia FlixOS version 1.2.0.23
liveoak-10001 login:
```

If there are any unexpected failures messages, please report them to the Technical Support team, details at the end of this document.

The update finishes when the login screen is displayed again. This time with the new updated FLIX OS version.

10. Reboot from admin screen (Third Reboot w/ USB - optional)

Login with the user **admin**, password **admin**.

In case, you observe any of the following condition, reboot one more time using Option #5

- In the "Running VMs" line any of the: ixosVM or bpsVM are missing.
- The Ixia FLIX OS version did not update to the new version.

11. Validate the update

```
Thu 12 Jun 2014 07:36:06 PM PDT -0700

IxOS IP: 169.254.191.147
WebUI IP: 10.200.225.27
Ixia FlixOS version 1.2.0.23

Running VMs: bpsVM ixappsVM ixosVM

Quit
1 Set up network
2 Halt system (graceful)
3 Halt system (forced)
4 Reboot system (graceful)
5 Reboot system (forced)
s Observe sensors
t Set system date and time

< OK >
```

Login either directly or via SSH on the port 8022 using username **admin** password **admin** to get to the admin menu.

- Verify all VMs are running as on the picture below highlighted with yellow.
- Ixia FlixOS version was update properly as in the picture highlighted with red.
- Start IxServer make sure it starts properly without any unexpected errors.
- Connect to BPS VM. Make sure you are able to connect.

Updating from version 1.2.0.23 to 2.0.0.1

Enhancements on 2.0.0.1

- Greatly improved hardware access performance.
- With BPS 3.3.1 or later, supports ability to change IxRemotelp network from IxExplorer from 10.0/16 to x.y/16.
- Networks 10.1.1/24 and 10.1.2/24 must still be avoided.
- Improvements to local and remote ixia account login.
- Security improvements
- Admin account improvements:
- Fixes for setting times/dates starting with '8', '9'.
- NTP will no longer hang if the NTP server cannot be contacted/resolved
- Network reconfiguration now re-asserts disable of wake-on-LAN
- Allow the user to manually set the FlixOS time zone

Note: If you are upgrading from 1.2.0.17 to 2.0.0.1 it is recommended to first upgrade to 1.2.0.23 using the steps found in the section above. After the first upgrade to 1.2.0.23 is successful, please follow the steps described in this section in order to upgrade to version 2.0.0.1.

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

SSH to the XGS12-HS chassis or the PerfectStorm ONE using port 8022 using your WebUI IP address.

Login with user **admin** password **admin** to bring up the administration menu.

Verify the Ixia FLIX OS version is 1.2.0.23 or higher.

2. Download the update zip package

Connect to any of the following URLs using your Ixia credentials to get the zip FLIX update package.

Download the zip file with the version 2.0.0.1.

<http://www.ixiacom.com/support-overview/product-support/downloads-updates> (select IxLoad)

<https://strikecenter.ixiacom.com/bps/osupdates>

3. Format the USB memory stick using the FAT 32 file system and unzip the package on it

Unzip the contents on the directly on the USB stick, on the root location.

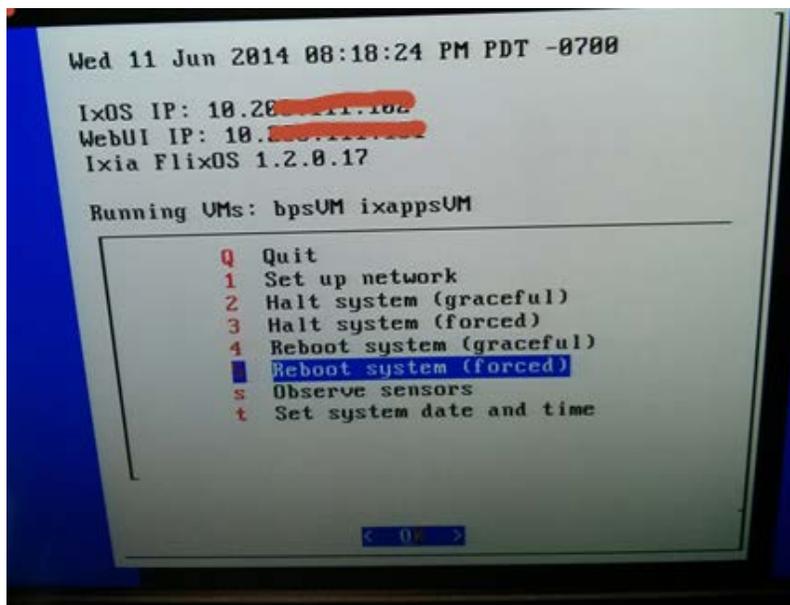
4. Connect the USB stick to the chassis

Connect the USB stick to the chassis. Note: Some USB Memory sticks may block the boot process. If you see that the unit is not booting up and nothing comes on the screen in 5 minutes try reinserting the USB in another USB plug and reboot. If it is still happening please try using another brand of USB memory stick.

5. Reboot the chassis from the admin screen

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

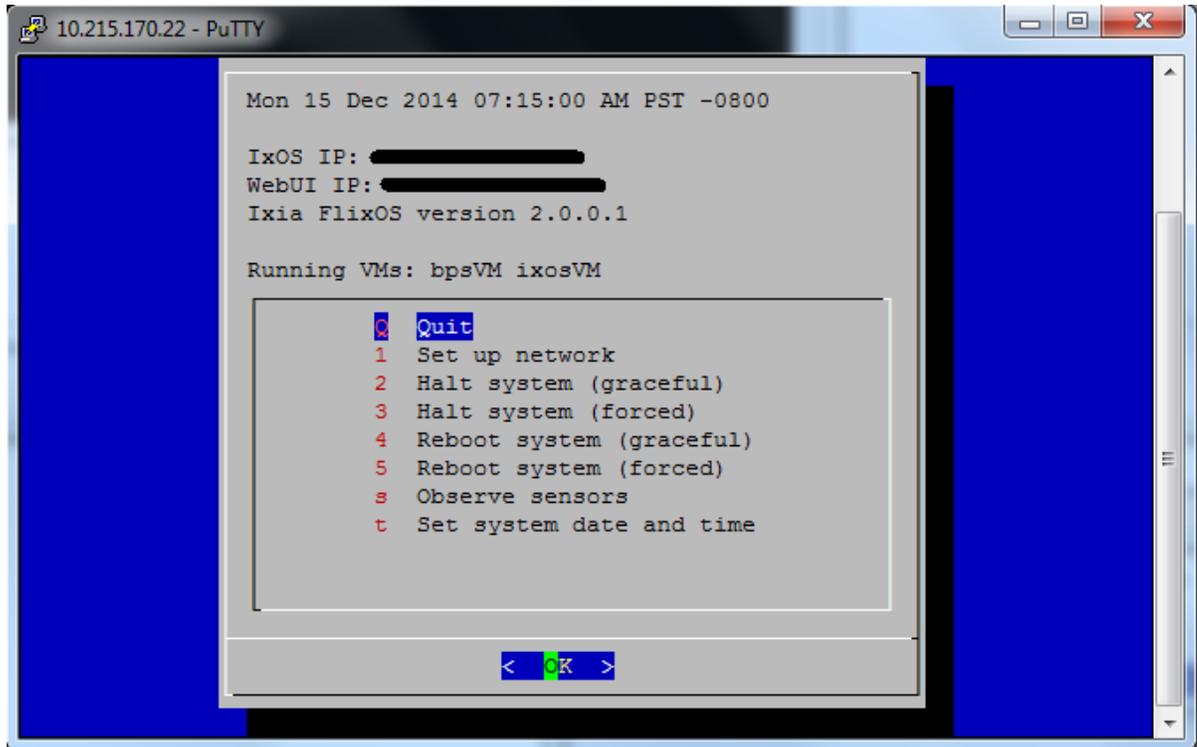
The admin menu should look similar to the picture below. Please select Option 5 (Forceful reboot), and wait for the chassis to restart.



6. Validate the update

Login either directly or by SSH on the port 8022 using username admin password admin to get to the admin menu.

- Verify all VMs are running as on the picture below.
- Ixia FLIX OS version was update properly as in the picture below.



Final Notes

This procedure applies only to FLIX OS Version 1.2.0.17 or later.

Some USB Memory sticks may block the boot process. If you see that the unit is not booting up and nothing comes on the screen in 5 minutes try reinserting the USB in another USB plug and reboot. If it still happening try using another brand of USB memory sticks.

Please contact Technical Support if you have difficulties performing the update: <http://www.ixiacom.com/support/>