Brocade Fabric OS v4.2.1 Release Notes_v1.2

April 30, 2004

Document History

Document Title	Summary of Changes	Publication Date
Brocade Fabric OS v4.2.1 Release Notes_v1.0	First release	April 8, 2004
Brocade Fabric OS v4.2.1 Release Notes_v1.1	Open Defects consolidated into a single table. Revised description of the Open Defect table.	April 12, 2004
Brocade Fabric OS v4.2.1 Release Notes_v1.2	Revised summary for Defect 38928.	April 30, 2004

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Overview

The Brocade SilkWorm 3016 switch is designed for use in the **IBM @server® BladeCenter™** and IBM OEM Partners; this switch is also called the Brocade® SAN Switch Module for **IBM @server® BladeCenter™**. The Brocade® SAN Switch Module for **IBM @server® BladeCenter™** is an embedded 16-port Fibre Channel switch that simplifies the integration of a standard network environment with a SAN-switched storage solution through its inclusion in the IBM BladeCenter ecosystem of products.

Limitations

Brocade Fabric OS v4.2.1 is supported only on the SilkWorm 3016. Attempts to load this software release on Brocade switches other than the SilkWorm 3016 will result in file-not-found errors. At the same time, the SilkWorm 3016 is not supported by any previous versions of Brocade Fabric OS, including v4.2.0. Attempts to load any release prior to Brocade Fabric OS v4.2.1 on a SilkWorm 3016 will result in file-not-found errors.

Changes in Fabric OS v4.2.1

Brocade Fabric OS v4.2.1 is functionally identical to Fabric OS v4.2.0 except for the following enhancements and new features required to support the SilkWorm 3016 for use in the **IBM @server® BladeCenter™**:

- Support for the integrated SilkWorm 3016 switch embedded into **IBM @server® BladeCenter™,** including chassis management and environmental support
- Support for the default administrative login USERID/PASSW0RD (the "0" is a zero) required for components integrated into **IBM @server® BladeCenter™**, plus the capability to change the login name

Later sections of these notes provide a more detailed list of updates. Fabric OS v4.2.1 contains no changes to Fabric OS v4.2.0 other than those required to support the SilkWorm 3016.

Important Notes

This section lists information you should be aware of when running Fabric OS v4.2.1.

Special note for long-distance usage. The two external ports of the SilkWorm 3016 can be configured as long-distance ports, but the user must be aware that these ports (0 and 15) share buffers with the internal ports 9 and 10. Certain long-distance configurations, depending on the length and speed of the links involved, might affect the performance of servers in bays 9 and 10 of the **IBM @server® BladeCenter™** and, in the most extreme cases, can prevent these ports from coming up. See the "Other Notes" section for more information.

Mixed-Fabric Environment with Different SilkWorm Platforms

Fabric OS v2.6.2/v3.1.2/v4.2.0/v4.2.1 introduced a new switch port ID (PID) addressing format: extended-edge PID (Format 2). Extended-edge PID might be useful if you introduce a SilkWorm 3016 (Fabric OS v4.2.1) into a fabric consisting solely of Fabric OS v2.x/v3.x switches using native PID addressing (Format 0).

To determine if Fabric OS v2.x/v3.x switches are in PID Format 0, the user can use the **configshow** command, as follows:

```
2109-F16 Switch: admin> configshow

diag.postDisable: 1

fabric.domain: 3
```

```
. . .
fabric.ops.mode.pidFormat:0
```

Before adding a SilkWorm 3016 (Fabric OS v4.2.1) switch to such a fabric, refer to *Brocade Fabric OS Procedures Guide*, v4.2.0, Publication Number 53-0000518-03, for information on extended-edge PID format. Note that in order to use extended-edge PID format, Fabric OS v2.6.2, v3.1.2, v4.2.0, and v4.2.1 must be deployed together, as applicable, to all switches in the fabric.

Advanced Web Tools Updates

- When using a mixed fabric—that is, a fabric containing v4.x, v3.x, and v2.x switches—Brocade recommends that you use the most advanced switches to control the fabric. For example, use the v4.x switches as the primary FCS with Brocade Secure Fabric OS, the location to perform zoning tasks, and the time server (CLI). Brocade also recommends that you use the most recently released firmware to control the fabric.
- **Issue.** If a dialog box is displayed from the **Switch Admin** window of Advanced Web Tools and the user selects another dialog box from Advanced Web Tools, this causes a window display error.

  Workaround. This is a known defect in Java 1.3, documented at *www.java.sun.com*, bug ID 4763605. To avoid the display error, open only one dialog box at a time or launch another switch admin session in a separate window.
- Two domain/four domain fabric licensing, as defined by the OEM

  If your fabric includes a switch with a license for a limited number of switches in the fabric and the fabric exceeds this switch limit, Advanced Web Tools allows a 45-day "grace period" in which you can still monitor the switch. However, Advanced Web Tools displays warning messages periodically during this time.

  These messages warn that your fabric size exceeds the supported switch configuration limit and tells how long before Advanced Web Tools will be disabled. After the 45-day grace period, you can no longer launch Advanced Web Tools from the switch with the limited switch license if that switch is still exceeding the switch limit.
- Advanced Web Tools browser, operating system, and Java Plug-in support is updated for Fabric OS v4.2.0/v4.2.1. The following table identifies the supported browsers, operating systems, and Java Plug-ins for this release.

Operating System	Browser	Java Plug-in
RedHat Linux 9.0	Mozilla 1.4	1.4.2
Solaris 2.8	Mozilla 1.4	1.4.2
Solaris 2.9	Mozilla 1.4	1.4.2
Windows 2000	Internet Explorer 6.0	1.3.1_04 1.4.1_02 (recommended)
Windows 2003	Internet Explorer 6.0	1.3.1_04 1.4.1_02 (recommended)
Windows XP	Internet Explorer 6.0	1.3.1_04 1.4.1_02 (recommended)

- The additionally supported browsers, operating systems, and Java Plug-ins introduce the following limitations when using mixed OS versions in Advanced Web Tools v4.2.0/v4.2.1.

Launch Switch Environment	Problems
Firmware: version *prior* to Fabric OS v2.6.2, v3.1.2, or v4.2.0 with secure mode enabled **Operating System:** Solaris Browser: **Mozilla**	**Issue**: If you try to launch the Switch Admin, Zoning, Fabric Watch, or High Availability Admin using firmware versions prior to v2.6.2, v3.1.2, or v4.2.0 on a Solaris operating system with a Mozilla browser, the browser might crash due to a buffer overflow problem with Mozilla. **Workaround**: Although the Netscape browser is not supported by Web Tools for switches running Fabric OS v2.6.2, v3.1.2, or v4.2.0 or later, if you must access the Switch Admin, Zoning, Fabric Watch, or High Availability Admin on a switch running firmware versions prior to v2.6.2, v3.1.2, or v4.2.0, from a Solaris operating system, use the Netscape 4.77 browser.
Firmware: versions *prior* to Fabric OS v2.6.2, v3.1.2, or v4.2.0 **Operating System:** any supported operating system (with supported browser) **Browser:** any supported browser (on supported operating system)	**Issue**: When you are trying to access a switch running firmware versions prior to Fabric OS v2.6.2, v3.1.2, or v4.2.0 from the launch switch, Switch Explorer displays a null pointer exception and the SwitchInfo applet does not display; Switch Explorer does not work properly with switches running the latest firmware. **Workaround**: Use a launch switch running Fabric OS v2.6.2, v3.1.2, or v4.2.0 or later to access the switch.
Firmware: versions *prior* to Fabric OS v2.6.2, v3.1.2, or v4.2.0 **Operating System:** any supported operating system (with supported browser) **Browser:** any supported browser (on supported operating system)	**Issue:** The Name Server table does not display properly for a switch running firmware versions prior to Fabric OS v2.6.2, v3.1.2, or v4.2.0. **Workaround:** If secure mode is enabled, select a switch running Fabric OS v2.6.2, v3.1.2, or v4.2.0 or later as the primary FCS switch. If secure mode is not enabled, use a launch switch running Fabric OS v2.6.2, v3.1.2, or v4.2.0 or later to access the Name Server table on the switch.
Firmware: versions *prior* to Fabric OS v2.6.2, 3.1.2, or 4.2.0 **Operating System:** Solaris **Browser:** Netscape	**Issue**: Any switches running Fabric OS v2.6.2, v3.1.2, or v4.2.0 or later are unsupported through Netscape. **Workaround**: The Netscape browser is not supported by Web Tools for switches running Fabric OS v2.6.2, v3.1.2, or v4.2.0 or later. Use the Mozilla browser to manage all of your switches from a Solaris operating system.
Firmware: versions *prior* to Fabric OS v2.6.1, v3.0.x, or v4.0.x **Operating System:** Windows **Browser:** Internet Explorer	**Issue**: When you are trying to run the Fabric View, the browser might crash. **Workaround**: Use a launch switch that runs Fabric OS v2.6.1, v3.0.x, or v4.0.x or later so that you can use Switch Explorer instead of Fabric View.

Changes in Fabric OS v4.2.1 Unique to the SilkWorm 3016

Changes to Advanced Web Tools

Advanced Web Tools has a new icon to represent the SilkWorm 3016 switch (see Figure 1).

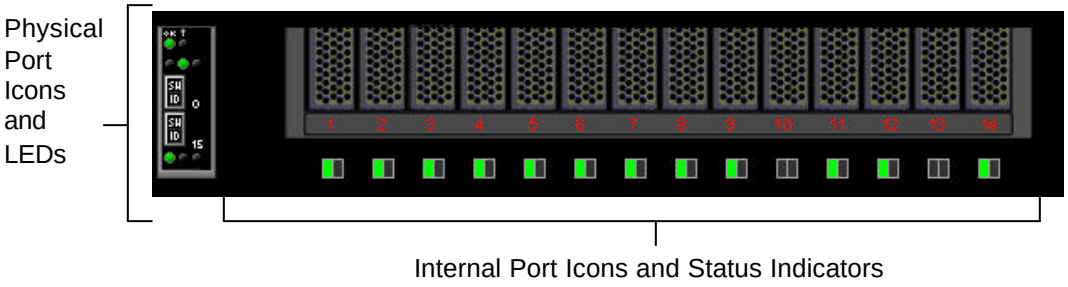

Figure 1: Brocade SilkWorm 3016 Switch Icon

Note that ports 1 through 14 and the associated status indicators in Figure 1 represent ports internal to BladeCenter that connect to the 14 server slots.

The switch icon for the Brocade SilkWorm 3016 switch consists of the following:

- External ports and status LEDs
- Internal ports and status indicators
- Switch status LEDs

Refer to the *SilkWorm 3016 Hardware Reference Manual* (Publication Number 53-0000453-01) for detailed information.

The **Switch View**for the SilkWorm 3016 switch does not have a **Fan** button or a **Power** button, as there is no fan or power supply associated with the SilkWorm 3016 (see Figure 2).

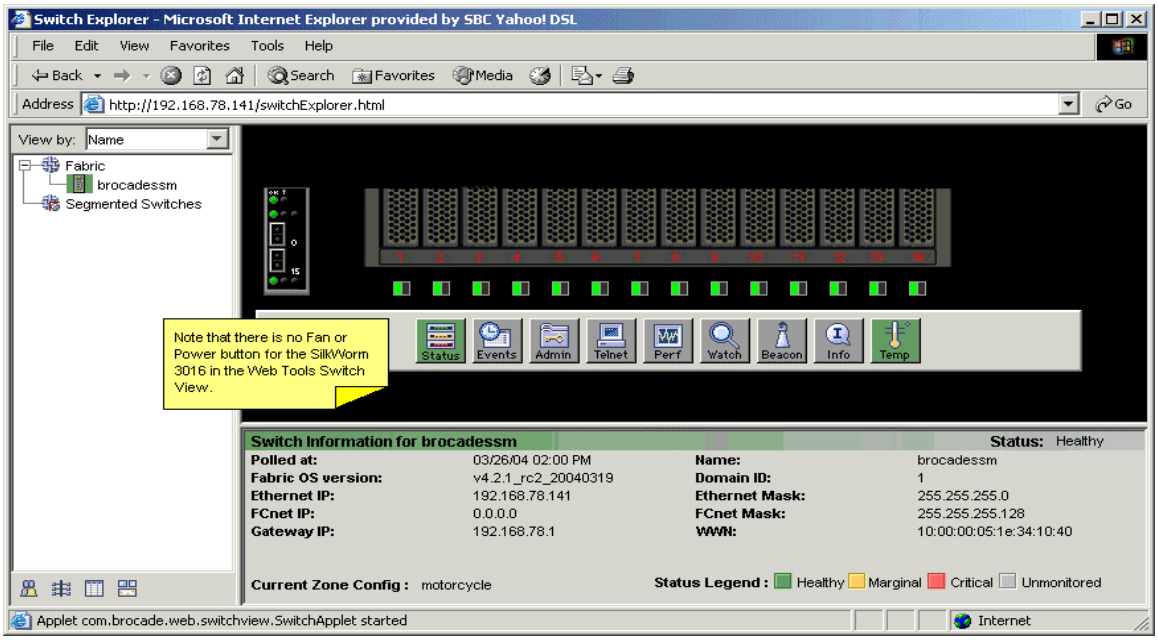

Figure 2: Switch View of the SilkWorm 3016 Switch

Port Info Tab

The **Port Info** tab displays 16 port tabs (0 through 15) for the SilkWorm 3016 switch.

The **SFP** subtab on the **Port Info** dialog displays “NO SFP INFO AVAILABLE” for the 14 internal ports of the Brocade SilkWorm 3016 switch (see Figure 3).

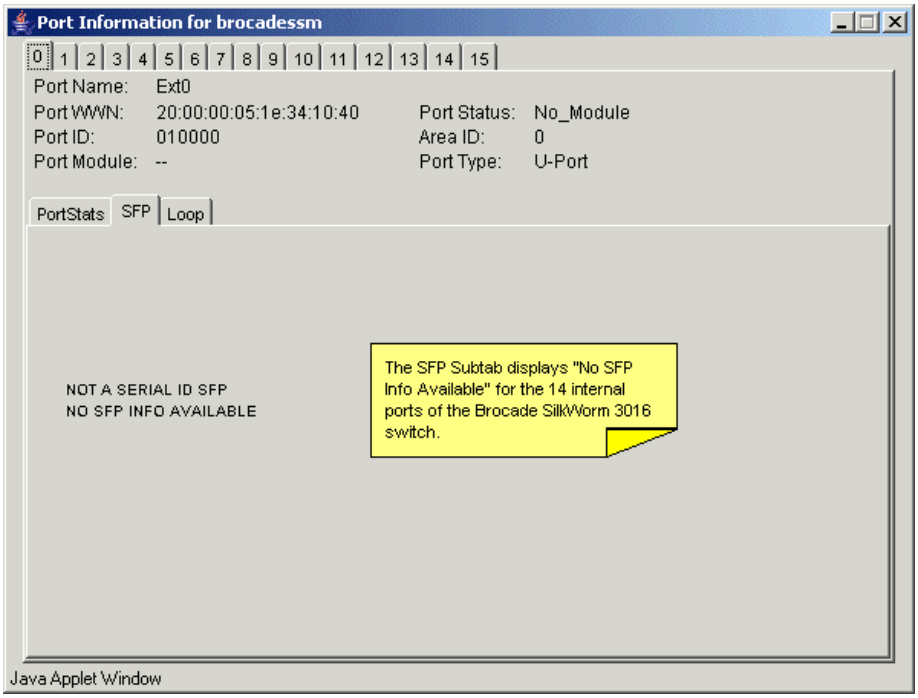

Figure 3: SFP Subtab in the Port Info Dialog for the SilkWorm 3016 Switch

The **Loop** subtab on the **Port Info** dialog displays “NO LOOP INFO AVAILABLE” for the 14 internal ports of the Brocade SilkWorm 3016 switch (see Figure 4).

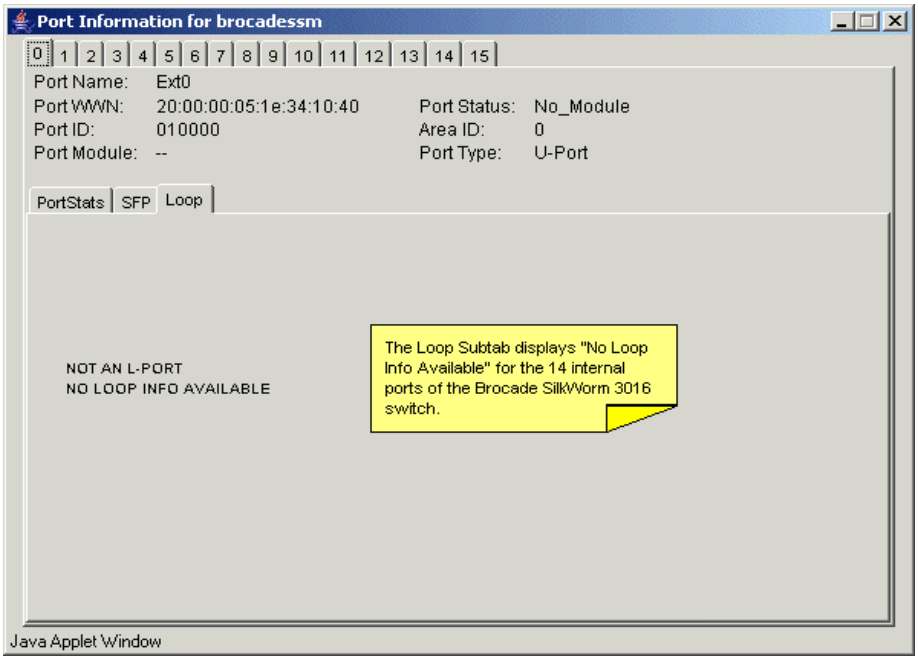

Figure 4: Loop Subtab in the Port Info Dialog for the SilkWorm 3016 Switch

Changes to Fabric Watch

Following are important notes regarding the Fabric Watch feature for Fabric OS v4.2.1 on the SilkWorm 3016 switch (see Figure 5):

- No fan or power supply information for the Brocade SilkWorm 3016 switch is displayed, as there are no fans or power supplies associated with the switch.
- An additional Fabric Watch element, the F/FL PortCopper Class, has been added to allow the monitoring of the 14 internal copper ports.
- Field replaceable units (FRU) and related functions are not displayed for the Brocade SilkWorm 3016 switch, as there are no FRUs associated with the switch.

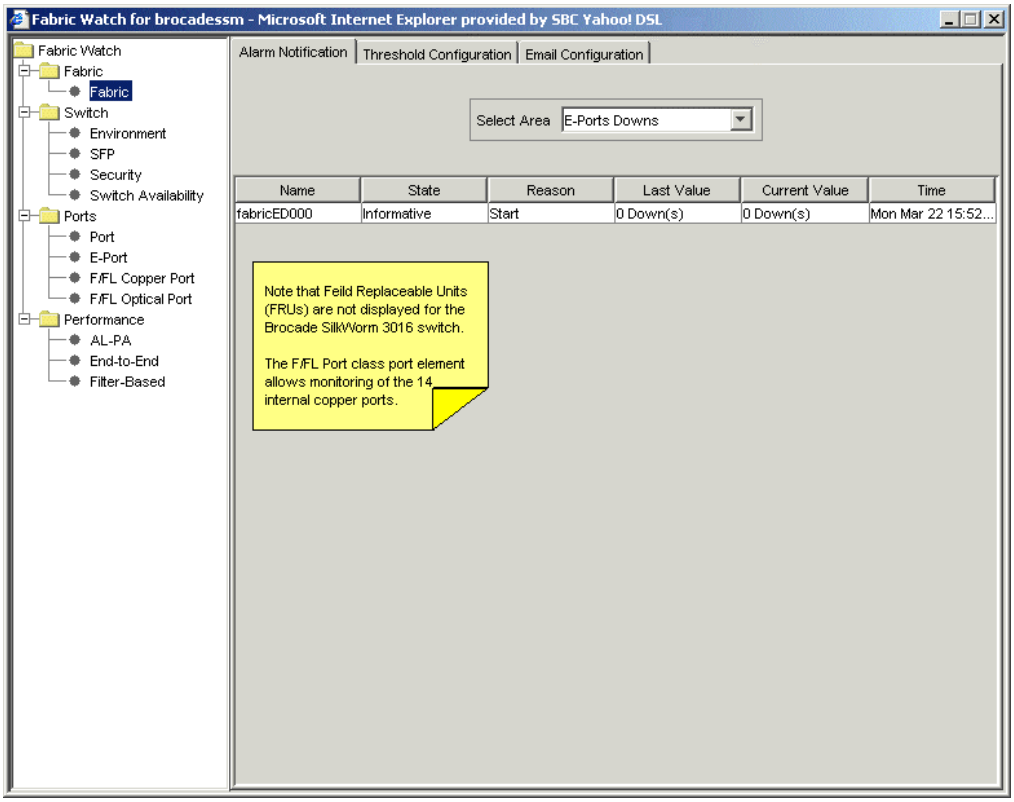

Figure 5: Fabric Watch Dialog for the SilkWorm 3016

Refer to the *Brocade Fabric Watch User's Guide*, v4.2.0 (Publication Number 53-0000524-03) for more detailed information.

Changes to ISL Trunking

If your SilkWorm 3016 switch is licensed for the optionally licensed Brocade ISL Trunking feature, the two external ports can be used as a trunking group. This means that ports 0 and 15 can join a trunking group on another SilkWorm switch that supports ISL Trunking. Refer to the *Brocade Fabric OS Features Guide*, v4.2.0 (Publication Number 53-0000395-01) for more detailed information.

Changes to Performance Monitoring

All setup of performance monitor graphs display port names in addition to the port number for the SilkWorm 3016 switch (see Figure 6).

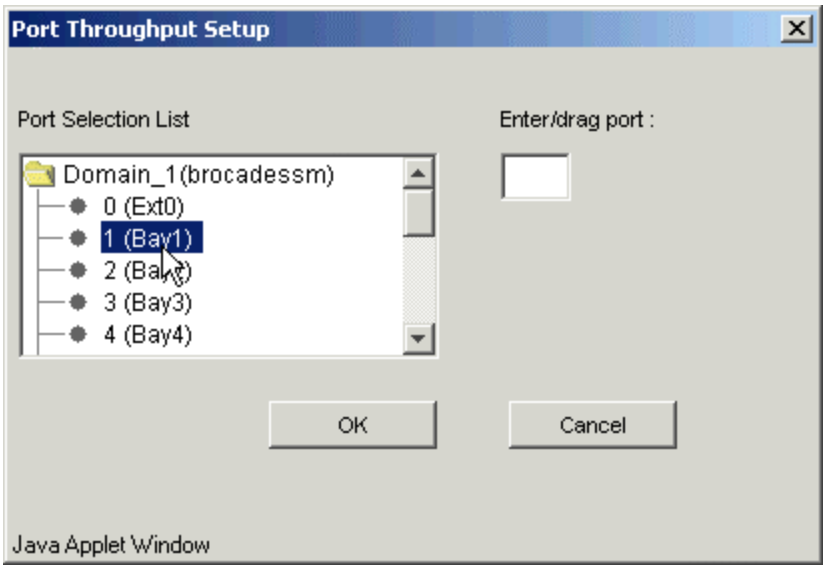

Figure 6: A Performance Monitor Graph Setup Dialog Listing Port Names

Refer to the *Brocade Fabric OS Features Guide*, v4.2.0 (Publication Number 53-0000395-01) for more detailed information.

Changes to Secure Fabric OS

The SilkWorm 3016 switch has a different default user name than "admin," which exists on all other SilkWorm switch products. Due to this change, a new command, **userrename,** must be used to rename the default "USERID" user account to "admin" before connecting the SilkWorm 3016 to a secure fabric made up of other Brocade SilkWorm switches. This command is documented later in this release note.

Refer to the *Brocade Secure Fabric OS User's Guide*, v2.6.2/3.1.2/4.2.0 (Publication Number 53-0000526-03) and the *Brocade Secure Fabric OS QuickStart Guide*, v2.6.2/3.1.2/4.2.0 (Publication Number 53-0000352-03) for more detailed information.

Changes to Fabric Licensing

The SilkWorm 3016 will be shipped in two versions. The first version will be called the Brocade® Entry SAN Switch Module for **IBM @server® BladeCenter™**. This switch will be shipped with a two-domain fabric limitation. The second version will be called the Brocade® Enterprise SAN Switch Module for **IBM @server® BladeCenter™**. This switch will be shipped with a full fabric license.

Refer to the *SilkWorm 3016 Hardware Reference Manual* (Publication Number 53-0000453-01) for more information.

Changes to Fabric Manager

The SilkWorm 3016 is supported by Fabric Manager v4.1.1.

Refer to the *Brocade Fabric Manager User's Guide*, v4.1.1 (Publication Number 53-0000823-05) for more information.

Other Notes

This table lists other important information you should be aware of regarding the SilkWorm 3016.

SilkWorm 3016	Description
ifmodeset command unsupported	**Issue:** Use of the **ifmodeset** command is unsupported. Do not use the **ifmodeset** command to change the operating mode of the "eth0" interface to the Brocade SilkWorm 3016 for **IBM @server®BladeCenter™**. The internal Ethernet in the **IBM @server® BladeCenter™** chassis operates exclusively in fixed 100-Mbit full-duplex mode. Using **ifmodeset** could disconnect your Ethernet connection to the SilkWorm 3016. **Workaround:** The "eth0" interface operating mode is correctly set (to 100-Mbit full-duplex) each time the Silkworm 3016 is rebooted. If Ethernet connectivity is lost due to a mode change, the switch can be reset using the Management Module's chassis-management application.
Trunking and long-distance mode	The SilkWorm 3016 switch does not support trunking mode or long-distance mode on internal ports (ports 1 through 14). If you try to enable trunking or long-distance mode on ports 1 through 14, the command line interface and Advanced Web Tools return an error message.

Fabric OS Area	Description
Brocade Secure Fabric OS, enabling	To enable Brocade Secure Fabric OS on the SilkWorm 3016, the IDs for each of the four login levels must be set to the Brocade-specific default IDs of "root", "factory", "admin", and "user". Because the root-level and factory-level IDs cannot be changed, it is only necessary to ensure that the admin-level and user-level IDs are correct. On the SilkWorm 3016, the default admin-level ID is "USERID", so very rarely will you have to use the **userrename** command to change the admin-level ID to the Brocade-specific default of "admin" (for example, **userrename USERID admin)**. Note that the default user-level ID is "user", so it only has to be reset if it was previously changed.
Diagnostic commands	The diagnostic commands **fporttest** and **porttest** are not supported on the internal ports 1 through 14.
	The commands **spinsilk** and **spinjitter** must be run with the additional argument *-lb_mode 2* on the SilkWorm 3016 switch's internal ports. If these commands are run without this argument, they fail on all internal ports, because they default to external loopback mode, which requires a loopback plug or cable.

Fabric OS Area	Description
Extended links	The user must be very careful when using the Brocade Extended Fabrics optionally licensed feature with the SilkWorm 3016 switch. The Extended Fabrics feature allows the user to configure external ports (0 and 15) for long-distance performance; however, certain long-distance configurations can disable the other external (and possibly some internal) ports, as well as possibly causing a disruption in traffic. When considering configuring external ports for long distance, both the port speed (1 or 2 Gbit/sec) and distance setting (L0.5, L1, L2, and LD) must be considered. The two internal ports 9 and 10 might be disabled due to long-distance configuration of the external ports. For external ports operating at 2 Gbit/sec, the following restrictions should be observed: •Setting two ports to L2 (60 km) is not allowed. •Setting one external port to L2 (60 km) and the other external port to L0.5 (25 km) will disable two internal ports. •If you set one external port to L2 (60 km) and the other external port is an E_Port, then one internal port will be disabled. •Setting both external ports to L1 (50 km) will disable two internal ports. •Setting one external port to L1 (50 km) and the other external port to L0.5 (25 km) will disable one internal port. •If you set one external port to L1 (50 km) and the other external port is an E_Port, then one internal port will be disabled. •Setting both external ports to L0.5 (25 km) will disable one internal port. •Using the LD setting for the external ports will create uncertain results. LD mode autosenses the actual cable lengths and, depending on their distances, might disable internal and/or external ports, as described earlier. For example, if the two external ports are set to LD and the cable lengths are both 50 km, then internal ports 9 and 10 will be disabled. For more information regarding extended fabric setup and usage, refer to *Brocade Distributed Fabrics User's Guide* v3.1.0/4.1.0 (Publication Number 53-0000516-02).
Firmware download	**Issue:** During a firmware download, rebooting or power cycling might corrupt the compact flash. **CAUTION: Do not attempt to power off during firmware download, to avoid high risk of corrupting your flash.**

Fabric OS Area	Description
IP address configuration	The Ethernet IP address, Ethernet subnet mask, and gateway IP address should not be configured using local mechanisms on the switch, such as the **ipaddrset** CLI command or Advanced Web Tools. The values must be configured using the **IBM @server® BladeCenter** Management Module's chassis-management GUI, because all IP Ethernet access to the switch module itself is forwarded through the Management Module. If the switch IP address information is changed without changing the Management Module configuration, then telnet access to the switch will very likely be lost. Note that this restriction does not apply to the Fibre Channel IP address and the Fibre Channel subnetmask (also referred to as the "in-band IP address" and "subnetmask"). These can still be configured using any of the standard switch-management mechanisms.
License removal	When a user removes a license from the switch, the feature is not disabled until the switch is rebooted or a switch disable and enable is performed.
Management using IP over FC	To manage the Brocade SilkWorm switch using IP over FC, both the IP address and subnet need to be set to 0.0.0.0. As a result of an error message from the BladeCenter Management Module on these changes, the implementation of single Ethernet connection (SEC) on the SilkWorm 3016 can be deployed only as the Ethernet-to-FC router, not as a switch using IpoverFC addressing only.
switchShow command	The **switchShow** command indicates the CU port state as No_Light when no Fibre Channel signal is received from an internal port on the SilkWorm 3016.
Changing VC encoding settings	**Issue:** Setting PID format to VC-encoded or resetting to another PID format from VC-encoded through Advanced Web Tools or the CLI is not supported. Doing so could result in software watchdog reboot. **Workaround:** Do not use VC-encoded settings.

Command Added in Fabric OS v4.2.1

The **userRename** command, described next, is added in Fabric OS v4.2.1.

userRename

Renames the user ID.

Synopsis	**userrename** *old_userid new_userid*
Availability	admin

Description

Note: When using Brocade Secure Fabric OS, rename the admin-level ID to the Brocade-specific default of "admin" and the user-level ID to the Brocade-specific default of “user” before enabling security; otherwise, the switch will not be allowed in the secure fabric.

Operands

The following operands are required:

old_userid	The current user ID
new_userid	The new user ID

Note: These operand values are case sensitive.

Example

To rename the admin-level ID from “USERID” to “admin”:

```
switch:admin> userRename USERID admin
```

Command Modified in Fabric OS v4.2.1

The **secModeEnable** command is modified, as follows, in Fabric OS v4.2.1.

secModeEnable

Use the **userRename** command to change the user-level ID to “user” and the admin-level ID to “admin” on the local switch if the following error message displays after you issue the **secModeEnable** command:

```
Switch does not have all default account names.
```

Use the **userRename** command to change the user IDs on the specified domain if the following error message displays:

```
Error from domain <domain ID>: Switch does not have all default
account names.
```

Refer to the “Commands Added in v4.2.1” section for **userRename** command details.

Open Defects for Fabric OS v4.2.1

This table of open defects lists those defects that, while still formally "open", are unlikely to impede Brocade's customers in their deployment of Fabric OS v4.2.1. The presence of a defect in this list may be prompted by several different circumstances. Several of the defects were not detected in the months of testing on Fabric OS v4.2.1, but were initially reported against an earlier Fabric OS version in the field. Brocade's standard process in such cases is to open defects against the current release which *might* experience the same issues, and close them only when a fix is implemented, or if it is determined that the problem does not exist with the current release. In other cases, a fix has been developed, but has not been implemented in this release because it requires particularly extensive code changes or regression testing to ensure that the fix does not create new problems. Such fixes will appear in future releases. None of them have the requisite combination of probability and severity to cause significant concern to Brocade's customers.

This table lists defects opened against the current Fabric OS release, version 4.2.1, which are being deferred to a future release.

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000024431	High	Summary: Switch (active CP) reset when switchdisable/enable script running. Symptom: Overnight stress test which involves issuing simultaneous switchdisable commands to all 34 switches of a core-edge fabric, followed by simultaneous switchenable commands to all 34 switches. Customer Impact: This is a Stress to Fail test case that requires running for long periods of time before encountering the CP reset on one of the core switches. The switch performed a fail-over, and the fabric continued to run without disruption. Probability: Medium
DEFECT000025331	High	Summary: Modifying switch and CP IP addresses caused a telnet hang. Symptom: Changing the switch IP address before changing the CP IP address will cause the CP IP address to become inaccessible on a subsequent attempt to set the switch IP address. Workaround: -When both CP and switch IP addresses need to be changed: set the CP IP address first and then the switch IP address. -When only a switch IP address needs to be changed, set the CP IP address first (keeping the current value) and then the switch IP address to its new value. -When only a CP IP address needs to be changed, there is no problem; just change the CP IP address. -If a customer gets into this scenario, telnet into the switch and set the CP IP address again, accepting the default values. Customer Impact: There is a well documented workaround.

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000025474	High	Summary: After fastbooting standby CP of the primary FCS, doing secfcsfailover before HA is in sync results in old primary FCS switch's active CP panicking. Symptom: This is multiple failure test case, on which first the standby CP of the primary FCS switch is issued a fastboot and then prior to the HA state achieving synchronization, a 'secfcsfailover' command is issued from a standby FCS switch. The old primary FCS switch is segmented out of the fabric. Workaround: Issue switchdisable, switchenable to the segmented switch to cause it to rejoin the fabric. Customer Impact: This test case demonstrates a very specific double point of failure that may cause a switch to be segmented from the fabric.
DEFECT000025747	High	Summary: Message "Oops: kernel access of bad area, sig: 11" shows up and switch reset. Symptom: Stress test involving a 34 switch fabric, on which one of the core switches is constantly being issued the hafailover command. Simultaneously, one of the edge switches is constantly having its zoning configuration updated. Workaround: The problem was caused by an error in the test script, in which the zoning cfg command was issued to the Standby CP by accident. Customer Impact: The problem was caused by an error in the test script, in which the zoning cfg command was issued to the Standby CP by accident.
DEFECT000025890	High	Summary: Switch Status Marked As Healthy When CF (compact Flash) 100% Full With Write Errors. Symptom: Switch status does not reflect the down graded potentially critical condition of the switch Comment: The fix for this defect is currently under test. Service Request# RQST00000023238
DEFECT000025910	High	Summary: After changing Ethernet IP address from CLI or from WT, can not launch WT with new IP address Symptom: Web Tools can not be launched with new IP address Customer Impact: Issue is being investigated, and will be targeted for a future release of Fabric OS.

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000025948	High	Summary: 147698 Switch Failed To Generate Any Event, KSWD, Core Dump Notification After RPCD Issue. Symptom: Errshow contains no event notification regarding the failed status of the switch Solution: The problem was initially caused by clients connecting to rpcd and then disconnecting immediately. In some cases, the iothread process that gets created for every worker process does not die and therefore rpcd will not be killed. When clients keep doing this, multiple copies of rpcd will consume all memory space. The customer is asking for some error log to indicate this situation. However, in order to do this then we have to keep monitoring the memory space and find out who is using them. In a large fabric, this will overload the already busy switch. Instead, we just fix the problem when we encounter this kind of error. For example, the solution in this case is: Add sleep for some amount of time before closing worker processes so that io thread can be killed. Adding fclose in between fopen and unlink increases the sleep interval to 15 seconds. Customer Impact: The message produced from this error condition will be improved to be more recognizable and to provide proper guidance. This issue will be targeted for delivery in a future release of the Fabric OS. Service Request# RQST00000023346
DEFECT000025949	High	Summary: v4.1.1_rc2 Firmware Download Hangs Switch After Critical SYSC-ERROR Seen. Symptom: Switch lost connectivity, services not able to support commands, firmware not able to commit until rebooted. Comment: The fix for this defect is currently under test. Service Request# RQST00000023347

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000026152	High	Summary: Fixed 1 Gig channels generate a link incident during Initialization (Login) Symptom: This defect will be seen in a FICON environment only. Fixed 1 gig channels (Both G5 and FICON Express) have been noted to generate a link incident during the link initialization process. Other than the link incident generated by the FICON Host, the link comes up normally. Workaround: Configure the port for fixed 1G speed when connected to 1G devices. Customer Impact: Other than the link incident generated by the FICON Host, the link comes up normally. This fix will be addressed in a future Fabric OS release. Probability: Low
DEFECT000026274	High	Summary: Secure Fabric OS does not handle all SAN gateways properly Symptom: With certain SAN gateway products, Secure Fabric OS will segment the link that uses the gateway product. Workaround: This is actually a request to enhance the capability of the Secure Fabric OS functionality to operate with all gateway products. The capability of the 4.2 firmware to interoperate with gateways is identical to the capability of the 4.1.1 Fabric OS. Customer Impact: This is actually a request to enhance the capability of the Secure Fabric OS functionality to operate with all gateway products. The capability of the 4.2 firmware to interoperate with gateways is identical to the capability of the 4.1.1 Fabric OS. Probability: High
DEFECT000033399	High	Summary: Downloading Configurations(by line) too quickly on 4.1 switches causes switch panic/crash. Workaround: Do not execute repeated configdownload commands in rapid succession Customer Impact: This problem is being addressed with a enhanced configuration management facility in a future Fabric OS release.
DEFECT000033980	High	Summary: Domain RSCN sent when IP-Address of switch is changed Symptom: Causes FICON Host channels to churn unnecessarily and results in IFCC. Comment: The fix for this defect is currently under test.

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000034297	High	Summary: While running API automated suite on both halves of a 12000, the switch dumped core on nsd, panic, and psd. Symptom: While running API automated stress tests on both switches in a SilkWorm 12000, there was a core dump on the switch. Customer Impact: This issue is being investigated and will be addressed in a future Release of Fabric OS.
DEFECT000034473	High	Summary: Mechanism needed to monitor or prevent all instances of compact flash using 100% of capacity. Symptom: Under some rare circumstances, the flash file system fills up completely. Workaround: In 4.2.0, we have implemented several fixes: 1. All known causes of the flash full condition have been fixed in the software. 2. We restrict the size of a Linux file that is known to contribute to the flash full condition. 3. A utility has been added that monitors the utilization of the Compact Flash and reports errors if the flash is above 80% utilization. If this error message is ever seen, customer service should be contacted so that the proper steps can be taken to prevent the flash from completely filling up. We are leaving this defect open, because we will be implementing user configuration of the flash full monitoring in the next release of fabos. Comment: The fix for this defect is currently under test. Service Request# RQST00000024877

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000034835	High	Summary: Switch: 0, Critical SCN-SCNQ_OVERFLOW, 1, SCN queue overflow for nsd Symptom: Critical SCN-SCNQ_OVERFLOW, 1, SCN queue overflow for nsd Workaround: Staying within the scalability limits that 4.2 has been tested with will avoid this problem. This problem can also be avoided if not all devices are brought online at the same time. This problem occurs in a stress condition in a fabric with more devices and switches than it can handle with the current release. (See Scalability limits for fabrics supported with 4.2.0). Scalability enhancements are planned for a future release. Customer Impact: This problem occurs in a stress condition in a fabric with more devices and switches than it can handle with the current release. (See Scalability limits for fabrics supported with 4.2.0). Scalability enhancements are planned for a future release. Probability: Medium Service Request# RQST00000025031
DEFECT000035370	High	Summary: Running "supportshow" on both the logical switches results in Out Of Memory condition and zoning daemon terminates Symptom: Running supportshow on both the logical switches of an edge 12000 switch could result in Out of Memory condition. Workaround: Limit the size of secure fabrics to the size supported by Brocade in this release of the software. Customer Impact: On very large secure fabrics that are outside the limits that Brocade supports, if you issue the supportshow command simultaneously for both switches, you could run into this condition. If security is disabled on the fabric, the problem does not occur. This problem is addressed in a future release that addresses just such scalability issues.

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000035672	High	Summary: NoNodeWWNZoning - cfgenable is no longer sufficient to truly activate this feature. Symptom: NoNodeWWNZoning - cfgenable is no longer sufficient to truly activate this feature.Unable to activate NoNodeWWNZoning with just the cfgenable command. Workaround: Use cfgdisable followed by cfgenable, instead of just cfgenable. Customer Impact: The problem only happens when Node WWN is used in Zoning and will be resolved in a future release. Probability: Medium
DEFECT000036096	High	Summary: SCAL WT: Critical error on SCN queue overflow for weblinker.fcg after disabling all trunks on core switches Symptom: In a large fabric stress scenario when a fabric administrator disables/enables all trunking links on a core 24k switch, the following message Critical 0 "SCN-SCNQ_OVERFLOW SCN queue overflow for weblinker.fcg" may be seen in the event page of WT. This message is also seen on the console when the action is performed repetitively on the core 24k switch. This message is benign. It does not have any impact on the operation of the switch. Solution: To avoid SCN message queue overflow, dynamically register/de-register for remote SCN ongetting domain valid/invalid scn respectively. Customer Impact: This happens only in a large fabric (26 switch, 1280 port) stress environment when a fabric administrator disables/enables all trunking links on a core 24k switch. The message Critical 0 "SCN-SCNQ_OVERFLOW SCN queue overflow for weblinker.fcg" is seen in the event page of WT. Even though message is reported critical, it is NOT critical. This message is benign. It does not have any impact on the operation of the switch. This problem will be fixed in a future release
DEFECT000037154	High	Summary: Firmware download on SilkWorm 3250/3850: power cycle switch - Oops panic, in swapper Symptom: During a firmwaredownload operation, if the power to the switch is interrupted, the message "Oops kernel access of bad area" may appear on the console. Workaround: During a firmware download, user must not interrupt the power supply to the switch. Probability: Low Comment: The fix for this defect is currently under test.

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000037389	High	Summary: SCALABILITY: Out of Memory: Killed process 686 (fwd). and switch reset Symptom: switch reset. Customer Impact: This problem happened once when the system was in an unknown state (both SQA and development were using the system). We will continue to track this problem and also put in additional instrumentation in the code to help us diagnose this problem when it happens again. Probability: Low
DEFECT000038065	High	Summary: Core dump for fspfd in interopmode Symptom: When changing interop modes, switching between interop and native mode, an fspfd core dump may occur due to clearing an element in a data structure beyond the allocated size. Workaround: The user must reboot the standby cp before rebooting the active cp. Customer Impact: When the user changes from interop mode to native mode, the number of domains changes (128 to 240). Upon disabling interopmode, it is recommended to reboot the switch. In a dual cp system, a reboot of the active cp will cause the standby to take over. The defect is the standby was intialized with only the smaller number of domains thus when the standby goes active, the larger number of domains is used to intialized all of the fspfd arrays which causes a signal 11 in the fspfd. The workaround is to reboot the standby cp before you reboot the active cp. In addition, a future release will have a fix that will emliminate the need to reboot the standby. Probability: Medium

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000038702	High	Summary: Switch fails to send swFabricWatchTrap Symptom: Remove and insert the ISL several times, observe that switch fails to send swFabricWatchTrap for events in the following areas: - eportSync - eportSignal - eportState - fopportLink - fopportSync - fopportSignal - fopportState Probability: Low Comment: The fix for this defect is currently under test. Service Request# RQST00000026464
DEFECT000039297	High	Summary: Firmwaredownload from 4.2.0_rc1 to 4.2.0_rc2, seeing "sysctrld: error in loading shared libraries: sysctrld: undefined symbol: hilGetSysTotalUport" and CPs started failing over back and forth with panic. Customer Impact: The problem happened when SilkWorm tried to execute a binary that wasn't removed when a firmwre download occurs. The firmwaredownload was from 4.1.x to 4.2.0 . We do not know how the switch still had the left-over binary. Effort to reproduce this problem has not yielded the same failure. Probability: Low
DEFECT000039674	High	Summary: Security vulnerabilities in 2gb switches and FOS Service Request# RQST00000028033
DEFECT000040165	High	Summary: CP blade chip initialization fails leading to internal routing error and switches disabled. Customer Symptom: Occasional faults for the port/CP blades happen either during switch brings up or when new port blades are plugged-in or during power up after POST get completed. The failure is less likely if POST is disabled. When this failure happens, the slotshow command indicates the blade is faulted. Solution: Chip initialization has not completed before timeout happens. Corrected the flag setting and extended chip initialization timeout. SR#. RQST00000028155

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000040331	High	Summary: Slotshow command returns incorrect "Faulty" status when CP blade slider down. Customer Symptom: When moving the slider on the active CP when the standby is running post, CP states inconsistent with the position of the slider or spurious power failure states, FAULTY (50), may result. Solution: During the discovery part of early recovery, if the Environmental Monitor (EM) finds a blade in POST it pushes down a “shutdown slot”. The “shutdown slot” was returned to EM as an SCN to do a shutdown_sync operation, which immediately powers off the blade. The delayed response makes this look like a power failure. The fix is to make sure that even “shutdown slot” requests will not result in a shutdown SCN being returned. SR#. RQST00000028216
DEFECT000040515	High	Summary: Setting PID format to VC Encoding or re-setting to other PID format from VC Encoding through Web Tools and enabling switch causes Software Watchdog reboot. Customer Symptom: Observes following in errlog caused by Performance Monitor assertion on VC Encoding mode: Switch: 0, Critical kSWD-kSWD_GENERIC_ERR_CRITICAL, 1, kSWD: Detected unexpected termination of: "[12 psd:0'RfP=623,RgP=623,DfP=0,died=1,rt=17817486,dt=50714,to=50000, aJc=17765986,aJp=17749385,abiJc=477796000,abiJp= Solution: Remove the option (switch panic trigger) from CLI and web tool configure menu and configure help page; "fabric.ops.mode.vcEncode.0" will still be seen in the switch configuration database, which will be addressed in a future release. Workaround: Do not change VC Encoding settings. SR#. RQST00000028276

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000040606	High	Summary: Panic rebooting seen from emd on both CPs after lowering slider on port blade at start of cold recovery. Customer Symptom: If a powered on port blade's slider is opened while no active CP is available to power it off, then the switch will continuously reboot on alternating sides until one of the workarounds is performed. Some scenarios on no active CP is available would be at the very beginning of a cold fail-over, or while both CPs have been powered off via slider, or after both CPs have just been rebooted, and a cold recovery follows. Solution: Do not notify system module of powering down slot during cold recovery sequence since it is not needed. Workaround: Power cycle the whole switch, or Close the port blade slider on not yet powered off port blade, or Unseat the port blade. SR#. RQST00000028329
DEFECT000040608	High	Summary: SilkWorm 24000 only needs 2 power supplies to have redundant power; However, Fabric Watch will generate an error that reports a faulty power supply in the empty slot when power slots are not fully populated. Customer Symptom: Fabric Watch reports error on empty power slot as following: Switch: 0, Warning FW-BELOW1, 3, envPS004 (Env Power Supply 4) is below low boundary. current value : 0 (1 OK/0 FAULTY). (faulty) Solution: Fix Fabric Watch to not monitor slot that power supply is not present. SR#. RQST00000028330
DEFECT000040852	High	Summary: Critical diag errors occurred during a temperature cycle at 0 degrees C caused blade to be faulted. Customer Symptom: SilkWorm 24000 experiencing this issue will fault the card reporting the error. The rest of the system will continue to operate in a normal mode. Solution: Corner case in handling exception frames while running diagnostics at low temperature (below 0 degrees C). Modified the driver. Workaround: The card can be recovered by power cycling the card or switch reboot. SR#. RQST00000028400

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000041453	High	Summary: Zone daemon asserts caused switch to panic during fabric reconfiguration. Customer Symptom: Switch reboot with: ASSERT - Failed expression: (d >= 0) && (a_p >= 0), file = public.c, line = 1620, user mode Solution: Fix a race condition where a remote switch requests login data at the same time that the local domain becomes invalid.
DEFECT000041595	High	Summary: False error message is generated for power supply. Customer Symptom: Switch: 0, Critical EM-SENSOR_RESET, 1, Slot 0 is being reset Sensor(s) has exceeded max limits Solution: Added filtering for MAX voltage values: 0xFF
DEFECT000015117	Medium	Summary: [Inconsistency] : Commands not permitted in the present login must display "Permission denied" message Customer Impact: This defect is requesting to have the "permission denied" message used consistently when the login level (user,admin,root) is trying to run a command which is not executable at that shell level. For instance, if a user level login tries to execute a root command, the message "rbash: command not found" may be displayed. This has no effect on the functionality of the commands executed or the ability to have proper access to the commands for the particular login level. Probability: High
DEFECT000018526	Medium	Summary: perfShowEEMonitor slot/port, interval of 5 will print out one line of all ZERO when it reach the RX and TX count some where around 0x40000000 Symptom: perfShowEEMonitor slot/port, interval of 5 will print out one line of all ZERO when it reach the RX and TX count some where around 0x40000000 Customer Impact: The current implementation of end-to-end and filter based monitors dictates that hardware counters be probed at 5 second intervals. As a result, the RX and TX counts could show values of 0 occasionally. When that happens, the next RX and TX values will show the correct values again. The fix for this problem will be implemented in a future release

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000020315	Medium	Summary: Executing portCfgISLMode without any parameters must display the port status... Symptom: Without parameter, instead of display Usage as 4.x, some cmds display "Show" information in 2.x/3x Solution: We have disallowed the request made on this defects description. However, we have made one change to ensure that 2.x,3.x and 4.x behave the same way. This change is to make portCfgLport output the 'show' information when no parameters are included. Customer Impact: This is a display consistency issue across release, will fix in a future release.
DEFECT000020413	Medium	Summary: Trackchanges indicates "successful login" even if user is rejected. Symptom: If the maximum # of users has been reached, and a user attempts to login with correct username and password, the user will be rejected for exceeding maximum number of users, however, trackchanges will indicate "successful login" Workaround: No Workaround. Customer Impact: The solution for this is still being worked on and will require substantial design level changes.
DEFECT000021272	Medium	Summary: Scalability: don't show the Broadcast message of one switch instance in another switch (when they are on same CP) since they might be part of different secure/non secure fabric Symptom: On SilkWorm 12000 platforms, security event messages are broadcast for any switch instance are broadcast to the users of both switch instances. Workaround: None. Customer Impact: This is the defined behavior of the current implementation. An enhancement to restrict the broadcast of messages to the switch instance on which the event occurs is being contemplated for a future FOS release.
DEFECT000021352	Medium	Summary: fruHistoryTrap is not generated or is not generated properly. Symptom: SNMP FRU history trap is not always generated as expected. Customer Impact: With the addition of the Managed WWN card Hot swap, the FRU trap mechanism does not always catch the fact that the WWN card has been replaced. However, this is not like a blower which can be hot swapped without the administrator knowing about it. Hot swap of the WWN card REQUIRES active participation by the administrator.

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000021500	Medium	Summary: Functionality problems w/ Topology Commands(GATIN) Symptom: An update to the standards protocols was made for the GATIN command, and the new modes are not supported This is a MS command used to discover the topology of the fabric. Comment: The fix for this defect is currently under test.
DEFECT000021881	Medium	Summary: no trap generated when firmwareDownload completes Symptom: No SNMP trap is generated when a firmwareDownload completes. Customer Impact: This has been implemented in SilkWorm 12000 systems; however, the solution for non-bladed platforms will be targeted in a future FOS release.
DEFECT000024542	Medium	Summary: No log message is generated when one CP resets the other CP. Symptom: There is no longer any message logged or displayed when one CP resets the other CP. Solution: Our code will move away from the use of printk in a future release and will allow the message to be added back in. Workaround: none Customer Impact: The message was removed in order to reduce the amount of printk during panic dump processing. The trade off here is that we have a better chance of capturing a good panic dump. In a future release, printk is no longer used and the message can be added back in.
DEFECT000024767	Medium	Summary: get urouteconfig _cli: Input port not availabe for routing when setting a static route for inport 0 but the route is set ok Symptom: When configuring a route the user may in a rare instance receive an incorrect error message "Input port not available for routing". Comment: The fix for this defect is currently under test.
DEFECT000024769	Medium	Summary: REG: EVT_TC_154 : When trunk port is disabled on 4.1 proxy switch, API is receiving an EV_STATE_CHANGE event 2 times Symptom: The disable event is being reported twice via the API. The two events being reported are "Trunking port down" followed by "Port Down". If the user did not realize they were disabling a trunking port, then the two status changes could be interpreted as confusing. Comment: The fix for this defect is currently under test.

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000024892	Medium	Summary: No sequence open on the tx queue sw1: FCPH 0. This child defect of 22412 by using Xyratex Symptom: Stress test case in which 4 loops of 120 devices each are simulated using test equipment. These four loops are further connected to all 4 ports of one quad within the ASIC. All four loop simulators then stress the system by simultaneously resetting their loops and causing loop initialization issues. Customer Impact: This is a Stress To Fail test that requires the use of fabric testing simulators.
DEFECT000024975	Medium	Summary: when configdownload succeeded on zoneDB but failed on sec policy, primary fails to propagate zoneDB to fabric Symptom: When performing a configDownload that modifies both the zoning DB and the security DB, an error within the security DB will prevent the zoning DB from being activated in the fabric, but it will not prevent it from being loaded into the flash memory. Workaround: Correct your mistake in the Security section of the configuration file and repeat the configDownload. Do NOT reboot the FCS prior to correcting the configuration file. Customer Impact: This situation will only happen when both zoning and security DB are modified, and an error is injected into the security DB config. The root cause is well understood; however, the complexity of the required modifications to the configDownload code would have introduced significant risk to the program.
DEFECT000024999	Medium	Summary: Need better switch side solution re-estabilish event channels when SilkWorm 12000 failover triggers a cold boot Symptom: Customers will not see a lot of events (e.g login/logout events, config change event, FW events etc.) .Will only see RSCN and Fabroc change events. Workaround: The host lib re-establishes the event channel Customer Impact: This can only happen if the SilkWorm 12000 cold-boots (which is unlikely to happen). There is a workaround available. The customer is unlikely to see this problem.
DEFECT000025216	Medium	Summary: The time stamp for firmware download from Fabric Manager/Web Tools is off by 8 hours compared to time on the switch. Symptom: Users who attempt to upgrade switch firmware from Fabric Manager or Web Tools, will see a time difference of 8 hours Comment: The fix for this defect is currently under test.

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000025259	Medium	Summary: 4.1 switch panic and dump core during switchreboot Symptom: A switch panic was observed during a Fabric Access API test run. Solution: this was fixed when rpcd was changed from chassis service to switch service Comment: The fix for this defect is currently under test.
DEFECT000025318	Medium	Summary: Wrong value in Enterprise field of coldStart Trap from SilkWorm 3900 (FOS v4.0.2c) Symptom: The enterprise field oid of coldStart Trap is 1.3.6.1.6.3.1.1.5. Comment: The fix for this defect is currently under test. Service Request# RQST00000022147
DEFECT000025494	Medium	Summary: Web Tools display of segmented trunk ports Symptom: In the Web Tools display, when a trunk group is segmented, only the trunk master is shown with a blinking light indicating an error. The other links in the trunk continue to be shown with a solid green light, suggesting no error. Solution: Get the segmented reason from the kernal and display to the user. Comment: The fix for this defect is currently under test. Service Request# RQST00000022076

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000025498	Medium	Summary: 2 new entries in this table called fruHistoryOEMPartNum and fruHistoryFactorySerialNum that pull out the OEM specific information that is programmed in manufacturing for them. Symptom: Vendor specific part number of the switch is not accessible thru SNMP. Vendor specific soft serial number can be accessed thru swSsn (SW mib), if the ssn entry is available in configuration database. Otherwise, swSsn gives the WWN of the switch. Solution: Added new mib object fruSupplierId, fruupplierPartNum, fruSupplierSerialNum and fruSupplierRevCode to fruTable in HA mib to pull out the supplier data. The data will be similar to the output of 'fruInfoSet wwn 1'. Workaround: Use CLI command instead of SNMP. Also, The supplier serial number can be accessible thru swSsn and connUnitSn. Customer Impact: There is a workaround. Will be fixed in a future FOS release. Service Request# RQST00000022398
DEFECT000025519	Medium	Summary: Failover during hardware configuration operations may leave the port in an inconsistent state. Symptom: It is possible for a port to remain non-operational if a zoning configuration action is interrupted by a switch failure. Customer Impact: This combination of switch failure during a configuration operation happens rarely and there is a manual recovery available. Fixing this symptom at this time has a high risk of destabilizing the tested code base so the changes will be deferred to a future next release.
DEFECT000025534	Medium	Summary: SwitchCfgTrunk leaves ports disabled if a long distance port is configured on the switch. Symptom: Activating Trunking at the switch level (switchCfgTrunk) when a long-distance port is currently configured causes the error message "No Trunking support of long distance port" to be displayed, which is correct. However, other trunk ports are then left in a disabled state. Workaround: There are 2 ways to avoid this issue 1. using command port portcfgtrunkport to enable the trunk for each port (recommended) 2. disable long distance port before issue switchcfgtrunk Customer Impact: This symptom is a minor annoyance and has an easy workaround. Since the symptom will go away in the next release because trunking on long distance ports will be supported, the effort and risk are not worth the short term benefit of correcting this behavior.

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000025578	Medium	Summary: Trying to commit after creating an alias that's about 128K would fail with -55 (ERR_COMMIT_FAILED) while using a SilkWorm 12000 in a secure fabric as proxy. Symptom: Trying to commit after creating an alias that's about 128K would fail with -55 (ERR_COMMIT_FAILED) Probability: Medium Comment: The fix for this defect is currently under test.
DEFECT000025580	Medium	Summary: Able to reset version time stamp when logged in as "user" Symptom: When logged in as 'user' form an API Application, resetting version time stamp will succeed. This should fail and an error code should be returned. -224 should be returned if it is attempted. Comment: The fix for this defect is currently under test.
DEFECT000025613	Medium	Summary: Trying to Activate a ZoneSet that's about 128K, the AddObjectAttribute() call returns -56 after around one minute. Symptom: Trying to Activate a ZoneSet that's about 128K, the AddObjectAttribute() call returns -56 after around one minute. Probability: Medium Comment: The fix for this defect is currently under test.
DEFECT000025679	Medium	Summary: Right after activated SCC policy, retrieve sec policy through API will fail Symptom: Attempting to retrieve the security policy via the Fabric Access API immediately after activating a new SCC policy will cause the retrieval command to fail. Workaround: Wait several seconds after activating the new security policy before issuing a command to retrieve the security policy. Customer Impact: A simple workaround exists, a fix is targeted for a future Fabric OS release.
DEFECT000025854	Medium	Summary: Security Admin returns Error -55 after removing/adding members and Activate FCS Policy Symptom: In a large fabric containing over 26 switches. When using the Fabric Access API to remove multiple FCS members without first performing a save operation, an error is returned. Comment: The fix for this defect is currently under test.

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000025944	Medium	Summary: setting fcpProbeDisable will set fanFrameDisable Symptom: When setting fcpProbeDisable to 1 through configure command fcAL.fanFrameDisable will automatically be set to 1. does not happen in v3.1 Customer Impact: Customer impact is low and workaround is simple, it will be fixed in a future release.
DEFECT000025989	Medium	Summary: Web Tools shows incorrect "Current" value on the smart sfp. Symptom: The output of sfpshow from the CLI and from Web Tools is different. Web Tools is displaying an incorrect value for the current value on smart SFPs. Solution: Changes need to be made to the backend to receive the right value. Workaround: Use the command "sfpshow" to see the correct value of current. This is a Web Tools display issue. This will be targeted for delivery in a future Fabric OS release. Customer Impact: This is a Web display issue. This will be targeted for delivery in a future Fabric OS release.
DEFECT000033228	Medium	Summary: 153298 Cfgdisable Command In 24 Switch Fabric Causes ED12000B To Become Unresponsive. Service Request# RQST00000024244
DEFECT000033230	Medium	Summary: 153286 Web Tools Does Not Show Duplicate Entries Contained In Zoning On Switch. Symptom: Web Tools Does Not Show Duplicate Entries Contained In Zoning On Switch. Workaround: Deleting one member out of the zone list from the telnet session may resolve the issue. Probability: Medium Comment: The fix for this defect is currently under test. Service Request# RQST00000024119

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000033899	Medium	Summary: ConfigurationDownload with reboot reboots SilkWorm 12000 CP rather than SilkWorm 12000 switch. Customer Impact: This problem, along with several others, are being addressed in a future Fabric OS release with an enhanced Configuration Management Facility.
DEFECT000033913	Medium	Summary: 156146 Blades Posting Missing From ErrorLog/Eventlog Messsages. Customer Impact: The fix for this problem will generate a large volume of info messages in the error log. These messages will also fill up the burnin log messages on the CP boards which in turn will defeat its intended purpose of recording real errors from the CP. A logging scheme that will satisfy this Defect, and not break the existing burnin requirements for logging will be consiidered for a future release. Service Request# RQST00000024565
DEFECT000034257	Medium	Summary: Switch gets into a state where all SNMP queries to ConnUnitEvent table timeout Symptom: When a port bounce (continuous disable/enable of a switch port with a delay) session is running and ITSANM is used to query the connUnitEvent table, all SNMP queries to the switch timeout. If the browser based switch management application is loaded again, it resets the timeout condition and SNMP queries work until we try to read the connUnitEvent table again. Customer Impact: This defect could happen under heavy stress condition with a very large number of error log entries. It is being deferred to a future Fabric OS release. Service Request# RQST00000023547
DEFECT000034623	Medium	Summary: Missing events (including firmwareUpgrade event) when firmwaredownload with silkworm proxy, SilkWorm 12000 target Symptom: After firmware download to a SilkWorm 12000 switch, an API application does not receive download completion event. Comment: The fix for this defect is currently under test.

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000035013	Medium	Summary: [preexisting usability] On removing Web Tools license, and later adding it back, an incorrect message is displayed. Symptom: The message displayed when Web Tools license is removed, and later added, is inaccurate. Solution: 1. When web license is absent or expired, all applet windows will be covered with gray panel with error message. User has no interaction, but close windows. 2. The behavior applies to SwitchView, ZoneAdmin, SwithcAdmin, FabricWatch, HaAdmin, NameServer. 3. When switch adds license back, and original session has not been closed. Web Tools will not suppose to behave normally as license present. It will keep showing license absent on the openned windows. User has to relaunch webtools. 4. Corner cases not covered: After license absent, user cannot expect that webtools behave normally. Some components may encount different exceptions after license missing. There may have exception dialog popped up beside the item1 described screen. User has to ignore those dialog by closing them and close all Web Tools windows. Comment: The fix for this defect is currently under test.
DEFECT000035168	Medium	Summary: syslogd does not send out the right number of errors to Sun station. Eg. Error#1527 show up (6) on the swith but it only appear once in Sun station. Customer Impact: The extra blank message and the extra info message showed up as are side effects of the current design of errlog and linux klogd. We are redesigning our logging mechanism in a future release and this problem will be addressed by the new design.
DEFECT000035382	Medium	Summary: Setting PortSpeed to PORT_SPEED_AUTO(1) for a v4.1.1 switch port results -3(ERR_INVALID_PARAMETER) if the current PortSpeed value is PORT_SPEED_AUTO(1), PORT_SPEED_AN_1G(4), or PORT_SPEED_AN_2G(5) Symptom: When API application tries to set port speed, an invalid error code (-3) is returned. It should always return SUCCESS. Workaround: The workaround is that the host library will check the current speed setting before calling the FOS. Customer Impact: There is a workaround available. This will be fixed in a future FOS release.

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000035626	Medium	Summary: secmodeenable only report one error from one switch even though there are multiple switches in the fabric have corrupted PKI objects. Symptom: When the secmodeenable fails due to the absence of certificates on multiple switches in the fabric, an error is reported for only one of the switches missing a certificate. Customer Impact: This behavior is a limitation of the current implementation. An enhancement to report all switches lacking certificates is planned for a future release. Once secmodeenable reports that a switch does not contain a certificate, the switch administrator should check all other switches in the fabric to confirm the presence of switch certificates.
DEFECT000035962	Medium	Summary: SilkWorm 3250 and SilkWorm 3850 FW: fanshow show OK even if the speed is below the minimum Symptom: If you set the fan threshold below the current fan value, fanshow indicates that the fan is still OK. Workaround: fabricwatch will still generate an error when the rotation is detected below the threshold. Customer Impact: Despite the fact that the two commands show conflicting information, the user is still alerted to the fact that the change in fan threshold did create a detection of a fan fault condition. If the user does not change the fan sensor threshold, then this problem will not be encountered. Even if it is encountered, it does not cause an operational problem in the system - it just creates some confusion. Probability: Low
DEFECT000035970	Medium	Summary: [SilkWorm 3016] Attempts to change internal ports to long distance yields confusing error message. Customer Impact: An internal port will never be configured for long-distance except by someone testing the switch. There impact of a confusing error message for an extremely unlikely event in the field is very small. Probability: Low

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000036082	Medium	Summary: Zoning db propagation from a switch to the rest of the fabric takes place so slowly that it messes up with API operations. Symptom: Zone DB propagation may seem slow. Workaround: Brocade API will wait for adequate amount of time to let the Zone DB propagation complete. Probability: Medium Comment: The fix for this defect is currently under test.
DEFECT000036129	Medium	Summary: [SilkWorm12000] "ERROR: invalid slot number: 7" displayed on both CP during boot up. Symptom: Message "ERROR: invalid slot number: 7" displayed on both CP during reboot. Customer Impact: This defect only occured on one SilkWorm 12000. It was not seen in any other SilkWorm 12000s. The warning messages occured when any diagnostic command was issued on that particular switch. The switch behaves correctly and POST passed correctly. There was no side effect other than a lot of annoying error messages. The investigation is still going on to root cause the problem. Probability: Low
DEFECT000036249	Medium	Summary: GATIN returns an accept for a non-existent port wwn Symptom: GATIN will return an accept for a non-existent port in the fabric Comment: The fix for this defect is currently under test.
DEFECT000036328	Medium	Summary: IP address is not recorded correctly in error message of "Security violation: Login failure attempt via TELNET/SSH/RSH. IP Addr: 192.168.44.247" for subsequences login failure from multiple different IP addresses. Symptom: A single security violation error entry is logged when multiple similar violations originating from different IP addresses are detected. Workaround: No workaround for this defect. Customer Impact: This behavior will be changed in a future release to report the IP address for every security violation detected. The current behavior is to omit log entries for similar violations that arrive within a brief timeframe in order to preserve error log storage for other types of events.

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000036446	Medium	Summary: Case Number: SD809252 / State Farm / Brocade 12000 wwn card issue Service Request# RQST00000025999
DEFECT000036452	Medium	Summary: 163542 HAFailover Of CPs While Out of Sync Causes CPs To Reboot, Switch Posting. Symptom: The hafailover command is allowed even when the CPs are not in sync. Customer Impact: The original design was to give the end user the option of forcing an hafailover even when the CP were out-of-sync. Since it is an explicit command issued by the user, it does not affect the operation of the switch in normal unattended operation. Service Request# RQST00000026186
DEFECT000036526	Medium	Summary: EM and FW status are not consistent for fanShow, tempShow, sensorShow, psShow Symptom: Run the CLI fanShow, tempShow, sensorShow and psShow. Status not same as FabricWatch status
DEFECT000036575	Medium	Summary: 3900 panic out of memory MQWrite Symptom: SUN Qual lab is experiencing panics and reboots of a 3900 running 4.1.1a firmware. errdump shows: Error 95 -------- 0x224 (fabos): Nov 21 19:02:48 Switch: 0, Info PD_TRACE-GENERIC, 4, pdcheck: info: found new pd in MTD: mtd_ts=1069441026 WDTD Fri Nov 21 18:57:06 2003, cf_ts=0 Error 94 -------- 0x25c (fabos): Nov 21 18:56:11 Switch: 0, Critical kSWD-kSWD_GENERIC_ERR_CRITICAL, 1, kSWD: Detected unexpected termination of: "[0]nsd:0'RfP=604,RgP=604,DfP=0,died=1,rt=217363215,dt=38330,to=50000,aJc=217311715,aJp=217295100,abiJc=-430098500,abi As well as watchdog reboots. Supportshow, core files and pdshow are all attached to the service request and available on NFS05/public/mwaldman/25256 Comment: The fix for this defect is currently under test. Service Request# RQST00000026256

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000036677	Medium	Summary: [SilkWorm 3016] The cu port "state" shows No_Light under Switchshow command Customer Impact: Chaning the status string "no light" to something more like "no signal" for copper ports is not required by the customer, and may destabilize automated test scripts. The defect should be deferred until an agreed upon solution can be implemented, or the choice could be made to leave things as is. Probability: High
DEFECT000037067	Medium	Summary: After seeing prompt comes back, it still takes about 30 seconds to be able to execute next zoning operation. "cfgDisable failed: Aca Was Rejected: Remote Switch Busy, Retry in a few seconds" is not user friendly. Symptom: "cfgDisable failed: Aca Was Rejected: Remote Switch Busy, retry in a few seconds" message shows up. Customer Impact: It is normal for this message to show up. However, more meaningfull message will be crafted for a future release. Probability: Medium
DEFECT000037089	Medium	Summary: Temporary internet files may allow user to bypass Web Tools login to perform administrative functions on a switch. Symptom: If an administrator leaves his/her terminal unlocked, someone else can use the temporary internet files on the system to bypass Web Tools login and perform administrative functions on a switch. Solution: No known solution yet. Workaround: Do not leave the terminal unlocked or purge temporary internet files before leaving the terminal unlocked. Customer Impact: This situation happens only if an admin leaves his/her terminal unlocked and the user looks into the temporary internet files. There is a 2 hour window in which this can happen. The defect is under investigation and a fix is targeted for a future release.
DEFECT000037135	Medium	Summary: Error SEC-RSENDFAIL, 2, RCS process fails: Bad RCA" message during zoning merge test Symptom: The error "SEC-RSENDFAIL, 2, RCS process fails: Bad RCA" message is reported during a zone merge test. The fabric still forms correctly. Comment: The fix for this defect is currently under test.

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000037136	Medium	Summary: Ficon -- Incorrect RNID "NOT CURRENT" status after cable swap with FCP HBA Symptom: Incorrect RNID "NOT CURRENT" status after swapping FICON and FCP ports Workaround: If it is necessary to swap FCP and FICON parts, then a portdisable followed by a portenable can be done to correct the problem. The RNIDs will then be reported as VALID. Customer Impact: This defect involves swapping of FICON with FCP ports on the same switch. Since this is not common practice for customers, it's highly unlikely that this defect will be seen in the field. Even so, a fix will be provided as part of a future release. Probability: Low
DEFECT000037162	Medium	Summary: Ethernet port LEDs for the SilkWorm3250/3850 switch are not shown in the Web Tools Switch View Symptom: In the SilkWorm3250/3850 switch view in Web Tools, no LEDs are shown with the Ethernet Port. Comment: The fix for this defect is currently under test.
DEFECT000037346	Medium	Summary: A browser refresh may cause the selected switch to be different from the switch displayed. Symptom: Whenever a user refreshes the SwitchExplorer in a browser, the current selection in the fabric tree is reset and the default selection might be different from the current switch displayed in SwitchView. Solution: The real solution would be to trigger the right hand side frames from the left hand side so that they are always consistent. This may impact the time taken for initial download. Workaround: Click on a node in the SwitchExplorer after the browser refresh to force SwitchView to also display the same node. This would avoid any visual discrepancies between the Fabric Tree and SwitchView. Customer Impact: The chances are that the users running into this case is rare. It is being caused because the browser is refreshing each individual frames rather than the initial page that launched the multiple frames. This defect is under investigation for a fix in a future release.

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000037370	Medium	Summary: SEC: Fail to ping or telnet to SilkWorm 12000 from management server Symptom: SEC: Fail to ping or telnet to SilkWorm 12000 from management server Customer Impact: The problem here is that the gateway address for the CP is being cleared to 0 when the switch IP address is being set. The workaround is to have the user always set the IP and gateway address for the CP (via the ipAddrSet command) after making any change to the switch IP address. Probability: Medium
DEFECT000037383	Medium	Summary: SCALABILITY: secversionreset fail many times with message "Fail to reset stamp on all switches." Symptom: The switch enters a state in which the secversionreset command fails with the message "Fail to reset stamp on all switches." Workaround: None. Customer Impact: The symptom was encountered only once during a time when the test fabric (a 1280 port fabric - exceeds maximum 750 port claimed support) may have been in an unstable state. The conditions required to create the defect are not known.
DEFECT000037405	Medium	Summary: Upper 15 ports EE monitors change into incorrect values after PID change Symptom: If customer has an EE monitor defined that incorporates the last 15 ports and changes the PID format to "2", the resulting EE monitor will change to an out of range port number. E.g. 7f changes to 8f. Customer Impact: There is an easy workaround for this problem. Customers are not expected to run into this situation and thus the impact is low combined with the workaround, this will be fixed in a future release
DEFECT000037485	Medium	Summary: SCALABILITY: zone contents between memory and flash end up different. switch will never join in the sec fabric after fastboot. Symptom: switch will never join the security fabric after fastboot. Probability: Medium Comment: The fix for this defect is currently under test.

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000037544	Medium	Summary: CP error "SIOCADDRT: No such device" seen on two separate SilkWorm 24000 CP blades. Workaround: This problem can be mitigated by the user avoiding setting the switch IP address from multiple telnet or application sources (telnet windows, webtools, fabric manager, etc.). However, if the user does see the SIOCADDRT error message, the problem can be resolved by properly setting the IP address via the ipAddrSet command. Customer Impact: This problem can be mitigated by the user avoiding setting the switch IP address from multiple telnet or application sources (telnet windows, webtools, fabric manager, etc.). However, if the user does see the SIOCADDRT error message, the problem can be resolved by properly setting the IP address via the ipAddrSet command. Probability: Low
DEFECT000037576	Medium	Summary: API Performance problem in Large Fabric. GetAllObjects from one particular SilkWorm 24000 in the Large Fabric does not return even after 90 minutes. Symptom: API Applications that use GetAllObjects, in a large Fabric with a large number of devices, may observe that this function takes a long time to complete. Customer Impact: Recently reported. Still under investigation. Impact is to API applications only in a large fabric with large number of devices.
DEFECT000037665	Medium	Summary: FSPF side: SCC policy is not enforced at E-port bringup (cause: Gateway support)
DEFECT000037699	Medium	Summary: Firmwaredownload between pre-release builds failed on one of the core chassis (SilkWorm 12000) when there were 21 switches doing firmwaredownload at the same time in 4x30 fabric Symptom: Firmwaredownload failed on one of the core chassis (SilkWorm 12000) when there were 21 switches doing firmwaredownload at the same time in 4x30 fabric Workaround: none Comment: The fix for this defect is currently under test.
DEFECT000037752	Medium	Summary: switchShutDown and switchStart command return to command prompt right away. If one command is executed without the other is totally finish, the CP panic with "Oops: kernel access of bad area, sig: 11".

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000037789	Medium	Summary: CP loose its' boot environment variables during run-in. Symptom: Board won't boot all the way if it looses its boot env. Variables. Console output would look like this: The system is coming up, please wait... Unable to read configuration data WARNING: Failed to set EMAC hardware addresses! 1) Start system. 2) Recover password. 3) Enter command shell. Option? 0 Probability: Low Comment: The fix for this defect is currently under test.
DEFECT000037812	Medium	Summary: Web Tools does not adequately represent traffic running on ports (blinking rate too slow) Symptom: Web Tools LEDs blink slowly for ports with traffic, and may not match the hardware blink rates. May be confusing to customer.
DEFECT000037843	Medium	Summary: For debugging usage, PortID in the "portlogdump" should refer to the Area number of the "switchshow" when "Extended Edge PID" is set Symptom: run portlogdump, the portid is logical linear port number not area number; Customer Impact: Display problem will be fixed in a future release.
DEFECT000037845	Medium	Summary: "Incompatible flow control" warning messages should refer to the "Area number" of the "switchshow" when "Extended Edge PID" (format 2) is set Symptom: Configure 2 switch with different PID format to see the segmentation error message is linear port rather than slot/port or area. Solution: When commands referred to port, we should use slot/port notation; not the logical linear number. Workaround: In switch pid format 2 (Extended Edge PID format), this error message is show as logical linear port, which is different from area number of switchshow. Adds 16 to logical linear port number to match the switchshow area number. Comment: The fix for this defect is currently under test.

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000038022	Medium	Summary: Remove misleading PCI debug message generated during slot scan Symptom: Error message "db_scan_slot: failed to read header type func 0 dev 14 bus 2, ret= -22" observed when powering slot off then back on.
DEFECT000038352	Medium	Summary: hafailover on SilkWorm 24k caused port blade vacant , but the status LED on the port blade shows it is in a good state Symptom: reset microswitch or soft reboot CP caused 1 port blade out of FOS controlled Probability: Low Comment: The fix for this defect is currently under test.
DEFECT000038928	Medium	Summary: McData interop mode -- JDSU SFP doesn't work with SilkWorm 3016. Symptom: In Switchshow, the port will come up as InSync and ISL cannot be established Workaround: Follow the steps below: 1) If interop mode is not already on, turn on interop mode and fastboot the switch. 2) Plug in the JDSU SFP into the SilkWorm 3016 then disable the port usiing 'portdisable <portnumber>'. 3) Before connecting the cable type 'portCfgGport <port number> 1'. 4) Reenable the disabled port using 'portenable <portnumber>', and wait for about 3-5 minute for the Mcdata EFCM fabric Manager to propagate the Name server data and the zone set database. 5) Issue switchshow, Fabricshow and cfgshow on the Brocade side to verify the fabric is indeed stable.
DEFECT000039052	Medium	Summary: On PID format conversion max cfgsize limit is not enforced Comment: The fix for this defect is currently under test.
DEFECT000039318	Medium	Summary: In a 4x16 fabric with zone db size 35K,the Zone administration window opened from FM does not show all the last two zone members properly. Customer Impact: It is very hard to reproduce. When the problem happened, the infomation was insufficient to root cause the problem. A build with extra instrumentation has been run without hitting the problem again.
DEFECT000039580	Medium	Summary: EMC S/W OPT 176243 :"error creating new license file" message in CLI when performing configdownload on SilkWorm 24000 Comment: The fix for this defect is currently under test. Service Request# RQST00000028011

Open Defects		
Defect ID	**Severity**	**Description**
DEFECT000039604	Medium	Summary: Web Tools reports zoning cfg 'successfully committed' to fabric, but transaction did not actually complete -RE: OPT 154720 (previous defect 33259) Symptom: Web Tools reports zoning cfg 'successfully committed' to fabric, but transaction did not actually complete
DEFECT000040441	Medium	Summary: Zoning transaction aborted logged at Error level causes Call Home. Customer Symptom: End user uses API to intentionally abort zone transaction and saw following in errlog: Error ZONE-TRANS_ABORT, 2, Zone transaction aborted – Solution: Change log level from Error to Info when abort zone transaction. SR#. RQST00000028262
DEFECT000038363	Low	Summary: Web Tools Temperature still ok when above 72C Symptom: Web Tools shows wrong thermal status Customer Impact: This is a duplicate of a defect discovered on other platforms that is expected to be fixed in 4.3.0. Probability: Low