


Doc. reference : <b>DT-ENG-040-EN</b>	<b>FAQ</b>	
<b>Product :</b> Brocade 8Gb 20-port SAN Switch Module	Issued : <b>April 4<sup>th</sup>, 2011</b>	
<b>Object :</b> Brocade 8Gb 20-port SAN Switch Module “Warning: switch has old FPGA Rev 0x096”		
<b>Abstract :</b> This note explains the workaround to solve this problem.		

**Problem:**

The following warning message is logged when updating the Brocade 8Gb 20-port SAN Switch Module (FCSM) to firmware v6.3.1b

WARNING: Switch has older FPGA rev 0x9x: pls upgrade to newer rev 0x97 via the fpga\_update command.

(FPGA= Field Programmable Gate Array)

In order to alleviate the potential for a high number of “enc\_out” errors and improve link stability, Brocade 8Gb 20-port SAN Switch Module need to update the firmware to Fabric OS v6.3.1b or later.

Encoding errors that occur outside a frame boundary are reported as “enc\_out” errors. At the same time, the user should upgrade the FPGA code on the FCSM to version 97.

Warning: Updating the FPGA code disrupts I/O data traffic and reboots the FCSM

**Affected configurations:**

The system may be the following option:

- Brocade 8Gb 20-port SAN Switch Module (MI= CFSNSB0-208G)

The update to version 6.3.1b firmware for the Brocade 8Gb 20-port SAN Switch Module is affected.

**Workaround:**

No workaround is available for this problem.

In order to prevent potential link instability issues, the fpga\_update command must be performed during a maintenance window when data I/O disruption is acceptable.

**Corrective action:**

Use the update command from the Command Line Interface (CLI)

1. Log in with admin user CLI (admin/password)
2. Check the FPGA version by executing the following  
Brocade 8Gb:admin>**fpga\_update**

If the FPGA is already up to date, the `fpga_update` command returns a message confirming the latest FPGA

If the FPGA is not up to date, this command asks the user to confirm the upgrade before proceeding. If the user answer “no”, the command exits without disruption or change of the FPGA code. Therefore, it is safe to run this command to verify the version of FPGA code.

3. Update the firmware to Fabric OS v6.3.1b or later
4. If necessary, update the FPGA image of the FCSM to version 97  
**Proceeding with the update is disruptive.** Upon completion of the `fpga_update` script the system resets automatically.  
Enter the following command:  
Brocade 8Gb:admin>**fpga\_update**

The following dialog is displayed:

The current FPGA version is 9x.

You should update the FPGA to the new version.

Warning: FPGA update will disrupt traffic flowing through this switch.

It will also cause the switch to restart.

Do you want to update the FPGA to version 97? [N] **Y**.

Please avoid powering off the switch during programming.

When programming completes, the switch will reset itself.