

# 2 GB Brocade Enterprise & Entry SAN Switch Modules

Release Notes

NOVASCALÉ BLADE



REFERENCE  
86 A1 26ER 00



# NOVASCAL BLADE

## 2 GB Brocade Enterprise & Entry SAN Switch Modules Release Notes

### **Hardware**

March 2005

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FRANCE

REFERENCE  
86 A1 26ER 00

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# NovaScale Blade 2 GB Brocade Enterprise SAN Switch Module

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## Release Notes

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## For Current Information

For the most recent information for this switch module, contact your Bull support representative.

## Switch Licensing

The NovaScale Blade 2GB Brocade\* Entry SAN Switch Module contains a license for a Two Domain Fabric. If the number of domains is increased above the two-domain limit, Advanced Web Tools allows a 45-day period in which you can monitor the switch. During this 45-day period, Advanced Web Tools displays warning messages that your fabric size exceeds the supported switch configuration limit.

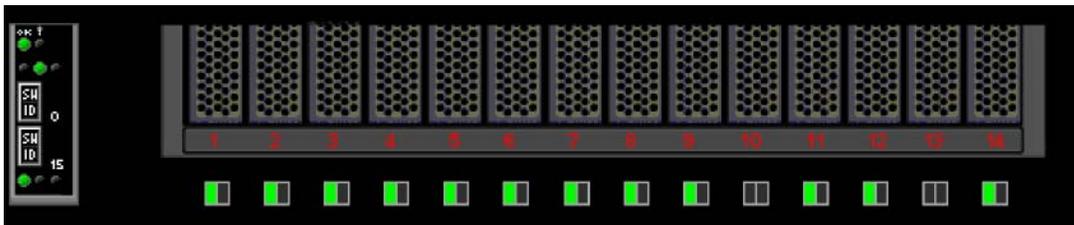
After the 45-day grace period, you can no longer launch Advanced Web Tools from the switch if it still exceeds the two-domain limit.

## Changes to Diagnostics

The commands **spinsilk** and **spinjitter** must be run with the additional argument `-lb_mode 2` on the switch module 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.

## Changes to Advanced Web Tools

Advanced Web Tools uses the following illustration to represent the NovaScale Blade 2GB Brocade SAN Switch Module.



## Physical Port Icons and LEDs

Ports 1 through 14 and the associated status indicators represent internal ports on the NovaScale Blade Chassis unit that connect to the 14 blade server bays.

The switch icon for the NovaScale Blade 2GB Brocade SAN Switch Module consists of:

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

See the *Brocade Enterprise/Entry SAN Switch Module Installation Guide* on the CD-ROM *NovaScale Blade 2GB Brocade Fibre Channel Switch Module Resource CD* for more information about LED operation.

The **Switch View** for the NovaScale Blade 2GB Brocade SAN Switch Module does not have a **Fan** button or a **Power** button, because there is no fan or power supply associated with the switch.

## Port Info Tab

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

The **SFP** subtab on the **Port Info** tab displays “NO SFP INFO AVAILABLE” for the 14 internal ports of the switch.

The **Loop** subtab on the **Port Info** tab displays “NO LOOP INFO AVAILABLE” for the 14 internal ports of the switch.

## Changes to Fabric Watch

Note the following changes regarding the Fabric Watch feature on the NovaScale Blade 2GB Brocade SAN Switch Module:

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

See the *Brocade Fabric Watch User's Guide* version 4.2.0 or later on the CD-ROM *NovaScale Blade 2GB Brocade Fibre Channel Switch Module Resource CD* for more detailed information.

## Changes to Extended Fabrics

The two external ports of the NovaScale Blade 2GB Brocade SAN Switch Module 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 NovaScale Blade chassis and, in the most extreme cases, can prevent these ports from coming up.

The NovaScale Blade 2GB Brocade SAN Switch Module does not support long-distance mode on internal ports (ports 1 through 14). If you try to enable long-distance mode on ports 1 through 14, the command-line interface and Advanced Web Tools return an error message.

Before you configure external ports for long distance, consider both the port speed (1 or 2 Gbps) and distance setting (L0.5, L1, L2, and LD). 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 Gbps, note the following restrictions:

- 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 automatically detects the actual cable lengths and, depending on their distances, might disable internal 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, see the *Brocade Distributed Fabrics User's Guide* version 4.1.0 or later on the CD-ROM *NovaScale Blade 2GB Brocade Fibre Channel Switch Module Resource CD*.

### Changes to ISL Trunking

If your NovaScale Blade 2GB Brocade SAN Switch Module is licensed for the optional Brocade ISL (Inter-Switch Link) Trunking feature, the two external ports can be used as a trunking group. This means ports 0 and 15 can join a trunking group on another Brocade switch that supports the ISL Trunking feature. The NovaScale Blade 2GB Brocade SAN Switch Module does not support trunking mode on internal ports (ports 1 through 14). If you try to enable trunking mode on ports 1 through 14, the command-line interface and Advanced Web Tools return an error message. See the *Brocade Fabric OS Features Guide* version 4.2.0 or later on the CD-ROM *NovaScale Blade 2GB Brocade Fibre Channel Switch Module Resource CD* for more information.

### Changes to Performance Monitoring

All performance monitor graphs (and the setup of graphs) display port names in addition to the port number for the NovaScale Blade 2GB Brocade SAN Switch Module.

See the *Brocade Fabric OS Features Guide* version 4.2.0 or later on the CD-ROM *NovaScale Blade 2GB Brocade Fibre Channel Switch Module Resource CD* for more information.

### Changes to Secure Fabric OS

**Note:** When using 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.

The NovaScale Blade 2GB Brocade SAN Switch Module has a different default user name than "admin", which exists on all other Brocade 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 NovaScale Blade 2GB Brocade SAN Switch Module to a secure fabric made up of other Brocade switches.

To enable Secure FOS on the NovaScale Blade 2GB Brocade SAN Switch Module, 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 NovaScale Blade 2GB Brocade SAN Switch Module, the default admin-level ID is "USERID"; therefore, 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.

See the *Brocade Secure Fabric OS User's Guide*, v4.2.0 or higher and the *Brocade Secure Fabric OS QuickStart Guide* version 4.2.0 or later on the CD-ROM *NovaScale Blade 2GB Brocade Fibre Channel Switch Module Resource CD* for more information.

The `userrename` command renames the user ID.

Userrename command availability: admin

The following operands are required:

<code>old_userid</code>	The current user ID.
<code>new_userid</code>	The new user ID.

**Note:** These operand values are case sensitive.

Example: `userrename old_userid new_userid`

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

```
Brocadesm:admin> userRename USERID admin
```

### **Changes to Fabric Manager**

The Brocade SAN Switch Module will be supported by Fabric Manager version 4.1.1.

See the *Brocade Fabric Manager User's Guide* version 4.1.1 or later on the CD-ROM *NovaScale Blade 2 GB Brocade Fibre Channel Switch Module Resource CD* for more information.



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<b>Reference N° :</b>	86 A1 26ER 00
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