mSFP, SFP, SFP+, and XFP Optical Transceiver

Replacement Procedure
Before you begin

NOTE
The 8-Gbps-capable mSFPs and SFP+s auto-negotiate at 2, 4, and 8 Gbps. The 4-Gbps SFPs auto-negotiate at 1, 2, and 4 Gbps. The mSFPs are compatible only with the FC8-64 high density port blade.

NOTE
The XFP transceivers are used only with the FC10-6 port card. The 10GbE XFPs should not be used in any 1GbE port.

Switches and blades that employ transceivers typically have them arranged in two rows, back to back. On most switches and the DCX-4S Backbone, that means that the bottom row of transceivers is upside down in relation to the top row.

Time Required
The replacement procedure for one transceiver takes less than five minutes.

Items Required
- Replacement mSFP, SFP, SFP+, or XFP
- Optical transceiver extraction tool (for SFP, SFP+, and XFP transceivers)

Removing and replacing an SFP, SFP+, or XFP optical transceiver

Most Brocade switches and backbones come with a transceiver extraction tool (Figure 1) and holster. The extraction tool is designed to remove transceivers from switches and blades where the space is limited.

Removing an SFP, SFP+, or XFP transceiver
To remove an SFP, SFP+, or XFP (FC6-10 blade only) transceiver, complete the following steps.

1. Remove any cables that are inserted into the transceiver. Use the extraction tool to open the cable latching mechanism.
2. Pull the bail (wire handle) away from its pivot point and out, sliding the transceiver out of the switch or blade (Figure 2).
Replacing an SFP, SFP+, or XFP transceiver

1. Position the optical transceiver so that the key is oriented correctly to the port. Insert the transceiver into the port until it is firmly seated and the latching mechanism clicks.

   Transceivers are keyed so that they can only be inserted with the correct orientation. If a transceiver does not slide in easily, ensure that it is correctly oriented.

2. Position a cable so that the key (the ridge on one side of the cable connector) is aligned with the slot in the transceiver. Insert the cable into the transceiver until the latching mechanism clicks.

   Cables are keyed so that they can be inserted in only one way. If a cable does not slide in easily, ensure that it is correctly oriented.

Removing and replacing an mSFP optical transceiver

To replace an mSFP transceiver, complete the following steps. Note that it is recommended that the optical cable should be either removed from or inserted into the mSFP while the transceiver is out of the switch or blade.

NOTE
mSFP optical transceivers should not be inserted into ports intended for SFP or SFP+ transceivers. They will be faulted upon transceiver power-up for Fabric OS 6.4.0 and later.

Removing an mSFP transceiver

NOTE
The mSFP transceivers are used only with the FC8-64 port blade.
FIGURE 3  Optical mSFP transceiver

1. Pull tab
2. mSFP transceiver

1. Grasp the pull tab firmly and pull the unit out of the port (Figure 3).
2. Remove the cable from the transceiver.

Replacing an mSFP transceiver

1. Insert the cable into the new transceiver until the latching mechanism clicks.
2. Position the optical transceiver so that the key is oriented correctly to the port. Insert the transceiver into the port until it is firmly seated and the latching mechanism clicks.

Transceivers are keyed so that they can only be inserted with the correct orientation. If a transceiver does not slide in easily, ensure that it is correctly oriented.