

**Cisco SFS 7008 InfiniBand and  
Cisco 3012 Multifabric Server Switches  
Optional Shelf Kit, Contents and Installation Guide  
(Topspin Optional Shelf Kit, Contents and Installation Guide)**

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Document Version: 2.2.0 Update 1

Part Number: OL-7727-01

Product ID: 140267

February, 2005

Printed in the United States of America.

# Topspin Shelf-Kit Contents

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The following contents are included in this package:

\_\_\_\_\_ *Topspin Shelf Kit for 270 and Topspin 360 Contents and Installation Guide*(1)

\_\_\_\_\_ **Shelf Rail for the Topspin 270 (2)**

\_\_\_\_\_ **Shelf Rail for the Topspin 360 (2)**

\_\_\_\_\_ **Shelf (1)**

\_\_\_\_\_ **Flat Countersink Screws (14)**

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<http://www.topspin.com/support/>



# Rack the Topspin 270 or Topspin 360 with the Optional Topspin Shelf

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The Topspin 270 or Topspin 360 can be installed using your own rack shelf. Refer to the *Topspin 360 Hardware Guide* or the *Topspin 270 Hardware Guide* for instructions on racking the server switch without the optional Topspin shelf.

This document describes the installation of the Topspin 270 or Topspin 360 server switches if you have purchased the optional shelf kit.

## Requirements

In addition to the accessories provided with the server switch, you need:

- #2 phillips screwdriver
- Rack with the appropriate amount of available space:
  - 5 Us for the Topspin 360
  - 6 Us for the Topspin 270
- Three people are recommended to lift the server switch into the rack; however, the procedure can be performed by two people.

**Note:** The Topspin 270 chassis weighs up to 106 pounds (fully loaded).

## Prepare the Chassis

1. Determine the end of the Server Switch to position at the front of the rack and remove the set of handles at the opposite end of the Server Switch.
  - a. If you are going to align the port-side of the switch with the front of the rack, remove the handles from the front (bezel side) of the switch.
  - b. If you are going to align the bezel side of the switch toward the front of the rack, remove the handles from the port-side of the switch.



**Figure 2-1:** Remove Front or Rear Handles From Chassis, Depending on Alignment in Rack

# Install the Shelf Kit

2. Install one of the long, thin rails to each side of the chassis.
  - a. There are a few different rows of screw holes on the side of the Topspin 270. Use the row of screw holes that are third from the top.
  - b. The lip of the rail should be facing up. The screws should be along the bottom.
  - c. Use three screws on each side to attach the rails.



**Figure 2-2:** Attach One Rail to the Third Row of Screw Holes on Both Sides of the Chassis

3. Separate the sliding piece from the main shelf unit.  
Note the way that the pieces fit together. The flanges face outward.  
The right bracket is engraved with an EXR, and the left bracket is engraved with an EXL.



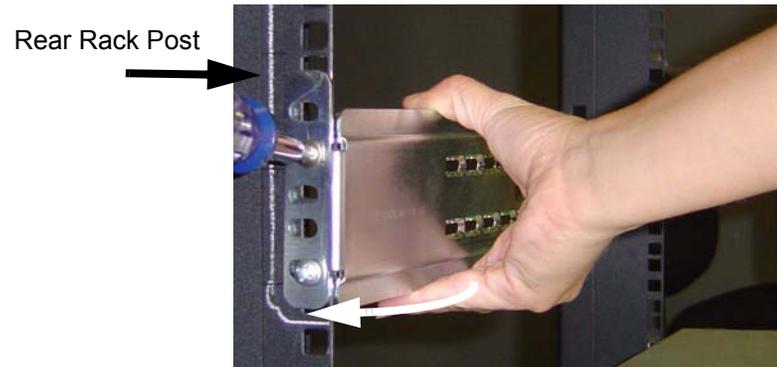
**Figure 2-3:** Separate the Sliding Bracket From Both Sides of the Shelf Unit

4. Attach the wide bracket pieces to the rear rack posts (opposite from the side with which you want to align the switch).

The right bracket is engraved with an EXR, and the left bracket is engraved with an EXL.

- a. Set one of the wide bracket pieces against the inside of the rack. The flange of the bracket faces outward, and wraps around to rest against the outside of the rear rack post.
- b. Align the holes of the bracket piece with the holes of the rack post. This varies slightly depending on your rack; however, in most cases, the bottom of the bracket should be aligned with the 1U hash mark.

The switch and shelf will take up 5Us for the Topspin 360 or 6Us for the Topspin 270.



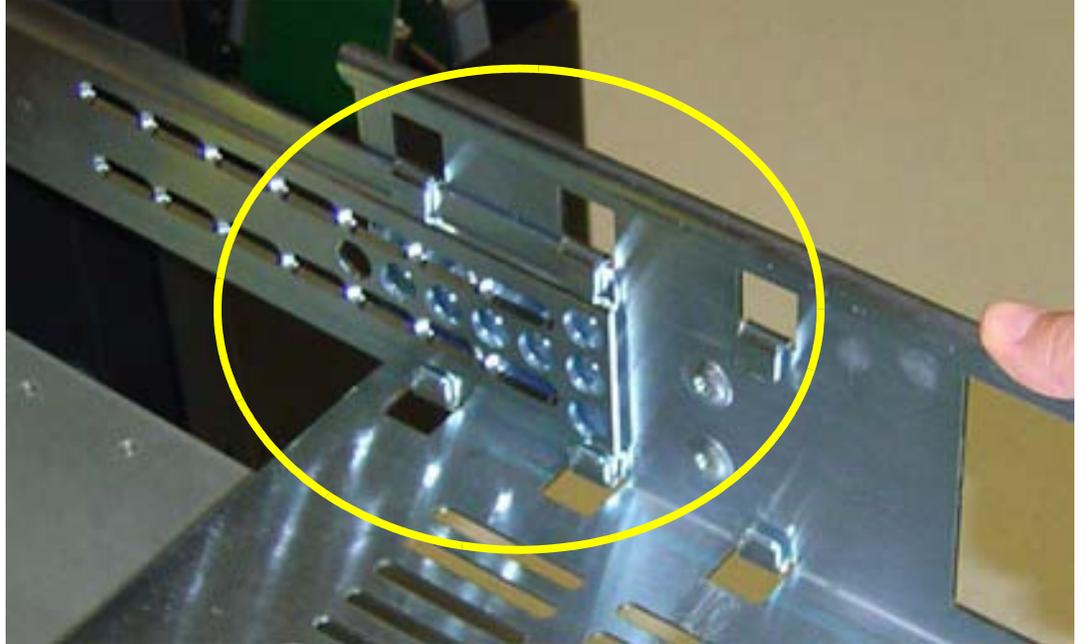
**Figure 2-4:** Align Bracket with Rear Post

- c. Screw the brackets to the rack, using screws that fit your rack.
- d. Repeat with the second bracket on the second rear rack post. Be careful to install both brackets evenly with each other, as the switch will not be able to be installed if the shelf is not even.



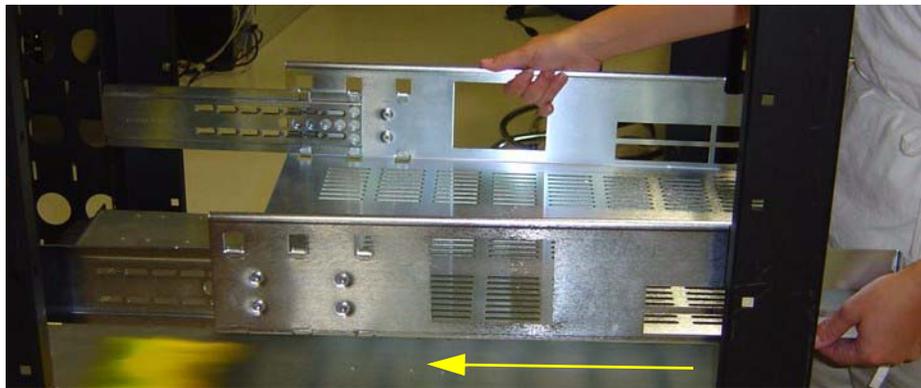
**Figure 2-5:** Attach Brackets to Post Separate from Shelf Unit

5. Align the back end of the shelf with the exposed ends of the mounted brackets in the rack. The back of the shelf unit is the straight end (opposite the end with flanges). There are channels inside the shelf into which the brackets slide.



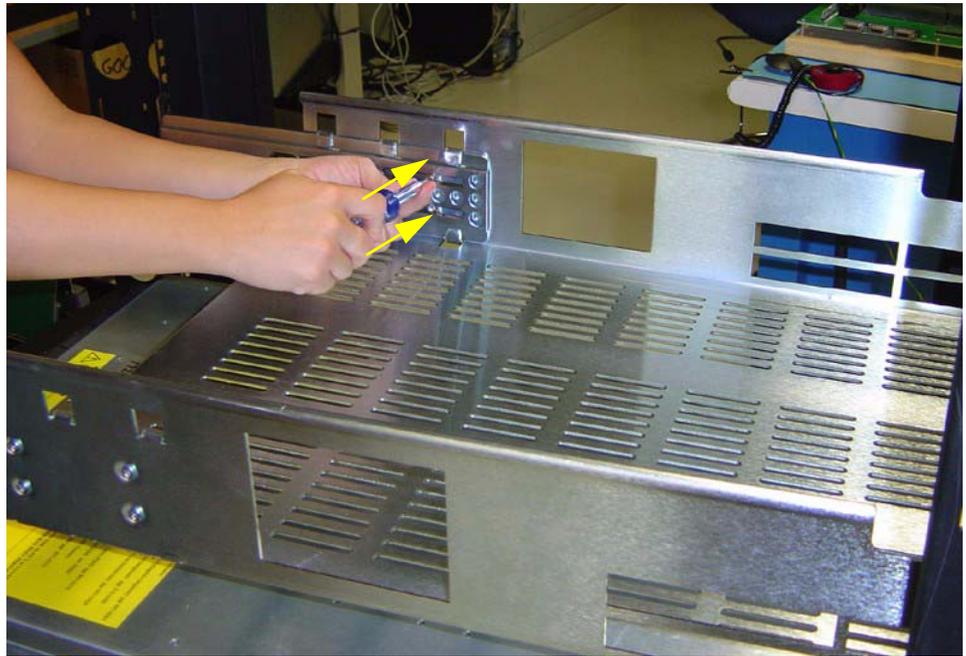
**Figure 2-6:** Align Shelf with Installed Brackets

6. Push the shelf into the rack until the front flanges of the shelf meet the rack posts.



**Figure 2-7:** Push Shelf Unit into Rack

7. Screw the bracket and shelf together from the inside (required). The number of screws that you use on each side will depend on the size of your rack.
  - a. Depending on the amount collapse or extension required of the shelf to fit your rack, use either two screws (minimum) or four screws (maximum).



**Figure 2-8:** Screw the Bracket Into the Shelf From Inside the Rack

8. Attach the front of the shelf to the rack posts, using screws that fit your rack.
  - a. (Optional) You may want to wait to completely tighten screws until you have placed the switch in the rack. This will allow you to make slight adjustments.

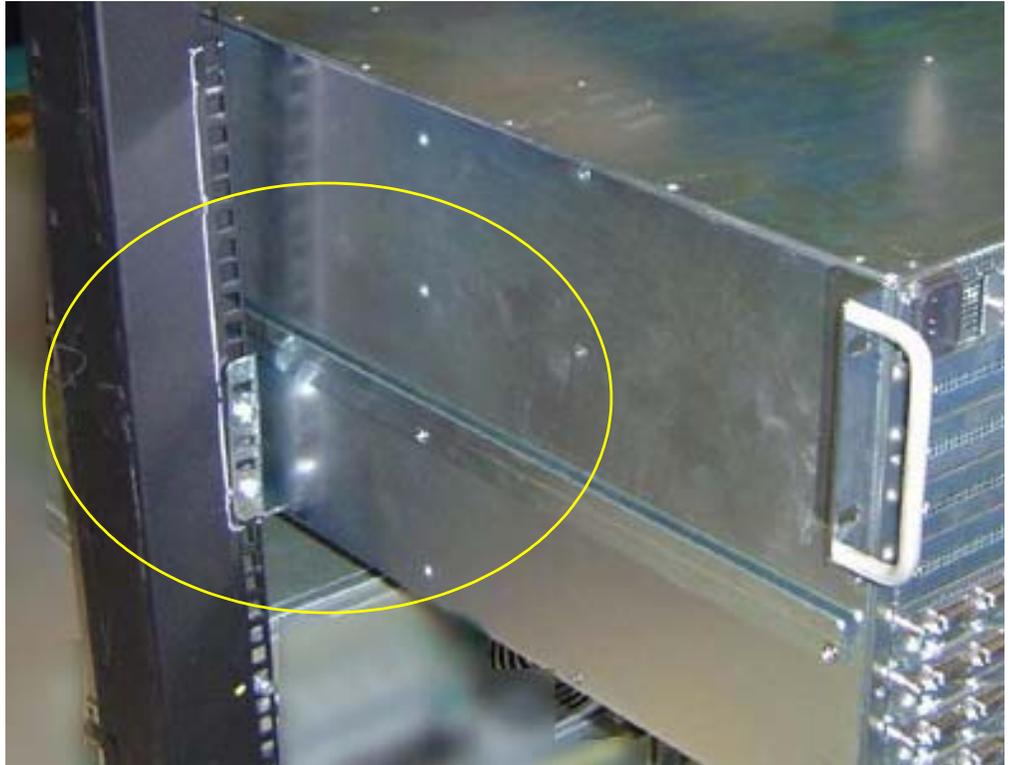


**Figure 2-9:** Screw the Shelf Ears to the Rack Posts

9. Verify that the shelf has been installed evenly.

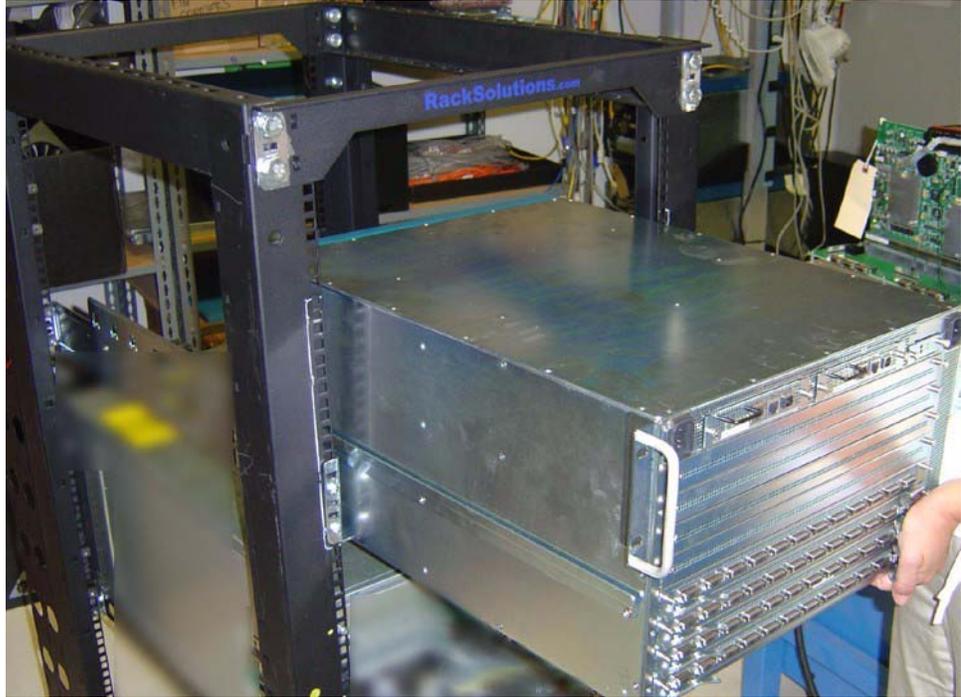
## Lift the Chassis onto the Shelf

10. Place the switch in the rack.
  - a. Lift the switch (using at least two people). Face the side of the chassis without handles toward the rack.
  - b. Rest the end of the chassis at the edge of the shelf. Align the channel of the brackets on the chassis under the channel on the shelf unit. Make sure both sides of the chassis are properly aligned.



**Figure 2-10:** Align Switch Bracket Under Channel of Shelf Bracket

11. Push the chassis back into the rack until the handles meet the rack posts. Make sure that the left and right sides of the chassis are pushed back evenly.



**Figure 2-11:** Push Chassis Into Rack

## Secure the Chassis

12. Attach the chassis handles to the rack posts, using screws that fit your rack.



**Figure 2-12:** Screw Handles to the Rack Posts

13. Tighten any screws that you left loose for adjustment.