



Changing The World of Storage

SPECTRA NTIER700 AND NTIER700 VTL

RACK MOUNTING INSTRUCTIONS



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Part Number

90990042 Revision B

Revision History

Revision	Date	Description
A	July 2008	Initial release
B	March 2009	Updated for new rackmount kit design

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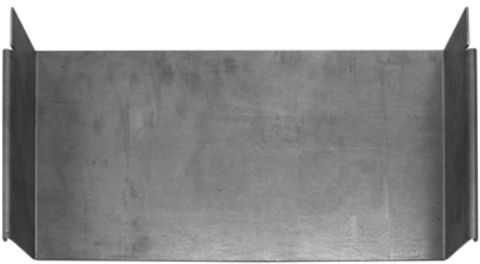
Rack-Mounting the Spectra nTier700



and nTier700 VTL

These instructions describe rack-mounting a Spectra® nTier700™ appliance. The procedure is the same for both the Spectra nTier700 Intelligent Secondary Storage appliance (nTier700) and the Spectra nTier700 Deduplication Virtual Tape Library (nTier700 VTL) appliance. Both appliances are referred to as the nTier700 appliance in these instructions.

BEFORE YOU BEGIN

- Obtain the following tools and equipment:
 - Scissors
 - #2 Phillips screwdriver, magnetic if available
 - Standard 19-inch, four-post rack
 - Measuring tape (recommended)
 - Level (recommended)
 - Two people (recommended)
- Review the information in [Prepare Your Site on page 6](#).
 - Identify the location where you will install the Spectra nTier700 and nTier700 VTL.
 - Make sure that the rack is assembled and placed near the AC power outlets and network connections. See [Prepare the Rack on page 7](#) for additional information.
- Unpack the rack-mount kit and identify the following components:

Component	# Required	Use
 Shelf	3	Shelves fit over the rail assemblies and support the chassis in the rack.

Component	# Required	Use
 <p>Rail assemblies</p>	2	<p>Each rail assembly has two components: the fixed rail and the slider. The components are labeled:</p> <ul style="list-style-type: none"> ▪ Right front and right rear ▪ Left front and left rear
 <p>Screws</p>	10	<ul style="list-style-type: none"> ▪ Attach the rail assemblies to the rack (8) ▪ Secure the chassis to the rack (2)

If You Need Assistance

If you need assistance with any part of this procedure, contact SpectraGuard Technical Support (see [Contacting Spectra Logic on page 2](#)).

Prepare Your Site

Before rackmounting the Spectra nTier700 and nTier700 VTL, make sure that an appropriate rack is assembled and placed near the AC power outlets and network connections.



Caution

The rack must be located on a level, hard-surfaced floor such as cement or tile. Do not place the rack on a carpeted floor or anywhere else that poses risk for static discharge that could damage your nTier700 appliance or its drives.

The nTier700 appliance is 7 in. (18 cm) tall and occupies 4U of rack space. It is designed to fit in a standard 19-inch, 4-post rack but may be too deep for some enclosed racks. Keep the following requirements in mind:

- Using a 4-post rack that is at least 43 inches (110 cm) deep is recommended.
- Make sure that the distance between the mounting surfaces on the front and rear posts is at least 30 inches (76 cm).
- Allow approximately 3 inches (8 cm) of additional depth at the back of the rack for cable clearance.
- Check your rack's specifications to make sure it will accommodate the weight and depth of the nTier700 appliance.

- Notes:**
- The use of two-post "telco" racks is not supported.
 - An enclosed 19-inch, four-post rack is available for purchase from Spectra Logic. The rack has two doors and removable side panels to provide side access.

Prepare the Rack



Warning

If you are not installing any other equipment in the rack, install the nTier700 near the bottom of the rack to prevent the rack from being top-heavy.

German: Wenn Sie nicht die Installation eines anderen Geräts im Rack, installieren Sie die nTier700 in der Nähe der Unterseite des Racks zu verhindern, dass die Stange nicht kopflastig.

If you are using an enclosed rack with a front door, identify the front of the rack and make sure that there is at least 1.5 inches (3.8 cm) clearance between the front door frame and the front mounting posts (Figure 1). This clearance is needed to allow the front door to close over the nTier700 appliance front panel. If necessary, move the front mounting posts toward the back of the rack to provide the necessary clearance.

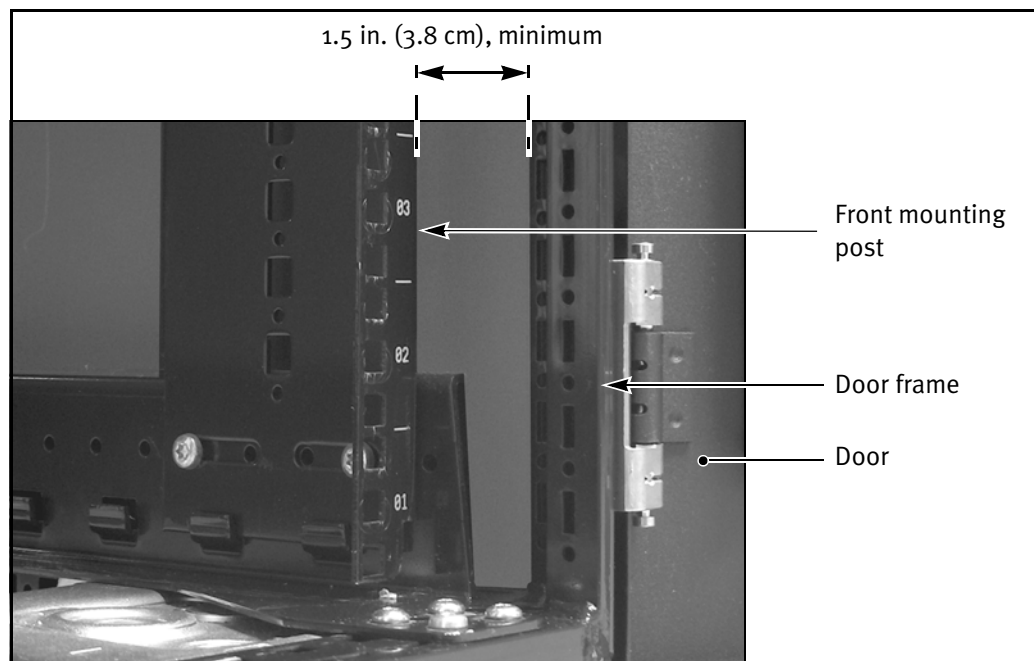


Figure 1 Ensure clearance between the rack's front door and the front posts.

- Assemble the rack, if necessary.
- Identify the location in the rack where you will install the nTier700 appliance. For stability, Spectra Logic recommends mounting the nTier700 appliance near the bottom of the rack.

RACKMOUNT THE NTIER700 APPLIANCE



Important

Do not install the drives into the blades until *after* you finish installing the nTier700 appliance in the rack.

Install the Rail Assemblies in the Rack

1. If necessary, assemble the rails by inserting the slider into the guides in the fixed rail (Figure 2). The rail components are labeled for easy identification. Make sure the labels are on the same side of the assembled rail.



Figure 2 Assembled rail (left-side rail shown)

2. Position the rail assembly at the desired height in the rack with the adjustable slider toward the back of the rack. Make sure the mounting tabs are behind the cut-outs in the posts.
3. With one person supporting the back of the rail assembly, use a #2 Phillips screwdriver to install two screws in the bottom two holes in the front mounting tab, securing the rail to the front post (Figure 3). Do not completely tighten the screws yet.

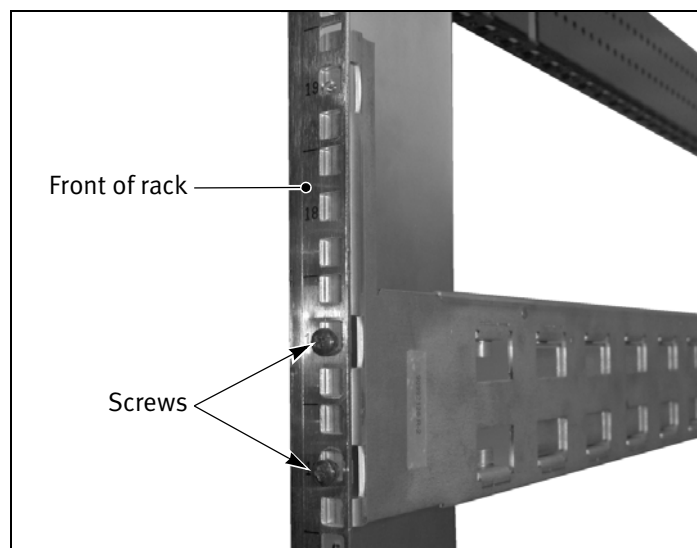


Figure 3 Attach front of the rail assembly to rack post.

4. Adjust the slider so that the mounting tab fits against the inside of the rear post.
5. Using a #2 Phillips screwdriver, install two screws to secure the back of the rail assembly to rear post (Figure 4). Use a level to make sure the rail is level from front to back. Do not completely tighten the screws yet.

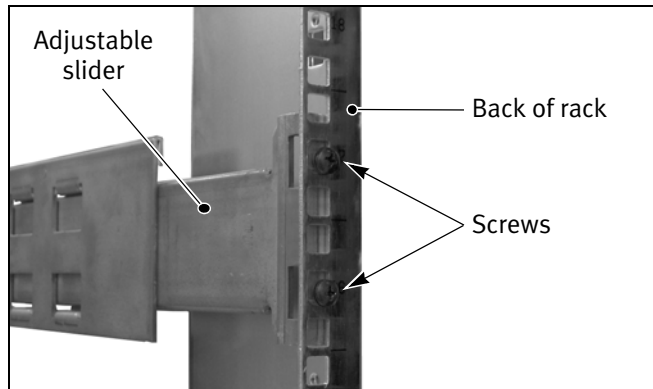


Figure 4 Attach back of the rail assembly to rack post.

6. Repeat Steps 2 through 4 to install the second rail. Use a level to make sure the installed rails are level from side to side.

Install the Shelves

1. Angle one of the shelves inside the rack and orient it with the notched edge toward the front of the rack.

Note: The cut-out in the edge allows the shelf to fit into a rack that has side supports.

2. Position the shelf so that the rolled edges fit over the rails on either side. Slide the shelf toward the front until the notches in the edges fit over the alignment pins extending from each rail (Figure 5).

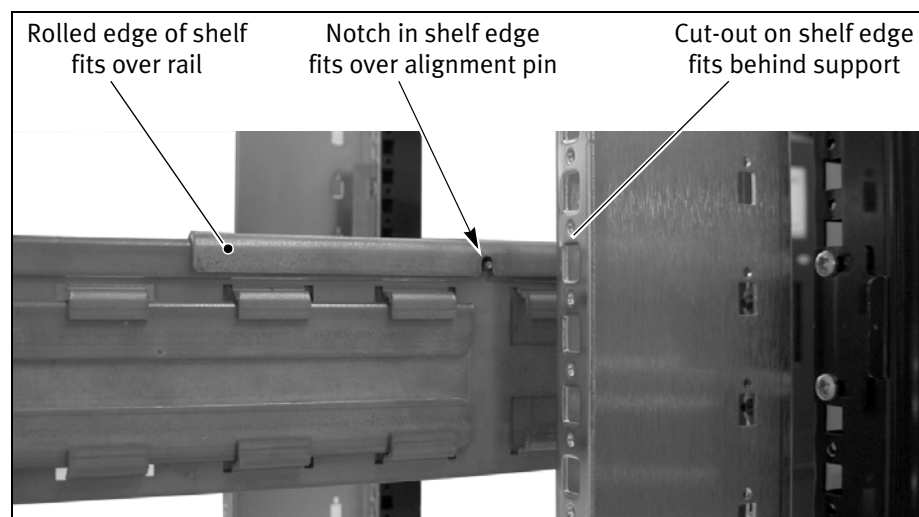


Figure 5 Install the front shelf over the rails.

3. Angle the next shelf into the rack and fit the rolled edges over the rails so that the notches fit over the alignment pins.
4. Repeat [Step 9](#) to install the third shelf.

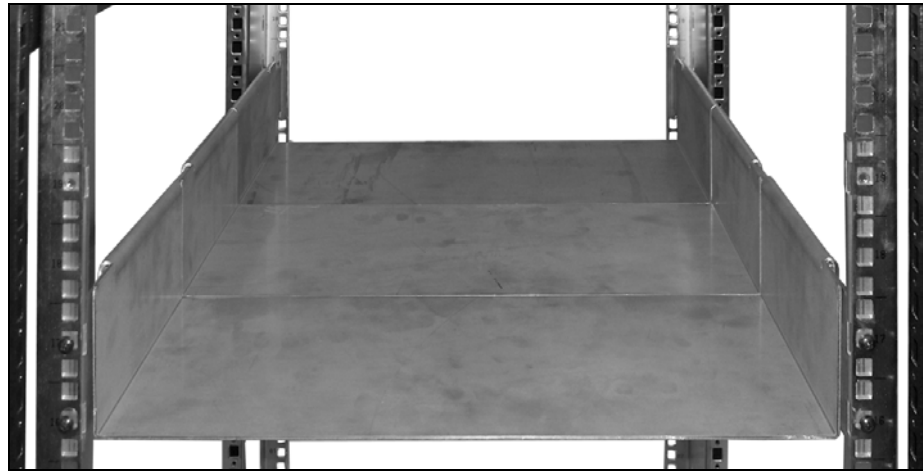


Figure 6 All three shelves installed.

5. Using a #2 Phillips screwdriver, tighten all 10 screws in the front and rear rail mounting tabs to secure the shelf assembly to the rack posts.

Slide the nTier700 Appliance Onto the Rack



Warning

The nTier700 appliance weighs approximately 134 lb. (61 kg) when empty. Enlist at least two people to help lift it out of the box and into the rack.

German: Die nTier700 appliance wiegt ca. 61 kg, wenn leer. Einstellen mindestens zwei Menschen zu helfen, heben Sie die nTier700 appliance aus und im Rack.

1. Position the nTier700 appliance chassis in front of the rack and lift it onto the rack shelf.
2. Slide the chassis back into the rack until the mounting brackets on each side of the chassis are against the posts.

- Using a #2 Phillips screwdriver, install one screw in the mounting bracket on each side of the chassis to secure the chassis to the rack and tighten the screws.

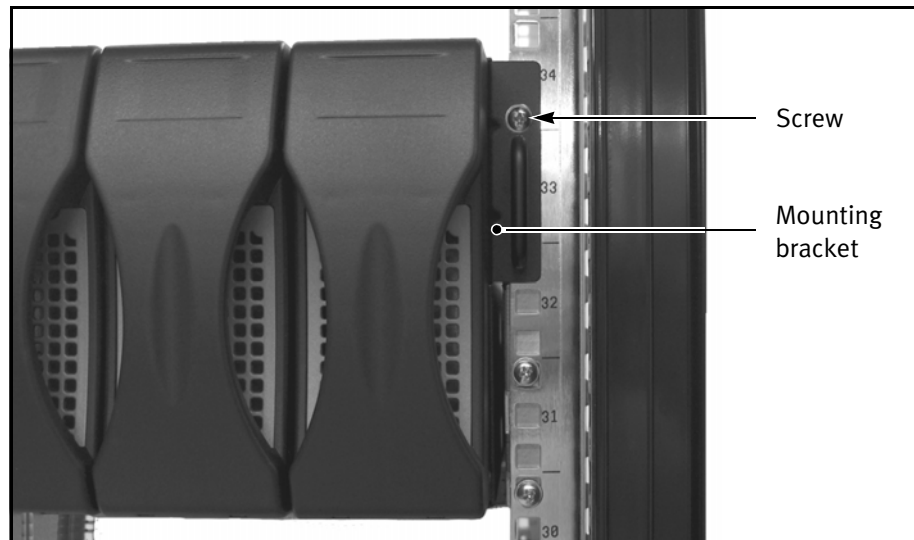


Figure 7 Install screws to secure the nTier700 to the rack.

- You are now ready to install the drives in your nTier700 appliance. Refer to the *Spectra nTier700 User Guide* or *Spectra nTier700 VTL Installation Guide* for instructions.

Notes