

EVIDEN

BullSequana EXR

Installation Guide

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Hardware

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**Eviden
30 bis rue du Nid de Pie
49000 Angers
FRANCE**

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Preface

This guide explains how to install the server for the first time.

See The Bull support web site for the most up-to-date product information, documentation, firmware updates, software fixes and service offers:
<https://support.bull.com>

Intended Readers

This guide is intended for use by instructed or skilled personnel in charge of installing the server.



DANGER D049

The product must not be used in life support system or other applications where failure could threaten injury or life, and any such use voids the limited warranty associated to the product.

Chapter 1. Checking the delivery contents

Important **ATTENTION:** Please read carefully the safety instructions before you perform the procedures described in this manual. See the *Multilingual Safety Notices Guide* for translated versions of the safety notices.

1.1. Unpacking the server

Important **Before unpacking the server inspect the packaging for damage.**



WARNING W020

The server drawer must not be unpacked before it has reached the room temperature (24 hours in the computer room).

According to the configuration, the following items are included.

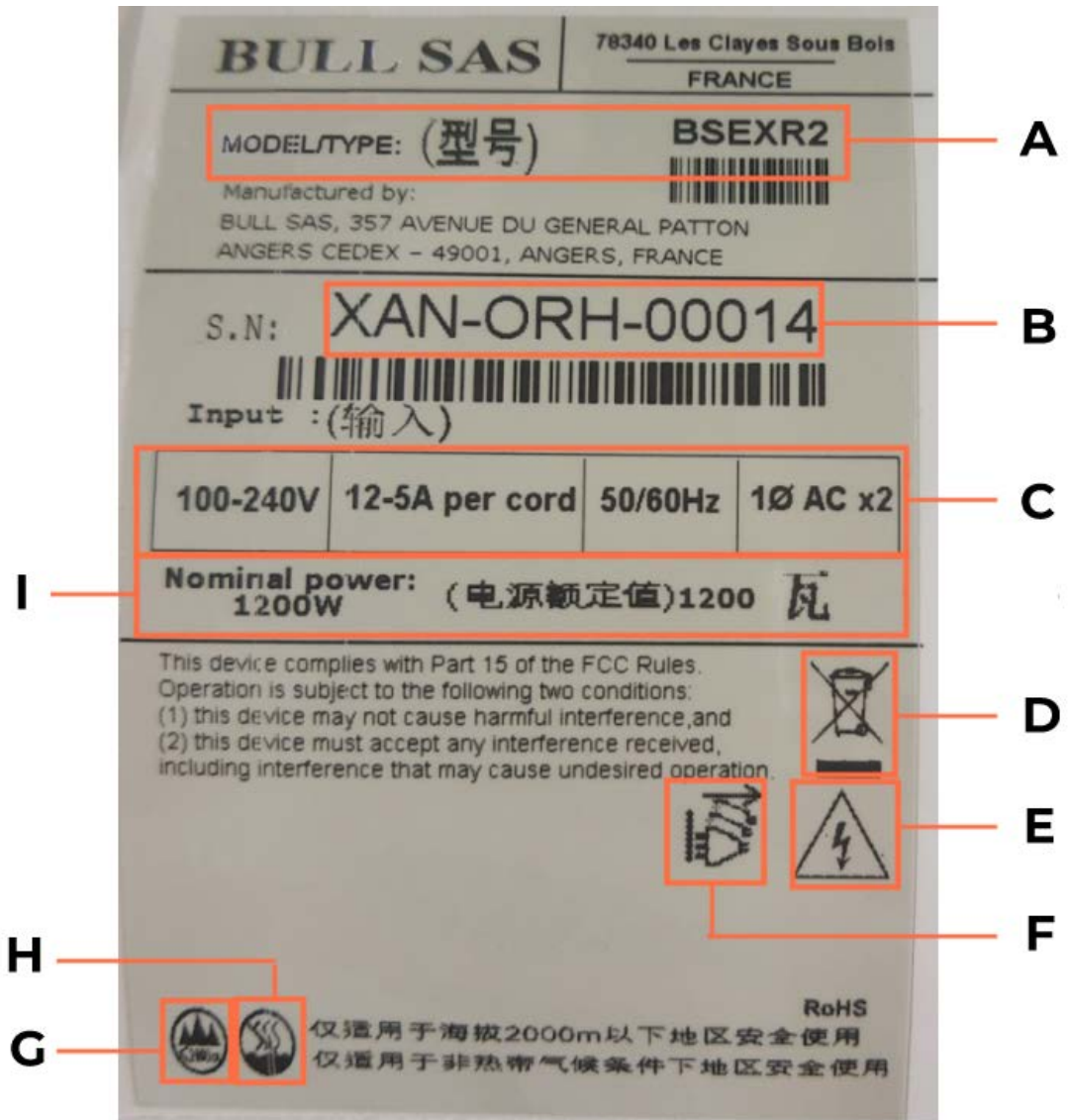
- Antennas
- Screws and washers
- Slide rails, front brackets and rear brackets
- The BullSequana EXR server

1.2. Checking labels

Safety warning labels, including safety notices and graphic symbols, are present on the server. Check that the electrical installation complies with the label details.

1.2.1. Identification label

Description



Mark	Description
A	Model name
B	Serial number
C	Electrical characteristics
D	Recycling symbol: it is mandatory to reuse and recycle electronic and electrical equipment properly
E	Electric hazard symbol: Caution! Risk of electric shock
F	Multiple power sources symbol: Caution! The system has more than one power source, which must all be disconnected before servicing to avoid shock hazard
G	Altitude symbol: the system must not be operated at an altitude higher than 2000 meters
H	Tropicalization symbol: the system must be operated within the adequate limits of temperature and humidity
I	Nominal power



CAUTION C044

This unit has more than one power supply cord. Disconnect all power supply cords from the unit before servicing. Proceed as follows:

- 1. Power OFF the system**
- 2. Switch OFF the site power breakers**
- 3. Remove all power supply cords from the system**



WARNING W071

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference and**
- (2) this device must accept any interference received including interference that may cause undesired operation.**

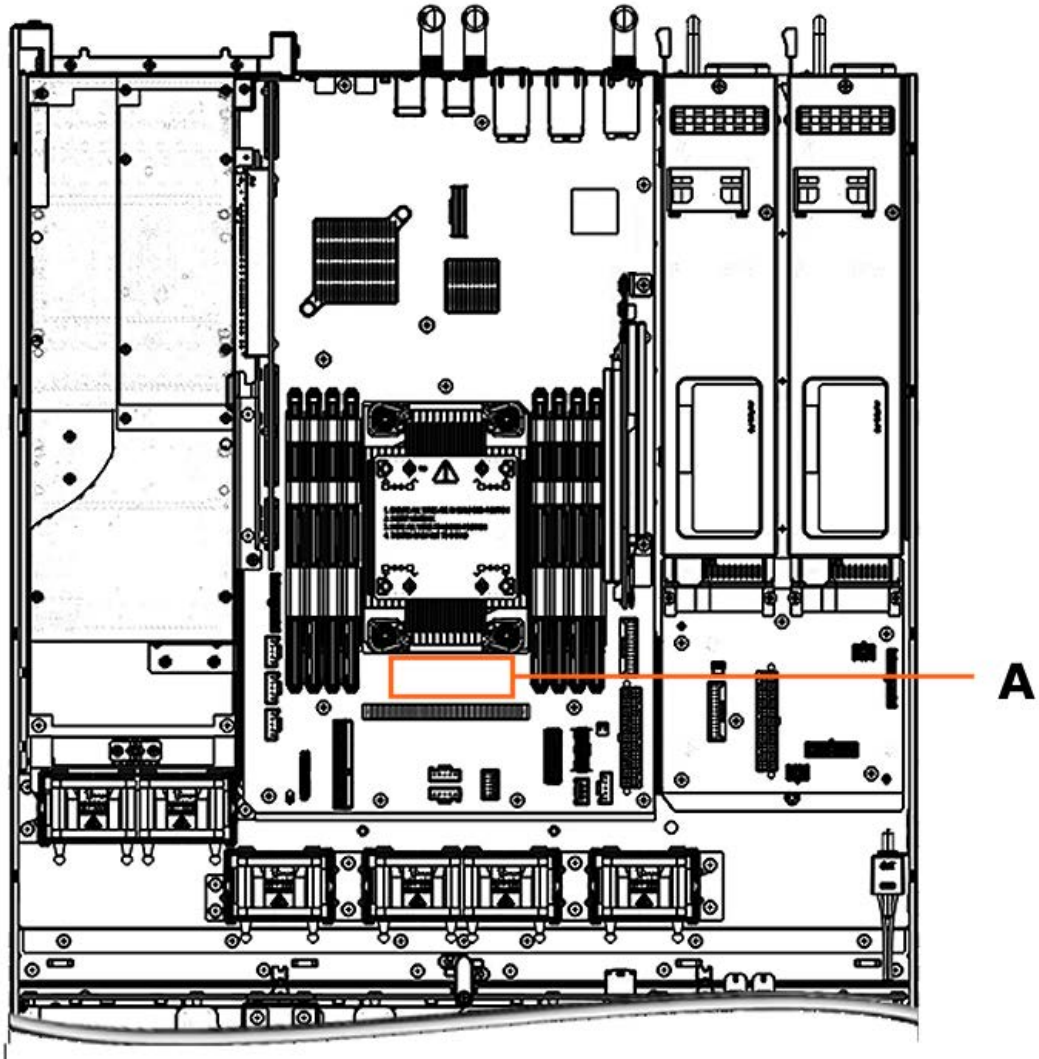
Model names

Model name	Commercial name	Serial number
BSEX1	BullSequana EXR 1U server with 1200W power supply and M.2 internal storage	XAN-ORH-xxxxx
BSEX2	BullSequana EXR 1U server with 1200W power supply and SATA storage	XAN-ORH-xxxxx

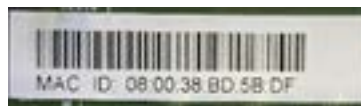
1.2.2. MAC address label

Important It is recommended to write down the MAC address in case the label is lost.

The label (A) is underneath the processor block.

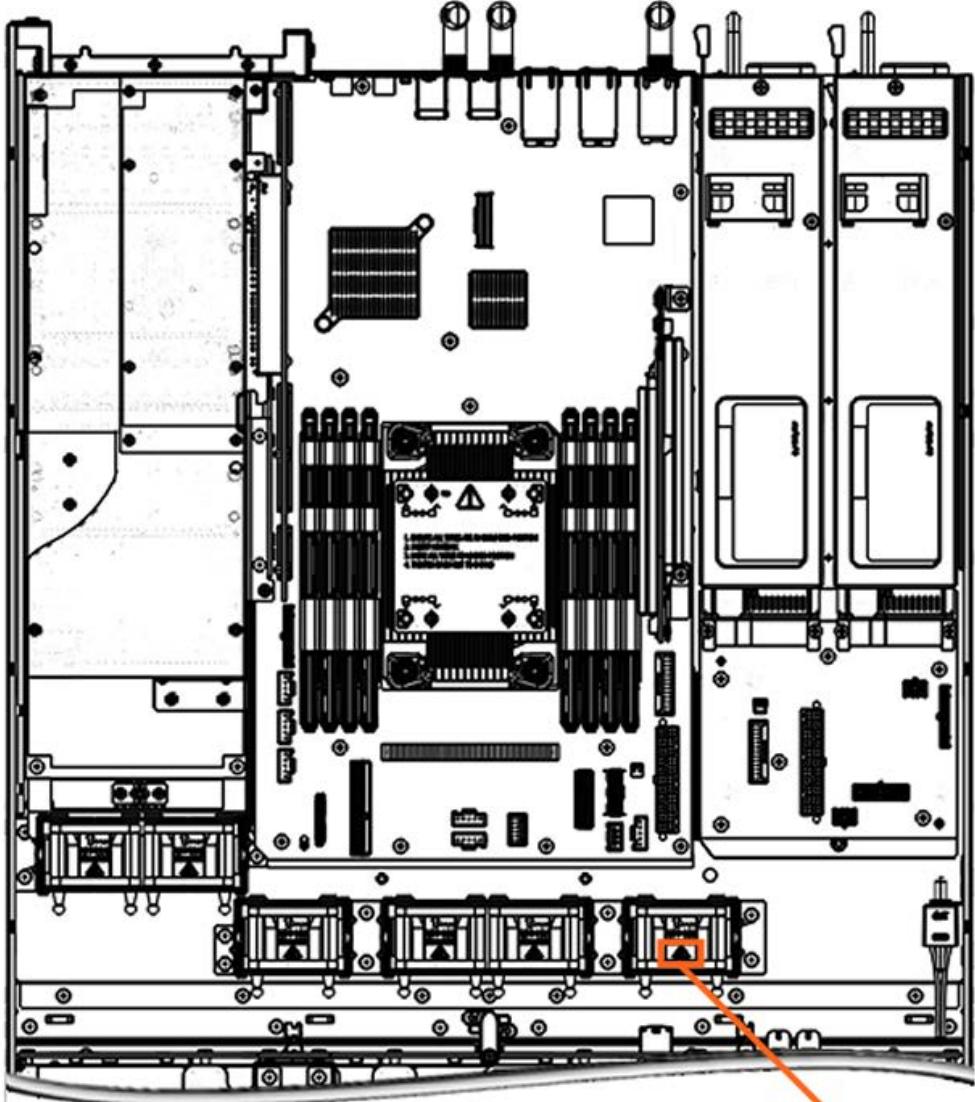


If necessary, remove the cover to check the label.



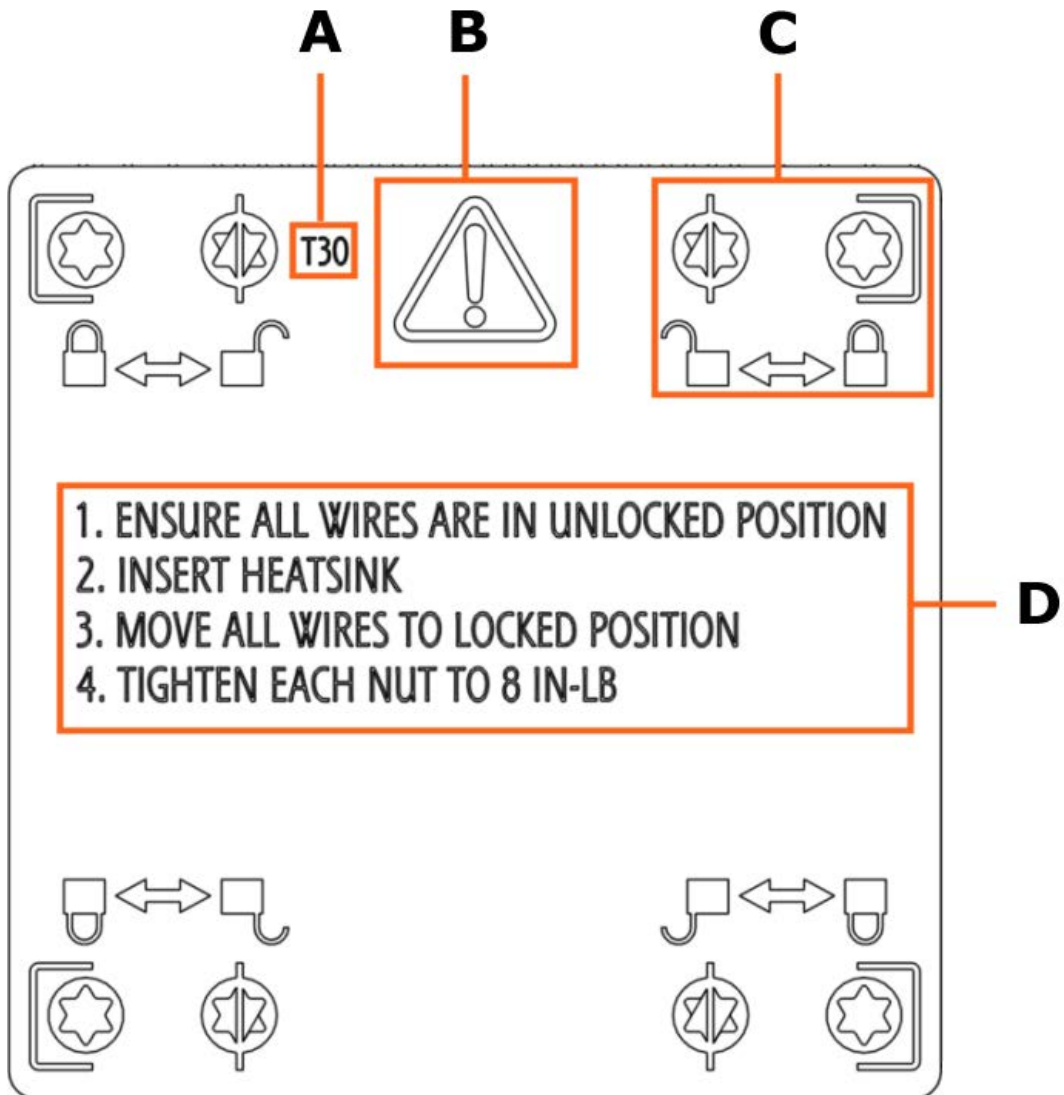
1.2.3. Fan hazard safety label

The labels are on the fans, inside the server.



1.2.4. Processor label

The label is on top of the processor assembly.



Mark	Description
A	Torque value
B	Warning symbol
C	Locking symbols
C	Locking instructions

Chapter 2. Installing the server



CAUTION C050

The device must be installed in a location where the transmitting antenna is at least 20 cm from any people in order to comply with radio frequency exposure regulatory requirements.



WARNING W079

Devices and antennas must not be operated with other antennas or transmitters. Only devices and antennas, tested and approved by the manufacturer, should be used. It is prohibited to change the configuration of devices or antennas. Any changes will violate safety rules.



WARNING W080

Use only antennas which have been provided and approved by the manufacturer. Non-approved antennas may produce excessive radio frequency transmitting power and may exceed FCC/IC limits. Non-approved antenna use is prohibited.

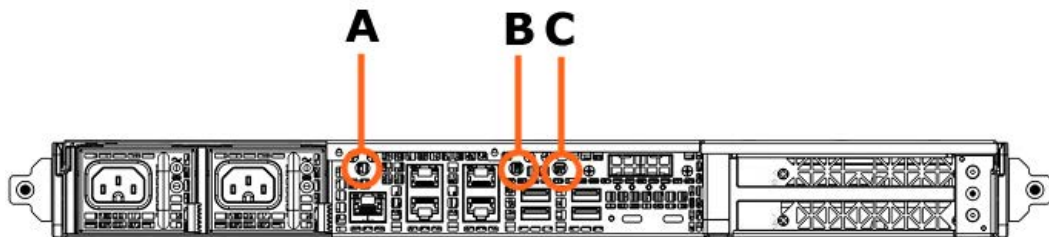
2.1. Installing the antennas

Required tools

None

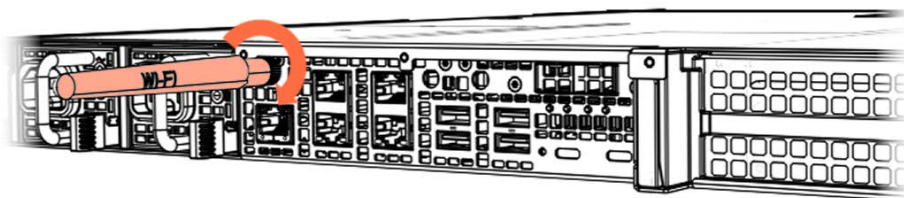
Procedure

1. Locate the position for the antennas



	Configuration 1 2 antennas	Configuration 2 3 antennas	Configuration 3 3 antennas
A	<ul style="list-style-type: none"> Dual-band 2.4-5.9 GHz WIFI LoRa 	Dual-band 2.4-5.9 GHz WIFI	LTE/5G
B		LTE/5G	<ul style="list-style-type: none"> Dual-band 2.4-5.9 GHz WIFI LoRa
C	LTE/5G	Dual-band 2.4-5.9 GHz WIFI	LTE/5G

2. Turn each antenna to fix it into place



3. Fold the antennas down for the installation of the server in the rack

Note The antennas may be installed after the server has been inserted into the rack, providing there is access to the rear of the server.

2.2. Preparing the rail assemblies

Required tools

- PH1 cross-headed screwdriver
- PH2 cross-headed screwdriver
- 3 mm slot screwdriver
- Two slide rails
- Two rear brackets
- Two front brackets
- Screws, washers and nuts

See [Appendix: Screws, washers and nuts](#)

Procedure

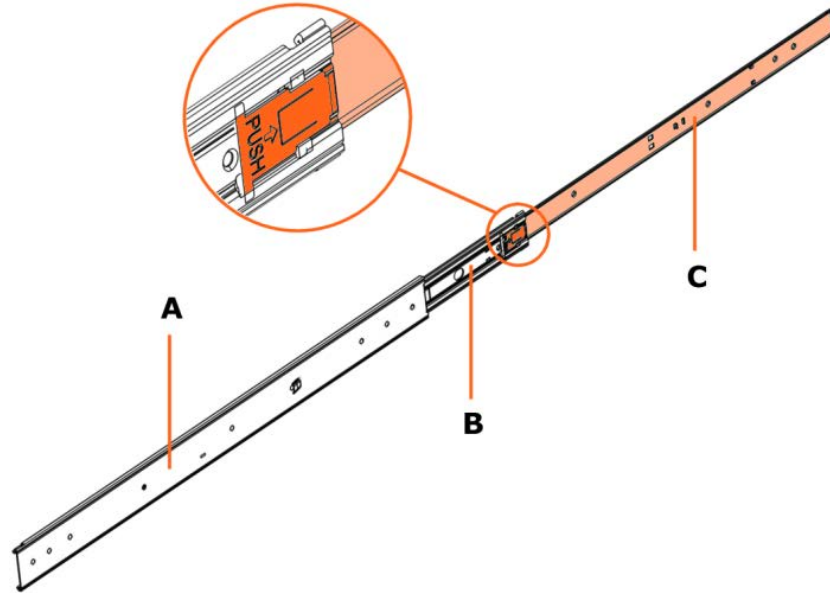
1. Prepare the slide rails

Unpack the slide rails.

2. Remove the inner rails

For each slide rail:

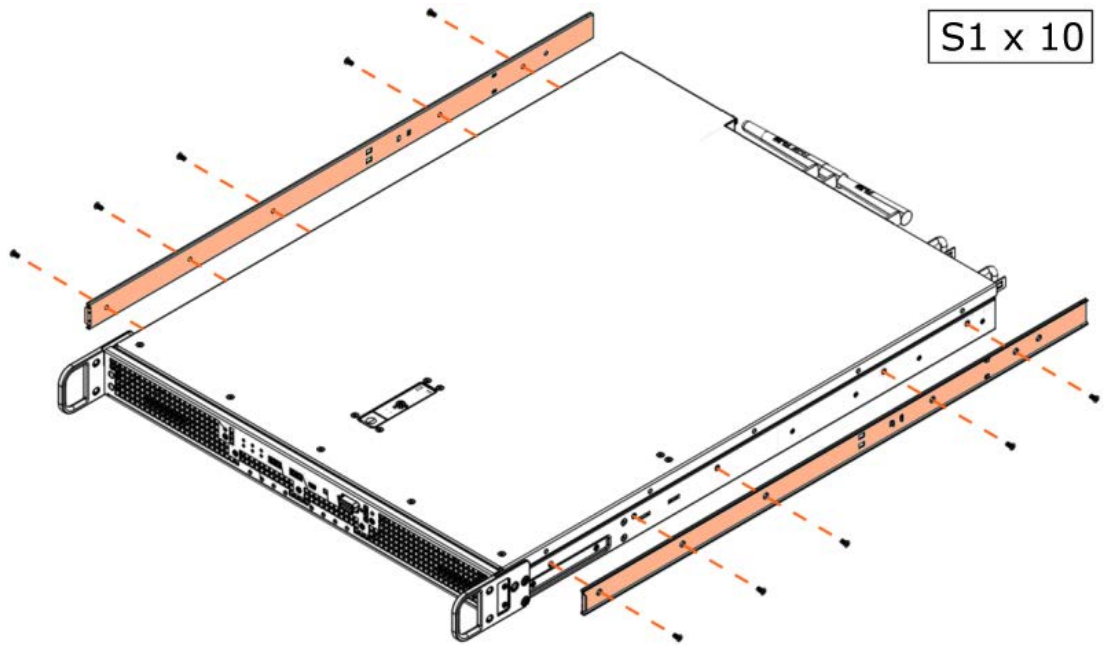
1. Pull the inner rail (C) out until it clicks.
2. Push the release latch in.



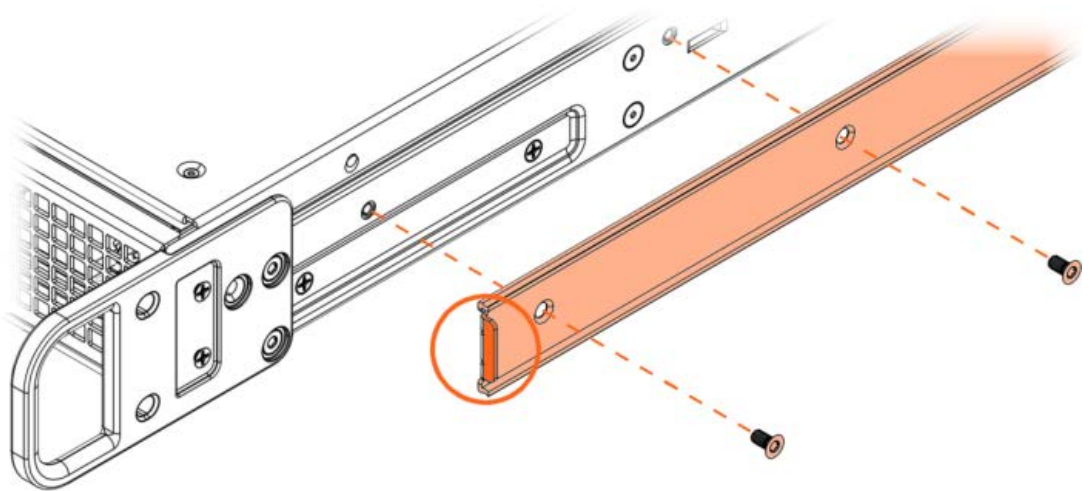
Mark	Description
A	Outer rail
B	Middle rail
C	Inner rail

3. Remove the inner rail (C) completely.

3. Attach the inner rails to the server

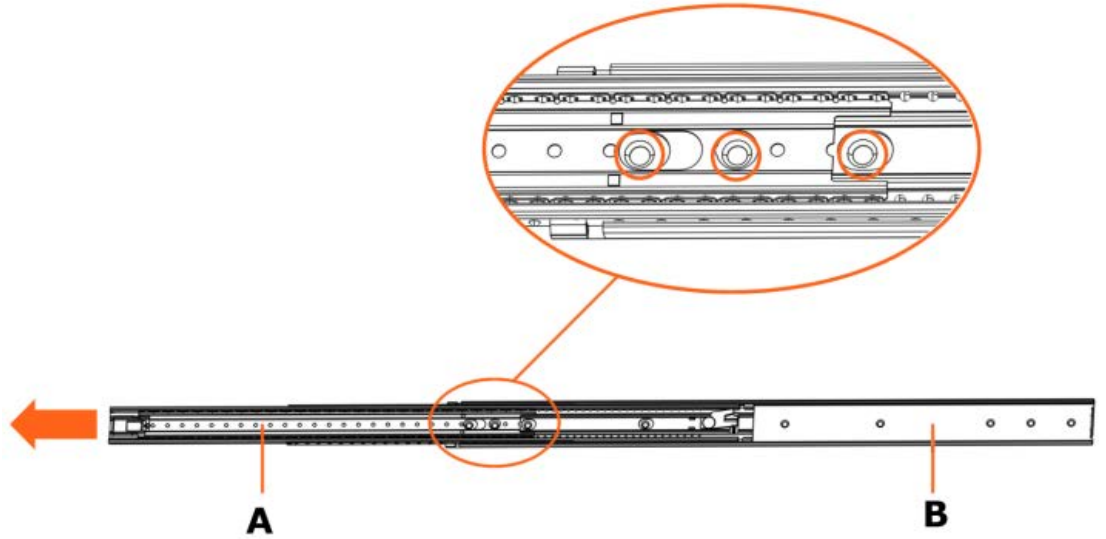


Ensure that the inner rail protruding edge is at the front of the server.

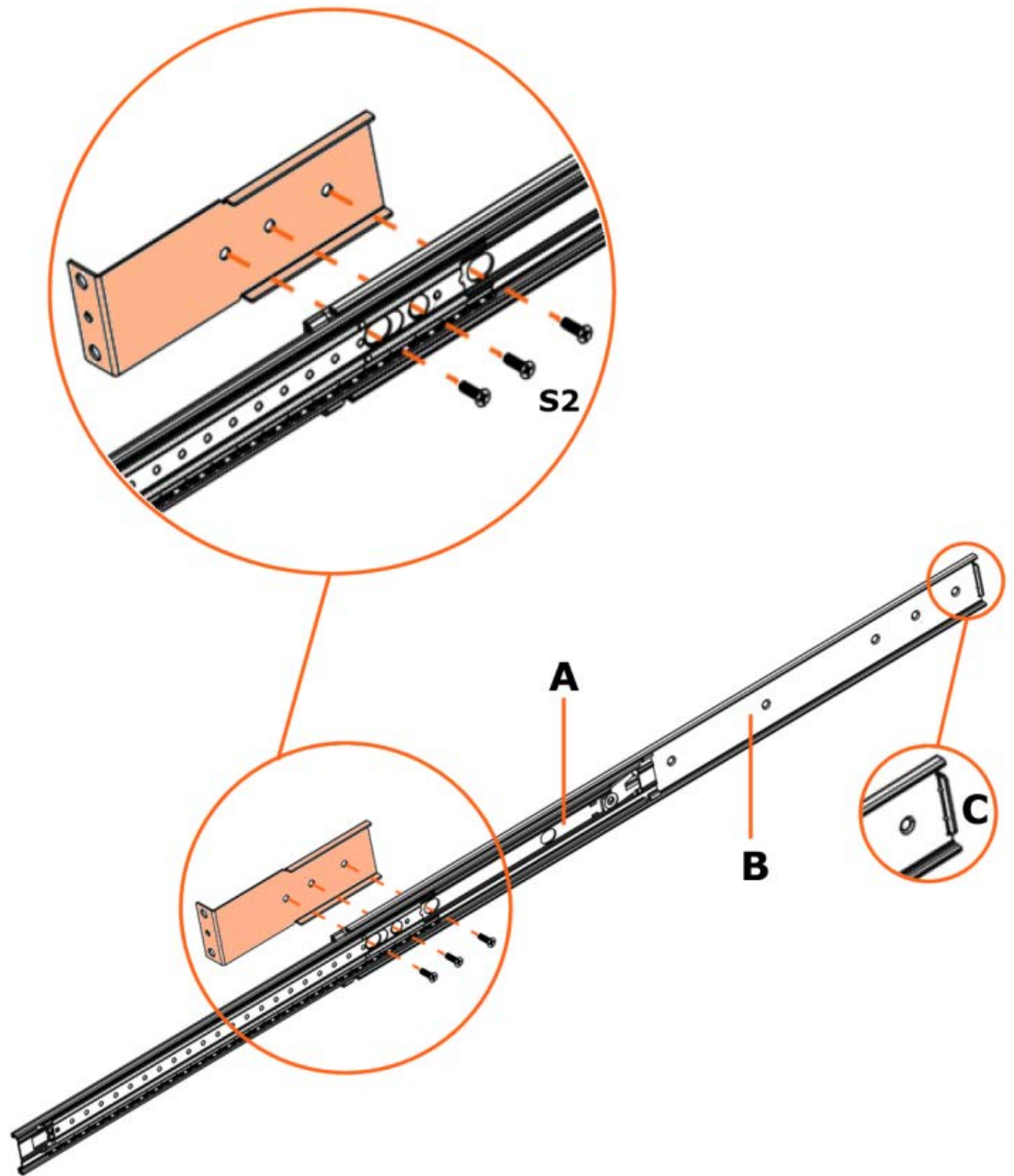


4. Attach a front bracket to each outer rail

1. Pull the middle rail (A) out until it clicks.
2. Check that the outer rail (B) mount holes underneath are exposed.



3. Attach the front bracket to the outer rail.



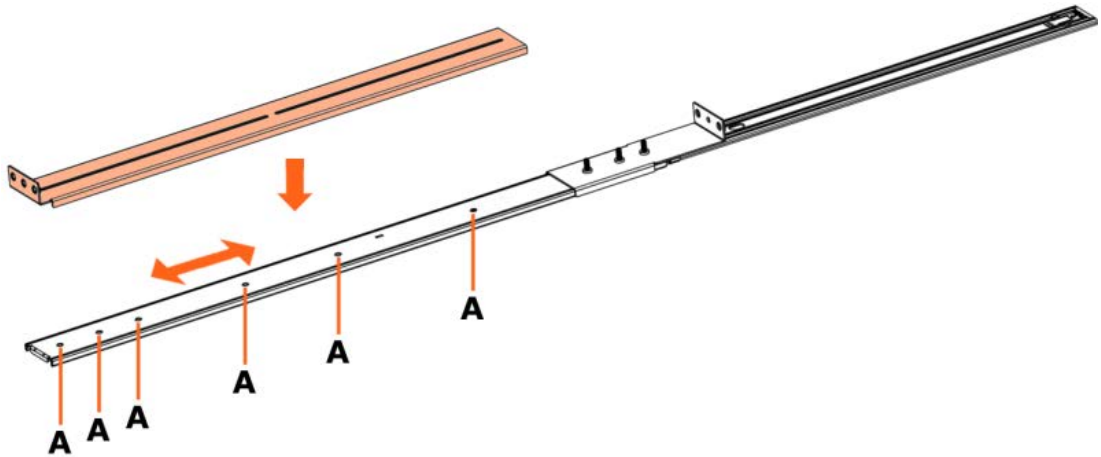
Mark	Description
A	Middle rail
B	Outer rail
C	Rear edge

5. Note the depth of the rack cabinet

This will be between 600 and 900 millimeters.

6. Attach a rear bracket to each outer rail

1. Place a rear bracket on the outer rail.



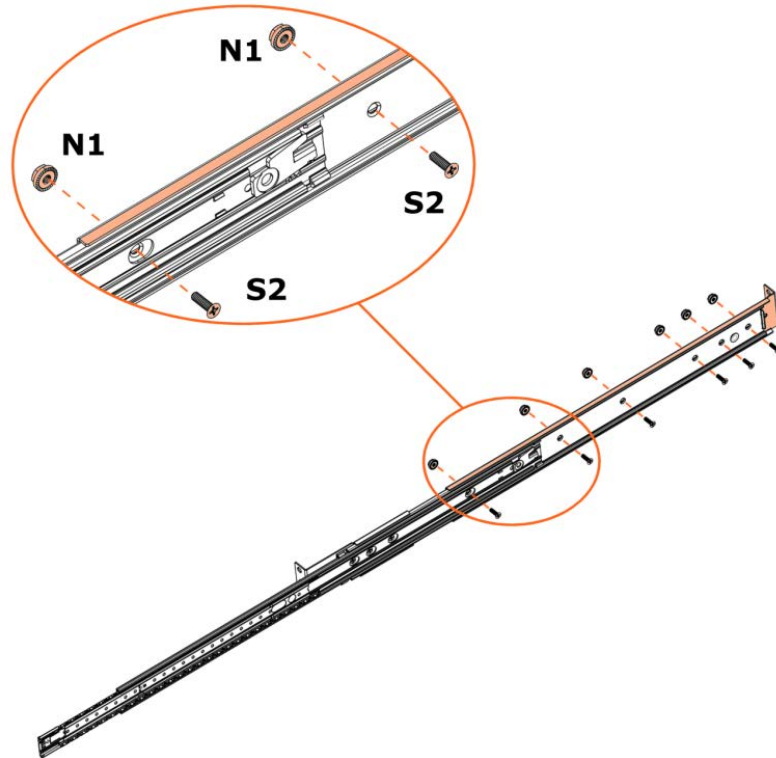
2. Adjust the rear bracket position on the outer rail to match the rack cabinet depth.

Note According to the rack cabinet depth the number of rear bracket mount holes (A) used varies from three to six.

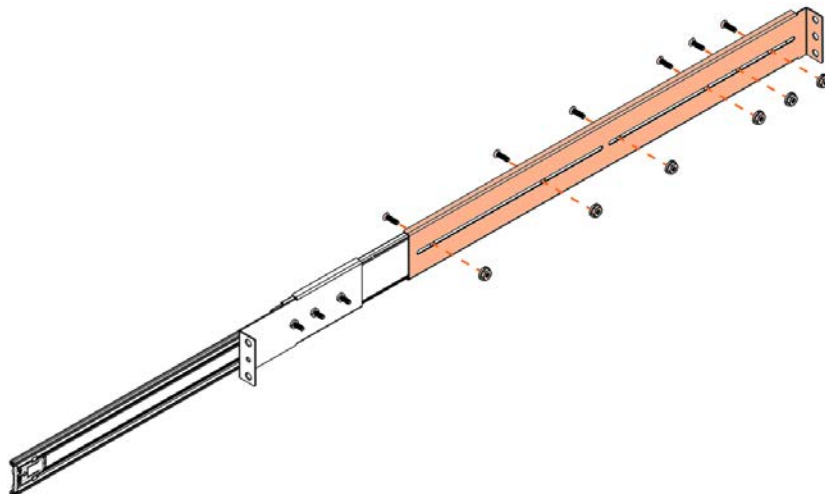
Attaching a rear bracket for a 600 millimeters deep rack cabinet

Note For a rack cabinet that is 600 millimeters deep six screws and nuts are required.

Rear view



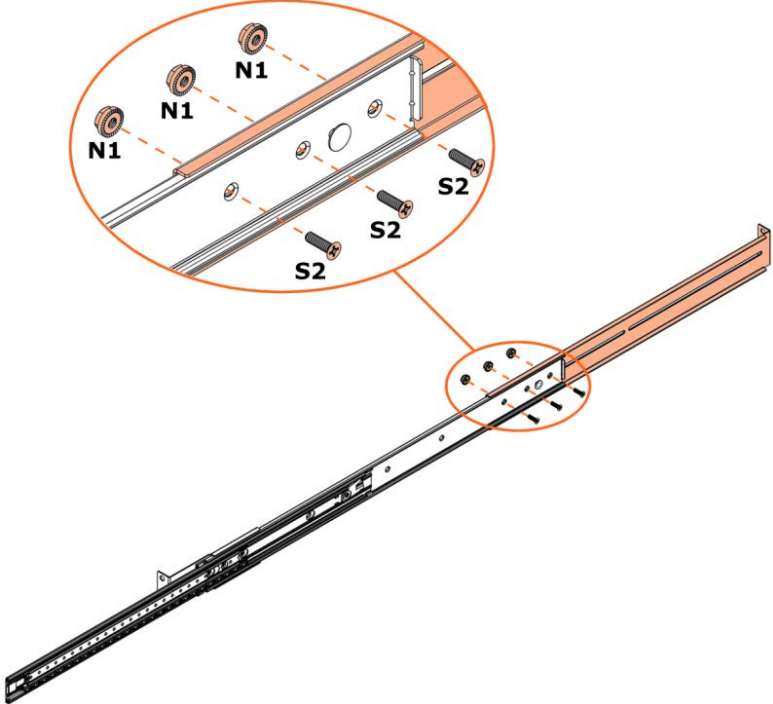
Front view



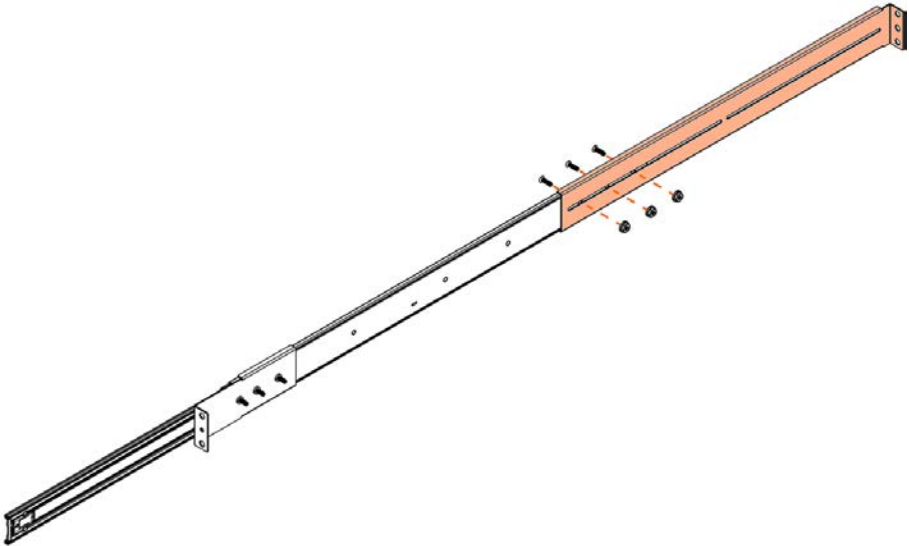
Attaching a rear bracket for a 900 millimeters deep rack cabinet

Note For a rack cabinet that is 900 millimeters deep three screws and nuts are required.

 Rear view



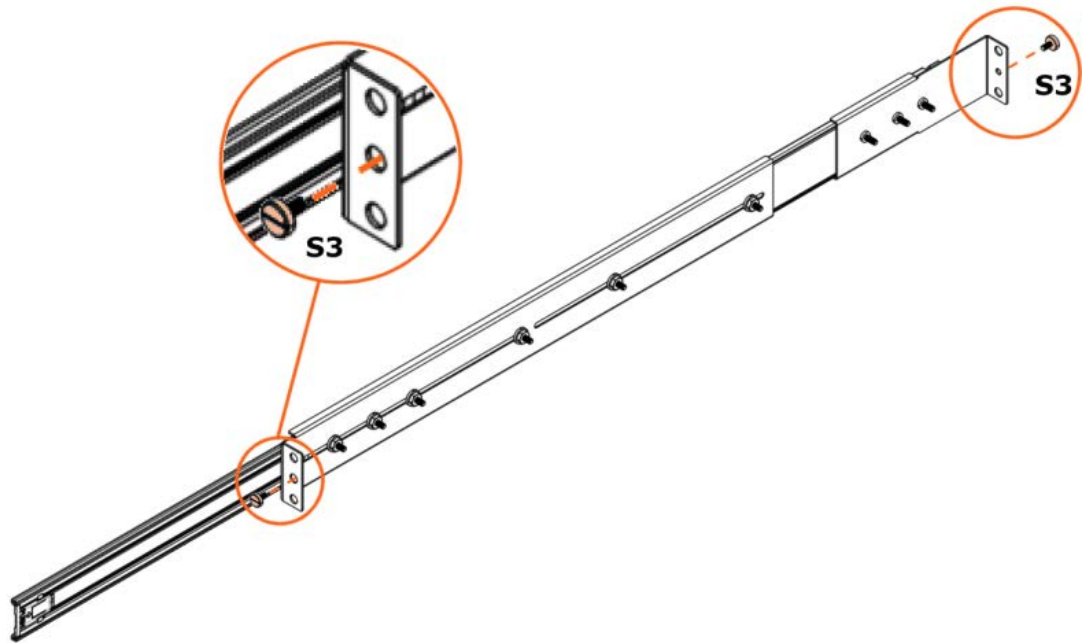
 Front view



3. Partially tighten the screws to secure the rear brackets into place.
4. Check that the distance between edge of the rear bracket and the edge of the front bracket matches the rack depth.

7. Insert a guide pin into the front and rear brackets of the rail assembly

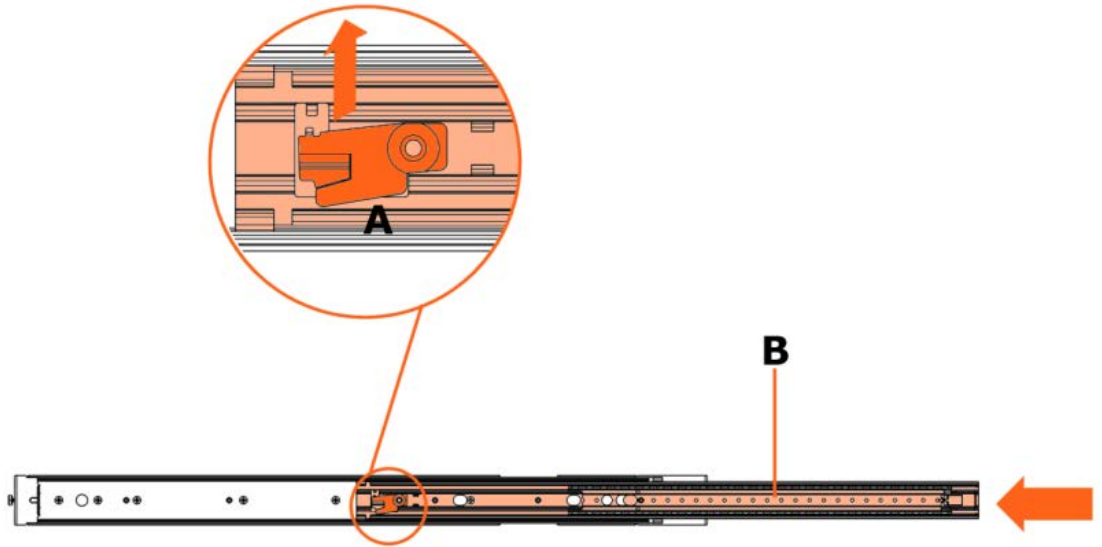
Note The rail assembly consists of the middle rail and the outer rail with the front bracket and the rear bracket attached.



Mark	Description
A	Middle rail
B	Front bracket
C	Outer rail
D	Rear bracket

8. Push the middle rail back to its original position

1. Lift the middle rail release latch (A) up.
2. Push the middle rail (B) in until it clicks back into place.



2.3. Attaching the rail assemblies to the rack cabinet

Required tools

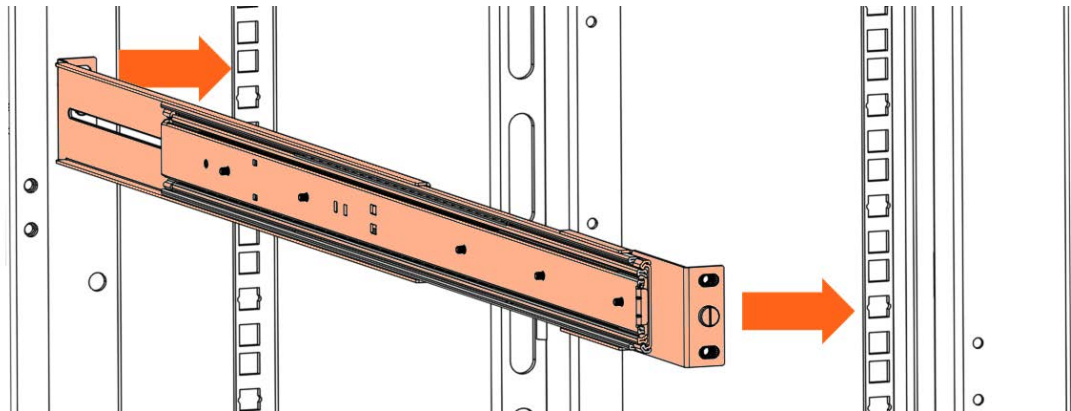
T25 Torx screwdriver

See [Appendix: Screws, washers and nuts](#)

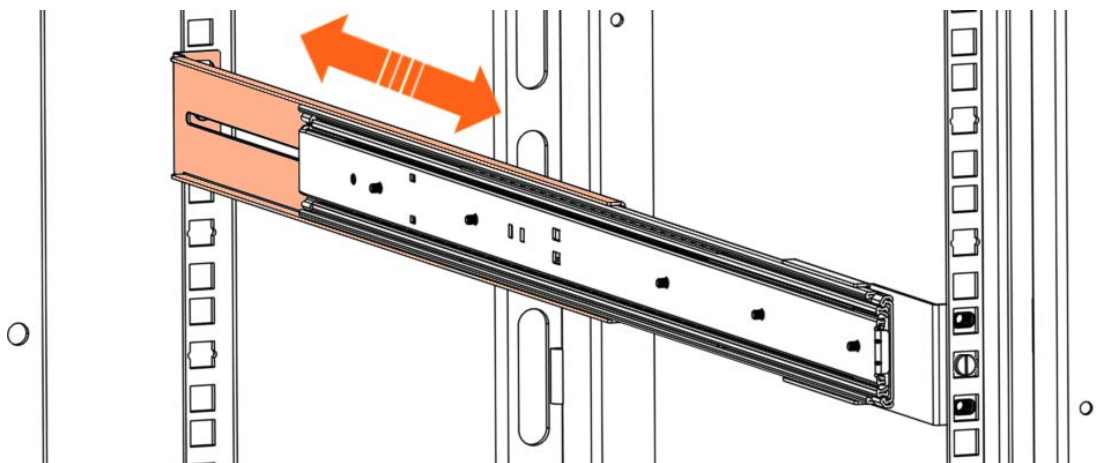
1. Attach the rail assemblies to the rack cabinet

For both rail assemblies:

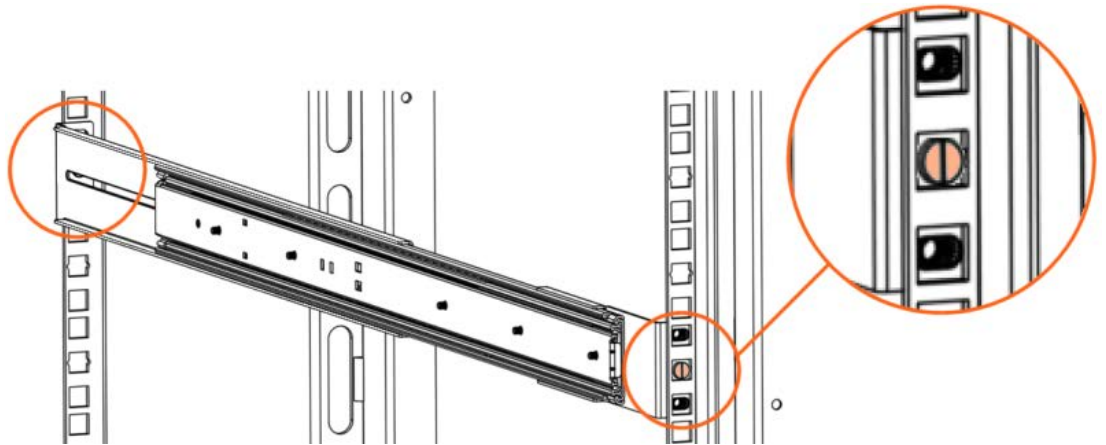
1. Move the rail assembly into place.



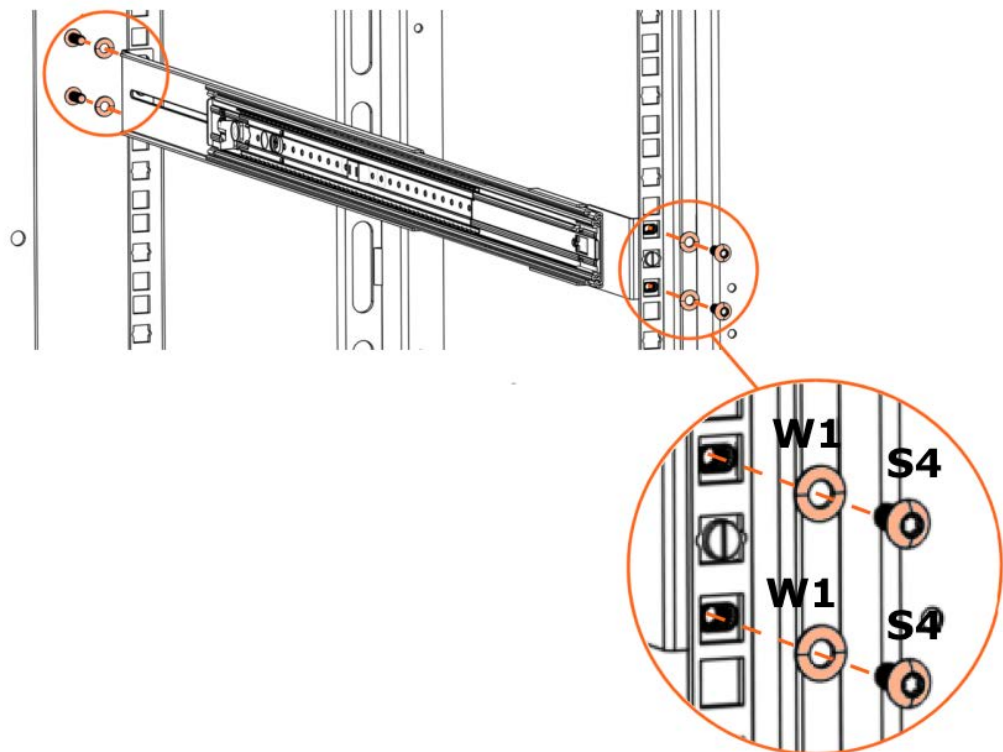
2. If necessary, adjust the length of the rail assembly by sliding the rear bracket.



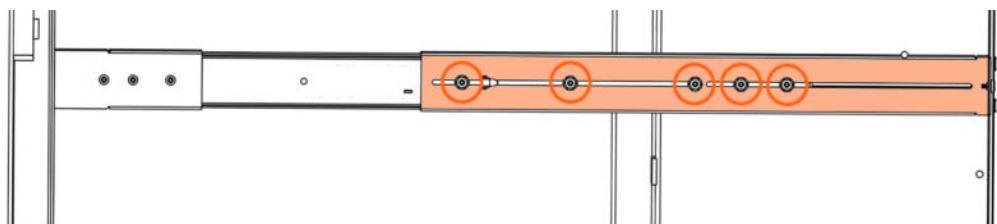
3. Position the rail assembly using the guide pins at each end.



4. Secure the rail assembly into place.



5. Tighten the rear bracket nuts.



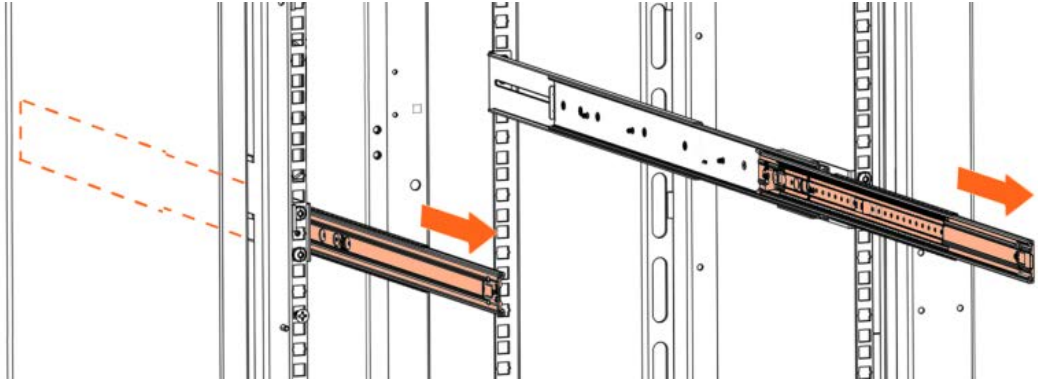
2.4. Installing the server in the rack cabinet



CAUTION C045

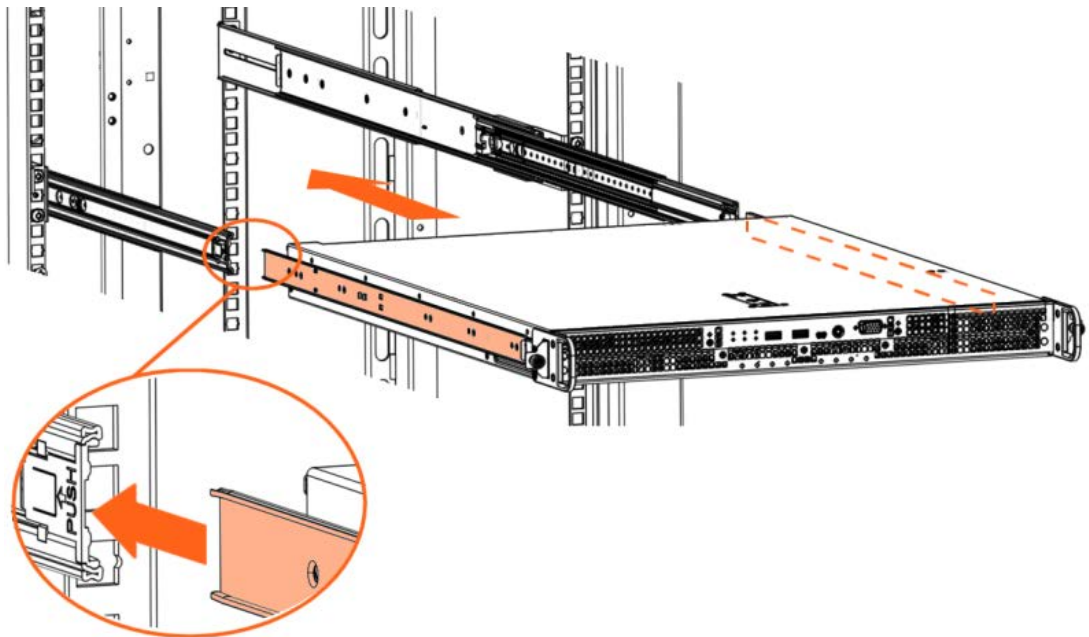
Two people are required to perform this operation.

1. Pull the middle rails out

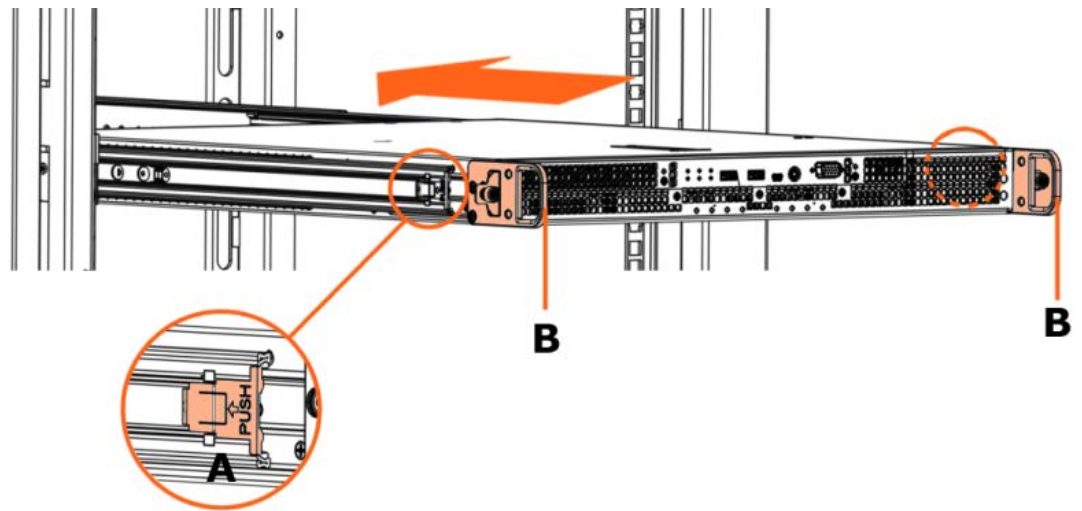


2. Slide the server into the middle rails

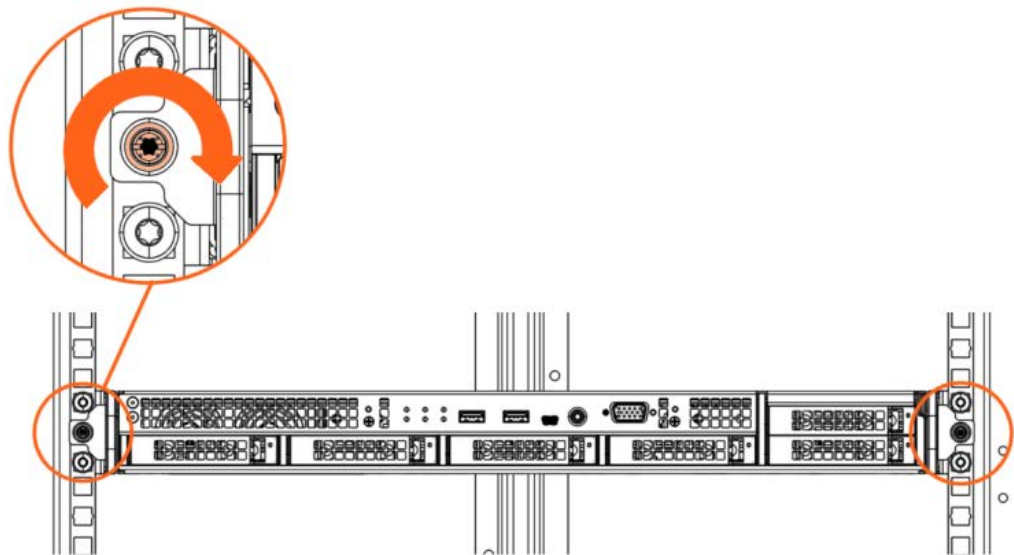
1. Using the inner rails attached to the server, slide the server into the middle rails.



2. When the rail assemblies click, push the release latch (A) on each side to allow the server to be pushed completely into the rack.



3. Secure the server into place








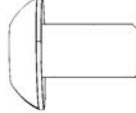


Tighten the captive screws to secure the server into place.



Appendix A. Screws, washers and nuts

This appendix lists all the screws, washers and nuts included in the delivery.



Screws

Mark	Head	Body	Diameter	Length	Description
S1			3 mm	4 mm	M3x4 Flat-headed screw
S2			3.5 mm	12 mm	Flat-head philip #6-32 screw
S3			3 mm	6.5 mm	M3x6.5 standard screw
S4			5 mm	8.5 mm	M5 button head torx screw

Washers

Mark	Head	Body	Diameter	Description
W1			5 mm	M5 Spring Lock Washer OD11

Nuts

Mark	Head	Body	Diameter	Description
N1			3.5 mm	Hex serrated flange locknut #6-32

