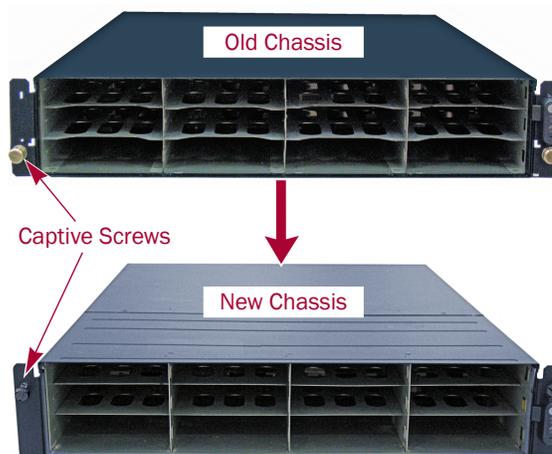# Spare Chassis Upgrade Instructions

This document describes how to swap out an older version of the SnapServer DX2 or SnapExpansion chassis (with the captive screws on the bottom of the side flanges) with a newer chassis (with the captive screws at the top of the side flanges).

⚠️ **WARNING:** To reduce the risk of electric shock or damage to equipment, always remove any power cords while working with the unit.

⚠️ **AVERTISSEMENT:** Pour réduire le risque de choc électrique ou endommagement de l'équipement, retirez toujours les cordons électriques en travaillant avec l'appareil.

⚠️ **CAUTION:** While working with the unit, observe standard Electrostatic Discharge (ESD) precautions to prevent damage to micro-circuitry or static-sensitive devices.
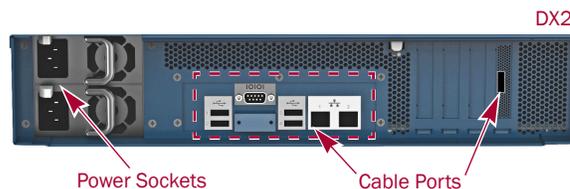

Old Chassis

Captive Screws

New Chassis

Prepare the Unit

Power Off and Disconnect

If the unit is still running, power it down cleanly:

1. Use the Web Management Interface to shutdown the server (**Maintenance > Reboot and Shutdown > Shutdown**).
2. When all the LEDs are off, disconnect the **power cords**.
3. Disconnect the remaining **cables** from the unit.

DX2

Power Sockets

Cable Ports

Remove the Front Bezel

Carefully take hold of the bezel and pull it straight out from the appliance until the magnets release.

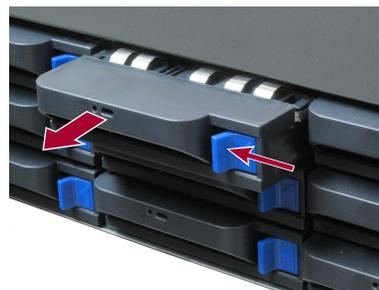Set it aside for **return** with the old chassis.

Remove All Carriers

➡️ **IMPORTANT:** Overland recommends that you remove the disk drives to lessen the unit's weight prior to removal.

NOTE: Do not remove the disk drives from their carriers. Doing so voids the drive warranty.

Remove all the carriers from the old chassis, both those with disk drives and blank (empty) ones, for transfer to the new chassis:

1. Press the release **button** on the right side of the carrier.
2. Using the built-in **handle**, pull the carrier out.
3. Set the **carrier** on a secure surface.
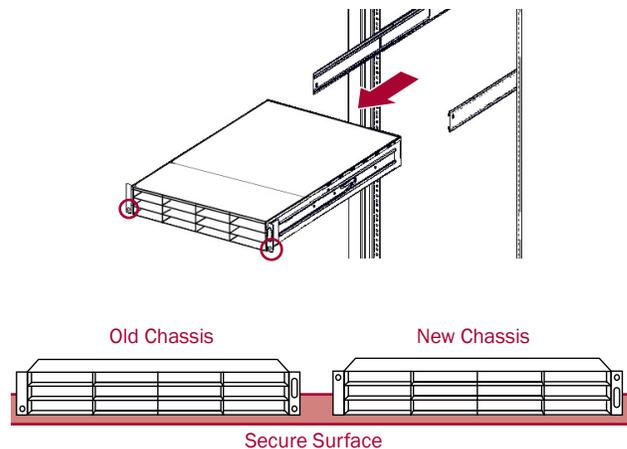4. Repeat Steps 1–3 for **all** the remaining carriers.

Remove Unit from Rack

⚠ **WARNING:** It is recommended that a mechanical lifter (or at least two people) be used during rack installation or removal to prevent injury.

⚠ **AVERTISSEMENT:** Pour éviter toute blessure il est recommande qu'un monte-charge (ou deux personnes au moins) soit utilisé lors de l'installation ou de l'enlèvement du support.

1. Release the two **captive screws** on the bottom of the front flanges, and slide the chassis out until it stops.
2. Release the rail **locks** and continue to slide the chassis out onto the lifter.
3. Move the old chassis onto a **secure surface**.
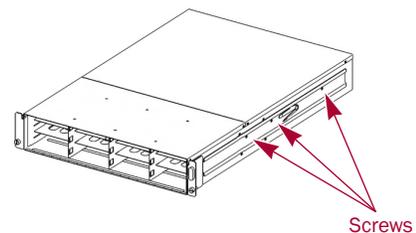4. Unpack the **new chassis** and place it next to the old one.

Old Chassis   New Chassis

Secure Surface

Update Rail Kit

Remove Old Rail Kit

NOTE: The new chassis requires a different rail kit than the old chassis used. A new rail kit is provided.

1. Remove the attached **inner slide rails** from the old chassis before packing it for return to Overland:
   a. Remove and discard the **three screws** holding a rail on the side of the old chassis, and set the rail aside.
   b. Repeat Step 1 for the **other rail**.
2. Remove the **old rails** from the rack. Discard all screws.
3. Insert the **inner rails** into the outer rails.

   Set the rails aside for **return** with the old chassis.
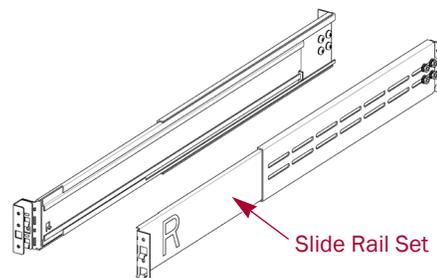
Install New Rail Kit

1. Use the steps from the included Quick Start Guide to install the **new inner rails** on the new chassis.
2. Use the steps from the included Quick Start Guide to install the **new outer rails** in the rack:
   a. Perform the *Attach the Inner Rail* steps.
   b. Perform the *Size the Outer Rails to Rack* steps.
   c. Perform the appropriate *Attach Outer Rails* steps.

      Steps vary based on the type of rack (Squared-holed, Threaded Round-holed, or Non-threaded Round-holed).
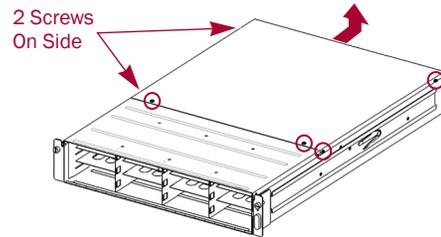
Screws

Old Inner Rail Side View

New Inner Rail Side View

Slide Rail Set

Move Parts to New Chassis

NOTE: The SnapExpansion does not have any internal parts to move. If replacing that chassis, continue with "Return Chassis to Rack."

Remove Top Panels

1. At the **old chassis**, remove and retain the **six screws** on the sides and top securing the rear top panel.
2. Slide the panel toward the rear about **one-half inch** (1.25cm), lift it off, and set it aside.
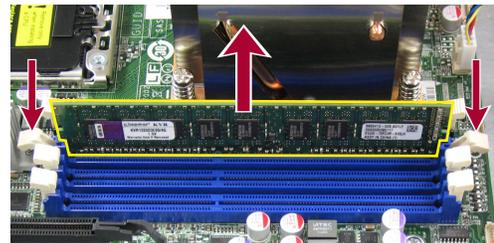3. Repeat Steps 1–2 for the **new chassis**.

Move All DIMMs

NOTE: Memory DIMMs must go into specific slots in a specific order. Failure to add the DIMM to the next slot in the order may result in the unit not recognizing the extra memory.

Older motherboards (with black-blue-blue-blue DIMM slots) came with a single DIMM in Slot 1. Additional DIMMs may have been added in the order shown (2, 3, and then 4).

Newer motherboards have blue-black-blue-black DIMM slots with DIMMs being added in the order shown (blue then black).
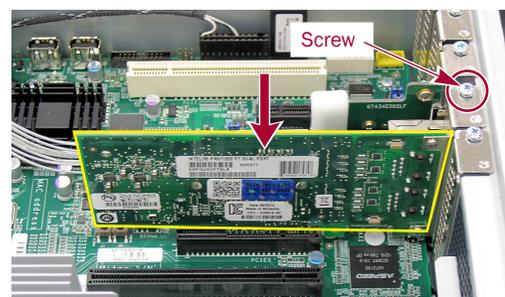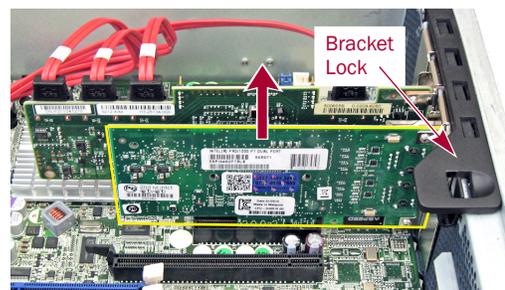
1. At the **new chassis**, press both **latches** down to open Slot 1.
2. Remove a DIMM in the **old chassis** by pressing the latches on each end and popping the DIMM out.
3. Position the DIMM in **Slot 1** of the **new chassis**, lining up the DIMM notch with the guide in the slot.
4. Firmly press the DIMM down until it **latches** locking it in place.
5. Repeat Steps 1–4 for any **other DIMMs** in the old chassis following the slot order.
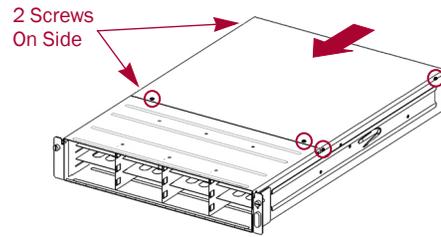
Move Optional PCIe Cards

NOTE: Do not move the SAS card from the old chassis; the new chassis has the connections built into the motherboard. However, if any optional cards were added, they need to be moved.

1. At the **old** chassis, along the top of the rear wall, release and lift the **bracket lock** holding the PCIe cards in place.
2. At the **new** chassis, locate an empty slot of the proper size for the card being moved and remove the **rear slot cover** retaining the screw.
3. At the old chassis, grasp the **card** and carefully pull it straight up and out of the slot.
4. At the **new** chassis, insert the **card** in the prepared slot, positioning the card bracket in the rear bracket slot.
5. Press down on the **card** until it is secured in the slot.
6. Use the **retained screw** to secure the bracket to the rear wall of the new chassis.
7. Repeat Steps 2–6 for any other optional cards.
8. At the **old** chassis, fold down and press the **bracket lock** until it locks (clicks) into place.
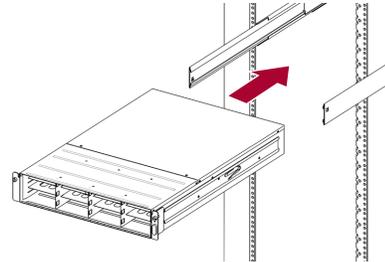
Reinstall Top Panels

1. At the new chassis, position its top panel in place with no more than **one-half inch** (1.25cm) extending out over the rear of the unit.

2. Slide the panel **forward** until it is fully seated.

3. Using the **six retained screws**, secure the panel.

4. Repeat Steps 1–3 for the **old chassis**.

2 Screws
On Side

Return Chassis to Rack

Install the Chassis

1. Pull the **middle** rails of the newly installed rail kit out of the rack.

2. Using the mechanical lifter, position the **chassis** in front of the rack rails.

3. Connect the server rails into the rack rails, and slide the **chassis** in all the way.

4. Secure the unit using the **two captive screws** on the top of the front flanges.
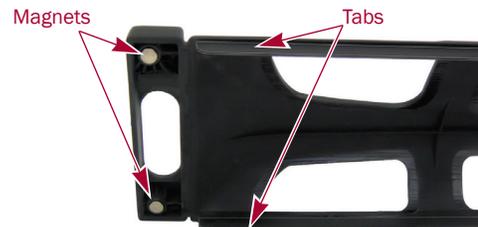
Reinstall the Carriers

1. Position a **carrier** in front of an empty slot.

2. Slide the carrier in until the **latch** clicks, locking it in the slot.

3. Repeat Steps 1–2 for **all** remaining carriers.

> IMPORTANT: To maintain proper airflow and cooling, a drive assembly or a blank carrier must be installed in *every* slot. No empty slots are allowed.
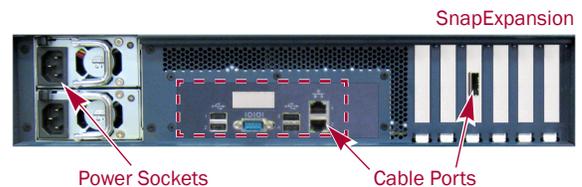
Attach the Bezel

1. Position the **new bezel** with the tabs aligned inside the top and bottom edges of the chassis.

2. Move the bezel toward the unit until the **magnets** make contact.

3. Verify that the bezel is properly **aligned** with all the LEDs visible and the Power Panel on the right side in line with the hole on the bezel flange.

Magnets   Tabs

Attach Cables and Power Cords

1. Reattach the data **cables** to the same connections previously used.

2. Attach the **power cords**.

3. At the front, press the **power switch** to power the unit ON.

SnapExpansion

Power Sockets   Cable Ports

Important – Read This Before Continuing

If the version of GuardianOS on the new chassis is different from the version on the disk drives, the appliance goes through a special initialization and synchronization process that can take up to **10 minutes** to complete. During this time, the Status LED flashes an alternating green and amber pattern.

Do NOT remove the power in this state.

Once initialization is complete, the system automatically reboots and the Status LED displays a solid green color.

If the GuardianOS versions are the same on both the chassis and drives, the appliance boots normally.

Status

⚠ CAUTION: Under no circumstances should power be removed while the system is in this state! Doing so may render the appliance inoperable.

Validate the System

Log onto the SnapServer Web Management Interface and verify your connections and settings. Check for flashing front LEDs indicating errors. Refer to the user guide to resolve.

NOTE: If the server was configured as an EDR master console, new licenses must be installed, as they are based on the server number.

If there are any problems, contact Overland Technical Support:
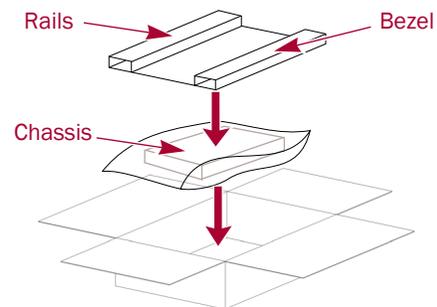
http://docs.overlandstorage.com/support

Return Old Parts to Overland

1. Place the **old chassis** in the anti-static bag and put it in the replacement part's box.

2. Place the **old bezel** and **old rail kit** (both inner and outer rails) in the top packing box

3. Put the **packing box** in the top of the shipping box.

4. Close and seal the **box**.

5. Use an **RMA** to return the parts to **Overland Storage**.

   For return shipping details and RMA number, go to:
   http://docs.overlandstorage.com/return-instructions

Rails   Bezel
Chassis

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