# Chassis Replacement Instructions

This document describes how to replace the chassis that uses the ACBEL power supply for either a SnapSAN S1000 storage array or a SnapDisk E1000 expansion array from Overland Storage.

> **IMPORTANT:** Replacement of S1000 chassis is an offline procedure requiring you to shutdown the array. Before you replace the S1000 chassis, make sure you have a good backup of your data.

> ⚠️ **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.

These instructions cover moving the key components such as drive assemblies, power supply modules, and controllers from the old chassis to the new one as part of the replacement procedure.

## Prepare the Unit

### Disconnect and Power Off

1. Power off the unit using a **normal shutdown**:
   - Front Panel Display:
     **Reset/Shutdown > Shutdown**.
   - Web Management Interface:
     **System Maintenance > Reboot and Shutdown > Shutdown**.
2. When the "System Shutdown" message is shown, move the **main power switch** to OFF (O).
3. Disconnect the **power cords** from the power supplies.
4. Disconnect all **data cables** from the unit.

S1000

PSU Socket   Main Power Switch   PSU Socket

### Remove the Bezel

1. Press the **release latch** toward the center.
2. Swing the right side of the **latch side** out about 2 inches (5cm).
3. Move the entire bezel toward the latch side to release the **tab** from the opposite flange and remove the bezel.
4. Set the **bezel** aside on a secure surface.

Front Panel Display

Tab   Latch

## Remove the Drives

> **IMPORTANT:** Overland recommends that you number the drive assemblies after removal. The assemblies must be reinstalled in the same bays when done.

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

This process applies to both drive and blank assemblies:

1. At the front of an assembly, press the **button** to release the assembly handle.
2. Use the **handle** to pull the assembly out.
3. **Number the assembly** and set it on an ESD surface.
4. Repeat Steps 1–3 for the **remaining** assemblies.

## 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 recommandé qu'un monte-charge (ou deux personnes au moins) soit utilisé lors de l'installation ou de l'enlèvement du support.

1. Position a **mechanical lifter** in front of the unit.
2. Carefully remove and retain the **three screws** from the front flanges.
3. Slide the **chassis** onto the mechanical lifter.
4. Move the unit to a **secure surface**.
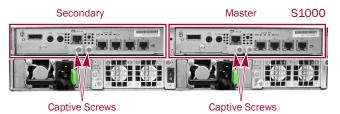5. Unpack the **new chassis** and place it next to the old chassis.
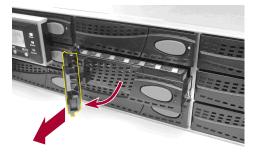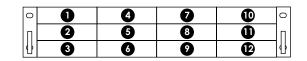
# Transfer Components

## Move Controllers

*NOTE: The SnapDisk E1000 SAS connection modules are installed the same way as the SnapSAN S1000 controllers.*
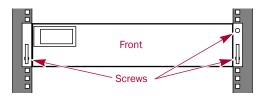
1. Loosen **two captive screws** securing the Master module.
2. Swing out the **levers** about 45° to release the module.
3. Pull the **controller** out and slide it into the same bay in the new chassis.
4. Swing the **levers** in toward the module to seat it.
5. Tighten **both captive screws** to secure it.
6. For the Secondary module or cover, **repeat** Steps 1–5.
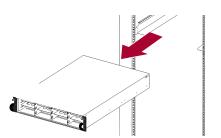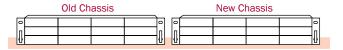
**Controller Module Locations**

## Move Power Supplies

1. Press the release **latch** to the left and, using the handle, pull the **module** out of the PSU cage.

2. Slide the module into the same cage in the **new chassis**, pushing it in until the latch clicks.

3. Repeat Steps 1–2 for the **other power supply**.



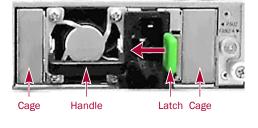Cage    Handle    Latch   Cage

# Install New Chassis

## Reinstall Unit in Rack

1. Use a mechanical lifter to position the **chassis** in front of its position in the rack.

2. Slide the chassis onto the **tray rails** and to the back until it stops.

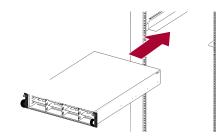3. Using the retained screws in the **front flange** holes, secure the chassis to the vertical rack rails.



## Install Drives

This process applies to both drive and blank assemblies:

1. Press the **button** to release the assembly lever.

2. With the button on the right, position the **assembly** in front of the **same bay** it was removed from.

3. Slide the **assembly** into the bay until resistance is felt.

4. Push the **lever** in to lock the assembly in the bay.

5. Repeat Steps 1–4 for **each** remaining assembly.



Slide in Drive

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



Secure Latch

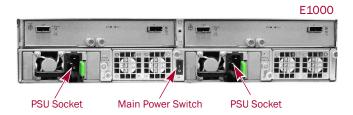## *Attach the Bezel*

1. Insert the **bezel tab** into the chassis left flange hole under the Front Panel Display.

2. Push the **latch** toward the bezel center, swing the right side of the bezel into place against the drives, and release the latch.



Front Panel Display

Tab                                   Latch

## Attach Cables and Power Cords

1. Reattach **all the cables** (except power cords) to the same connections previously used.

2. Attach the power cords in the **power supply** sockets on the rear panel.

3. Turn the **power switch** ON ( | ).



E1000

PSU Socket     Main Power Switch     PSU Socket

# Complete the Exchange

## Validate the System

Because the same modules are used, the settings should still be the same. Log onto the system and verify both the connections and settings. Check the Front Panel Display and LEDs for errors.
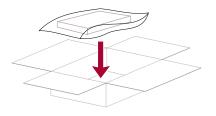
If there are any problems, contact Overland Technical Support.

## Return Old Part to Overland

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

2. Use an RMA to return the part to **Overland Storage**.

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

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