

HP c7000 Server HW Replacement

Cloud Execution Environment

OPERATING INSTRUCTIONS

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1 Introduction

The procedure described in this instruction is part of a complex procedure. Only perform the steps in this document if it is referred from another instruction or a work order is received.

The document provides hardware specific instructions on how to replace a server in a version 1.1 HP c7000 based Cloud Execution Environment (CEE).

1.1 Scope

This document describes how to replace a server in the certified hardware configuration of the CEE, version 1.1 HP BladeSystem c7000, that contains up to three enclosures and 48 slots for servers.

1.2 Prerequisites

This section provides information on the documents, tools, and conditions that apply to the procedure.

1.2.1 Documents

Before starting this procedure, ensure that the following documents have been read and understood:

- *Personal Health and Safety Information*
- *System Safety Information*

The following document is referred and used in this procedure:

- *HP c7000 Server BIOS Configuration*

The document contains further prerequisites.

1.2.2 Tools

The following tools are needed:

- An Electrostatic Discharge (ESD) wrist strap (part number LYB 250 01/14)

1.2.3 Data

No data are needed.



1.2.4 Conditions

Before starting this procedure, ensure that the following conditions are met:

- A work order for the replacement is received or the document is referred from another procedure.
- The new server is available and it has been verified visually that the new server is undamaged.
- All keys to the site are available and site access is granted.

2 Procedure

This procedure describes how to replace a server.

The procedure contains the following activities:

1. Removing the faulty server, see Section 2.1 on page 2
2. Hardware installation of the new server, see Section 2.2 on page 4
3. Concluding Routine, see Section 2.3 on page 6

Start the procedure with Section 2.1 on page 2.

2.1 Removing the Faulty Server

Do the following:

1. Wait until the server completely stops.



Warning!

High energy levels are present in this unit. Improper handling of the unit can lead to short circuits that can result in serious injury. Exercise care when working with this unit.



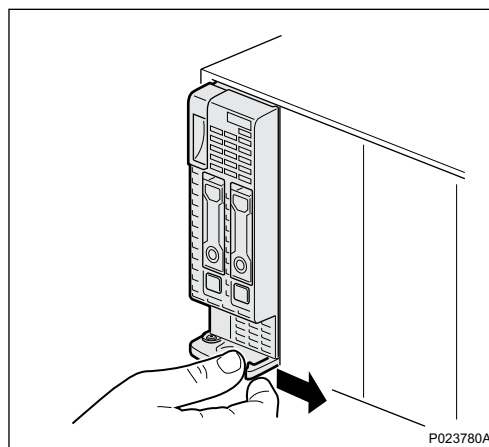
2. Locate the faulty server. The IDs of the shelf and the slot are contained by the name of the faulty host indicated in the relevant *Compute Host Failed* alarm, in the following format: `compute-<shelf_id>-<blade_id>`
3. Put the ESD wrist strap on your wrist and connect the cable to the grounding point.



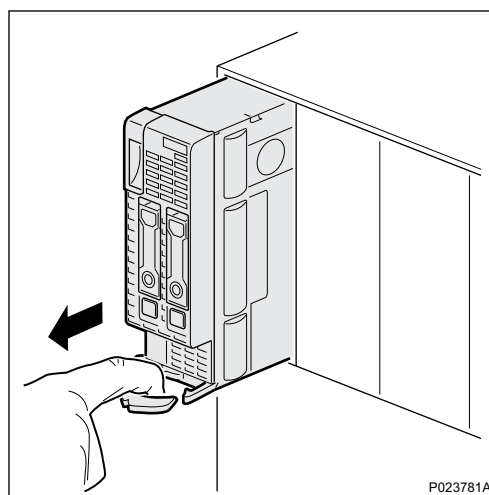
Do!

Use an ESD wrist strap to avoid damage to components mounted on printed board assemblies.

4. Open the latch by moving the latch to the right.



5. Pull out the unit by using the handle



6. Put the removed server in an ESD bag.



7. Handle the removed unit according to company procedures regarding repair and data security. Sensitive data can present on the disk.
8. Continue with Section 2.2 on page 4

2.2 Hardware Installation of the Server

Hardware installation of the new server includes the following activities:

- Physical installation of the server or servers, see Section 2.2.1 on page 4
- Configuration of server BIOS settings, see Section 2.2.2 on page 6

Start the procedure with Section 2.2.1 on page 4.

2.2.1 Physical Installation of the Server



Warning!

High energy levels are present in this unit. Improper handling of the unit can lead to short circuits that can result in serious injury. Exercise care when working with this unit.

Do the following:

1. Ensure that the ESD wrist strap is on your wrist and the cable is connected to the grounding point.

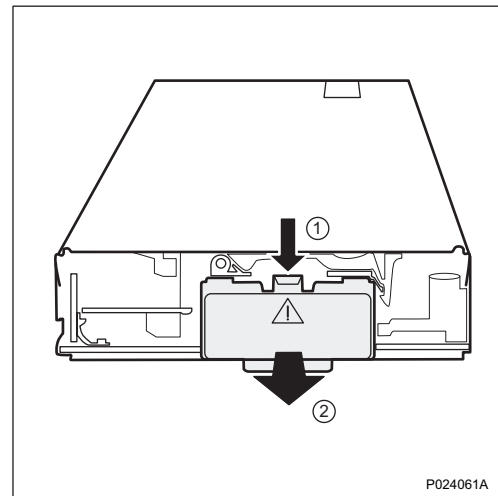


Do!

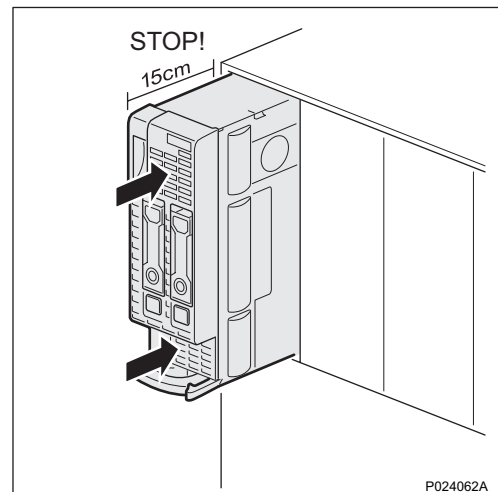
Use an ESD wrist strap to avoid damage to components mounted on printed board assemblies.



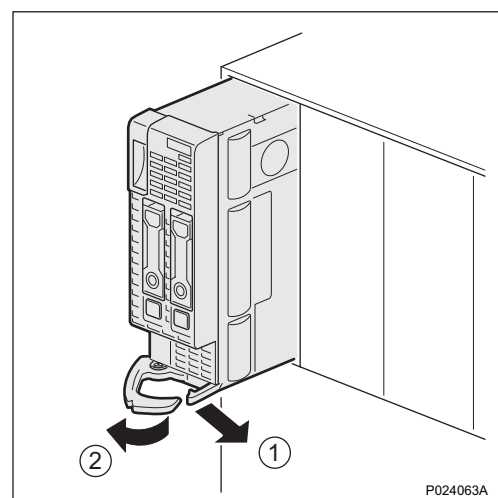
2. Remove the back connector cover from the server by pushing the release latch and pulling the cover.



3. Insert and push the server into the slot carefully but stop before the server reaches the backplane.

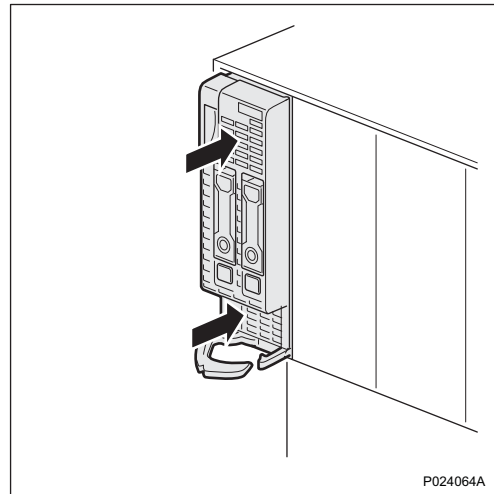


4. Open the latch by moving it to the right and open the handle.

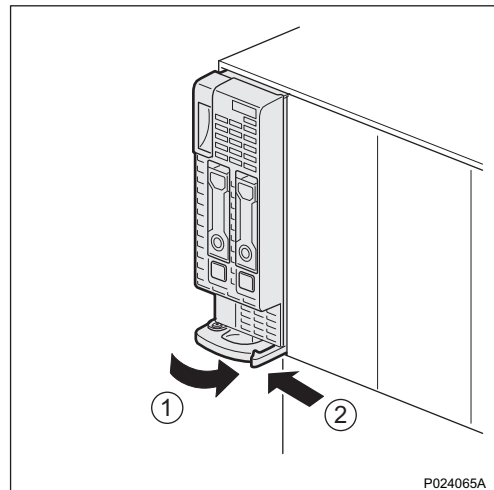




5. Push the server carefully to connect the backplane connector.



6. Shut the handle to fix the server in the slot. Ensure that the latch is closed.



7. Continue with Section 2.2.2 on page 6:

2.2.2 Configuring Server BIOS Settings

Do the following:

1. Refer to *HP c7000 Server BIOS Configuration* and perform the provided steps for configuring the HW settings.
2. Continue with Section 2.3 on page 6.

2.3 Concluding Routine

Do the following:

1. Collect all tools and equipment.



2. Report that the server has been replaced.
3. Handle the removed unit according to company procedures regarding repair and data security.

Note: Sensitive data may be present on the disk.

4. Carry out any remaining actions according to the work order, if applicable.
5. If this document was referred from another instruction, get back to the referring procedure.
6. The job is completed.