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# Safety Guide

*Operate Cohesity products safely and securely*

## **ABSTRACT**

*This guide contains the safety and operating instructions you must follow while using Cohesity hardware to reduce the risk of bodily injury, electric shock, fire, and damage to the equipment.*

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## Safety







### Safety Information



Retain and follow all safety and operating instructions provided with your equipment. If there is a conflict between the instructions in this guide and the instructions in the equipment documentation, follow the guidelines in the equipment documentation.

Observe all the warnings on the product and in the operating instructions. To reduce the risk of bodily injury, electric shock, fire, and damage to the equipment, observe all precautions included in this guide. You must become familiar with the safety information in this guide before you install, operate, or service Cohesity products.

### Symbols on Equipment

The following safety symbols may be marked on the product and/or product packaging.

SYMBOL	DEFINITION
	<b>Caution:</b> This symbol indicates a potential hazard. The potential for injury exists if caution is not observed. Consult equipment documentation for specific details.
	<b>Caution:</b> This symbol indicates the presence of hazardous energy circuits or electric shock hazards. Refer all servicing to qualified personnel.
	<b>Caution:</b> Disconnect all power sources.
	<b>Caution:</b> If you touch this surface, the potential for injury exists. Allow the surface to cool before touching to reduce the risk of injury from a hot component.
	<b>Caution:</b> Hazardous moving parts. Keep away from moving fan blades.
	<b>Caution:</b> Slide-mounted equipment should not be used as a shelf or a workspace.

SYMBOL	DEFINITION
	<p><b>Caution:</b> Unplug all AC power cords(s) to disconnect AC power.</p>
	<p>For information about the disposal of Waste Electrical and Electronic Equipment (WEEE), please refer to the WEEE section of this document.</p>

## General Precautions

- Follow all caution and warning instructions marked on the equipment and explained in the accompanying equipment documentation.
- If the equipment is damaged during service, disconnect the product from all power sources and refer servicing to a Cohesity authorized service provider.

## Machine Room Environment

- This "Equipment is intended for installation in Restricted Access Area."  
("Les matériels sont destinés à être installés dans des EMBLEMES À ACCÈS RESTREINT")
- This "Equipment is suitable for installation in Information Technology Rooms in accordance with Article 645 of the National Electrical Code and NFPA 75."  
("Peut être installé dans des salles de matériel de traitement de l'information conformément à l'article 645 du National Electrical Code et à la NFPA 75")
- Make sure that the area where you install the equipment is adequately ventilated and climate-controlled.
- Ensure that the voltage and frequency of your power source match the voltage and frequency inscribed on the electrical rating label of the equipment.
- Do not install the equipment in or near a plenum, air duct, radiator, or heat register.
- Never use the equipment in wet or outdoor locations.

## Chassis

- Do not block or cover the openings to the equipment.
- Do not insert any objects through the equipment's openings as high voltages may be present and pose a danger to users.

- Conductive foreign objects can produce a short circuit and cause fire, electric shock, or damage to your equipment.
- Lift equipment using both hands and with your knees bent.

## Equipment Racks

To avoid injury or damage to the equipment:

- Observe local occupational health and safety requirements and guidelines for manual materials handling.
- Do not attempt to move a rack by yourself, at least two people are needed to move a rack.
- Do not attempt to move a fully loaded rack. Remove equipment from the rack before moving the rack.
- Do not attempt to move a rack on an incline that is greater than 10 degrees from the horizontal surface.
- Make sure the rack is properly secured to the floor or ceiling.
- Make sure the stabilizing feet are attached to the rack if it is a single-rack installation.
- Make sure racks are coupled together if it is a multiple-rack installation.
- Make sure the rack is level and stable before installing any equipment in the rack.
- Make sure the leveling jacks are extended to the floor.
- Make sure the full weight of the rack rests on the leveling jacks.
- Always load the rack from the bottom up. Load the heaviest component in the rack first.
- Make sure the rack is level and stable before pulling a component out of the rack.
- Make sure only one component is extended at a time. A rack might become unstable if more than one component is extended.

To avoid damage to the equipment:

- The rack width and depth must allow for proper serviceability and cable management.
- Ensure that there is adequate airflow in the rack. Improper installation or restricted airflow can damage the equipment.
- The rack cannot have solid or restricted airflow doors. You must use a mesh door on the front and back of the rack or remove the doors to ensure adequate airflow to the system.
- Make sure equipment is properly secured to the rails. Equipment that is improperly secured to the rails might be unstable.
- Verify that the AC power supply branch circuit that provides power to the rack is not overloaded. Proper power reduces the risk of personal injury, fire, or damage to the equipment. The total rack load should not exceed 80 percent of the branch circuit rating. Consult the electrical authority having jurisdiction over your facility's wiring and installation requirements.

## Power Cords

- Use only the power cords and power supply units provided with your equipment.  
Make sure to use a power cord that is rated for the equipment and matches the voltage and current indicated on the electrical rating label of the equipment. The voltage and current rating of the power cord should be higher than the voltage and current rating marked on the equipment.
- Plug the power cord into a grounded (earthed) electrical outlet that is always easily accessible.
- In all European electrical environments, you must ground the Green/Yellow tab on the power cord. If you do not ground the Green/Yellow tab, it can cause an electrical shock due to high leakage currents.
- Do not place objects on AC power cords or cables. Arrange them so that no one might accidentally step on or trip over them.
- Do not pull on a cord or cable. When unplugging from the electrical outlet, grasp the cord by the plug.
- To reduce the risk of electrical shock, disconnect all power cords before servicing the equipment.

## Batteries

- The equipment battery contains Lithium Manganese Dioxide. If you do not handle the battery pack properly, there is a risk of fire and burns.
- "CAUTION: Risk of explosion if battery is replaced by an incorrect type. Dispose the used batteries according to the instructions."
- ("ATTENTION: Risque d'explosion si la batterie est remplacée par un type incorrect. Mettre au rebus les batteries usagées selon les instructions. ")
- Replace the battery only with a spare designated for your equipment.
- Do not disassemble, crush, puncture, short external contacts, or dispose of the battery in fire or water.
- Do not expose the battery to temperatures higher than 60°C (140°F).
- If you replace the battery with an incorrect type, there is a danger of explosion. Replace the battery only with a spare designated for your equipment.
- Do not attempt to recharge the battery.
- Dispose of used batteries according to the manufacturer's instructions. Do not dispose of batteries with general office waste. Use a public collection site or return them to Cohesity, your authorized Cohesity partner, or their agents for recycling or proper disposal.

## Equipment Modifications

- Do not make electrical or mechanical modifications to the Cohesity equipment. Cohesity is not responsible for the regulatory compliance status of equipment that has been modified.
- Cohesity supports all hardware that is qualified and sold by Cohesity. Any modification or replacement of hardware, including but not limited to mechanical chassis, power supply units, power cords, network interface cards, pluggable transceivers, cabling, memory modules, storage devices, and any other sub-assemblies not qualified or sold by Cohesity is not officially supported. Cohesity assumes no responsibility or liability, in whole or in part, for any performance degradations, cessation of operation, mechanical/electrical defects, failures, personal or bodily injury (including death), or property damages associated with any hardware not qualified or sold by Cohesity.

## Equipment Repairs and Servicing

- The installation of internal options and routine maintenance and service of this equipment should be performed by individuals knowledgeable about the procedures, precautions, and hazards associated with equipment containing hazardous energy levels.
- Only a skilled person can remove the chassis covers to access the inside of the system.
- Do not exceed the level of repair specified in the procedures in the product documentation. Improper repairs can create a safety hazard.
- The power supply in the equipment contains no user-serviceable parts. Do not open the power supply. Hazardous voltage, current, and energy levels are present inside the power supply. Return to the manufacturer for servicing.
- Remove all watches, rings, or loose jewelry when working before removing covers and touching internal components.
- Do not use conductive tools that could bridge live parts.
- Use gloves when you remove or replace internal components; they can become hot to the touch.
- If the equipment sustains damage requiring service, disconnect the equipment from the AC electrical outlet and refer servicing to an authorized service provider. Examples of damage requiring service include:
  - The power cord, extension cord, or plug has been damaged.
  - Liquid has been spilled on the equipment or an object has fallen into the product.
  - The equipment has been exposed to rain or water.
  - The equipment has been dropped or damaged.
  - The equipment does not operate normally when you follow the operating instructions.

**NOTE:** To reduce the risk of electrical shock, disconnect all the power cords before servicing the equipment.

## Laser Devices

To reduce any risk, including radiation exposure, follow these precautions when working with laser devices:

- Avoid direct exposure to the laser beam. Do not open the laser device enclosure. There are no user-serviceable components inside.
- Do not operate controls, make any adjustments, or perform procedures to the laser device other than those specified herein.
- Allow only authorized service technicians to repair the laser device.

## Elevated Operating Ambient Temperature

- If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than the room ambient temperature. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient operating temperature (TMA) specified by the manufacturer.

## Reduced Airflow

- Installation of the equipment in a rack should be such that the amount of airflow required for the safe operation of the equipment is not compromised.

## Mechanical Loading

- Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

## Circuit Overloading

- Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on over-current protection and supply wiring. Use appropriate consideration of equipment name-plate ratings when addressing this concern.

## Redundant Power Supply

- To provide a fully redundant power supply, connect each power cord to a separate AC circuit. Each power cord requires adequately grounded (earthed) connections.

## Reliable Earthing

- Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (for example, power strips).



## Connecting Earth Ground to Equipment

**WARNING:** If the equipment has a separate protective earthing terminal on the chassis, it must be permanently connected to earth ground to adequately ground the chassis and protect the operator from electrical hazards. .

Power installation must be performed by a qualified electrician in accordance with National Electrical Code ANSI/NFPA 70 and Canadian Electrical Code Part I, CSA C22.1.

To connect earth ground to equipment (where applicable):

1. Connect one end of the grounding cable to a proper earth ground.
2. Place the ground lug attached to the ground cable over the protective earthing terminal.
3. Secure the grounding lug to the protective earthing terminal with washers and screws.
4. Dress the grounding cable and ensure that it does not touch or block access to other components.

**WARNING:** Before powering on the equipment, connect the frame of the equipment to the earth. For earthing wire, green and yellow insulation is required, and the cross-sectional area of the conductor must be more than 0.75mm<sup>2</sup> or 18 AWG.

## Electrostatic Discharge (ESD)

When handling any electronic component or assembly, you must observe the following antistatic precautions to prevent damage.

- Always disconnect power from the equipment and wear a grounded wrist strap when working around the equipment.
- Always wear a grounded wrist strap when handling printed circuit boards.
- Treat all assemblies, components, and interface connections as static sensitive.
- Avoid working in carpeted areas and keep body movement to a minimum while removing or installing boards to minimize buildup of static charge.

## Replaceable Battery

Dispose the used batteries as per the instructions.

**CAUTION:** There is a risk of explosion if the battery is replaced with the incorrect type.

## Regulatory Approval

**WARNING:** Operation of the device without regulatory approval is illegal.

## Your Feedback

Was this document helpful? [Send us your feedback!](#)

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1.0	Apr 2024	Original Document

# ABOUT COHESITY

[Cohesity](#) is a leader in AI-powered data security and management. Aided by an extensive ecosystem of partners, Cohesity makes it easier to protect, manage, and get value from data – across the data center, edge, and cloud. Cohesity helps organizations defend against cybersecurity threats with comprehensive data security and management capabilities, including immutable backup snapshots, AI-based threat detection, monitoring for malicious behavior, and rapid recovery at scale. Cohesity solutions are delivered as a service, self-managed, or provided by a Cohesity-powered partner. Cohesity is headquartered in San Jose, CA, and is trusted by the world's largest enterprises, including six of the Fortune 10 and 42 of the Fortune 100.

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