

Cisco TelePresence MCU 4500 Series safety and compliance information

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Safety information symbols



A note provides information which you should consider.



A caution carries information about procedures or events which if not considered may cause damage to the data or hardware of your system.



A warning carries information about procedures, which must be followed to reduce the risk of electric shock and danger to personal health.



The book symbol, where it appears on the unit, indicates that you must read the manual (this safety information and the Getting Started Guide that accompanied the unit).

Operating guidelines

- Risk of electrical shock if opened. Never operate with cover removed.
- No user serviceable parts.
- Only trained and qualified personnel should install or replace this equipment.
- Rack mount instructions must be followed.

Safety warnings

- Only trained and qualified personnel should be allowed to install or replace this equipment
- Read the installation instructions in the Cisco TelePresence MCU 4500 Series Getting Started Guide that accompanied the unit before you connect the system to its power source.
- Caution: Risk of explosion if internal battery is replaced by an incorrect type. Dispose of used batteries according to local regulations.



Never defeat the earth (ground) conductor or operate the equipment in the absence of a suitably installed earth conductor. Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable earthing is available.

- The plug-socket combination must be accessible at all times because it serves as the main disconnecting device
- Ultimate disposal of this product should be handled according to all national laws and regulations.



Unplug the power cord before working on this system, since it does not have an On/Off switch.



Do not operate the unit with the cover removed. Operating the unit without the cover in place will invalidate the safety approvals and pose a risk of fire and electrical hazards.



Do not work on the system or connect or disconnect cables during periods of lightning activity.



To avoid electric shock, do not connect safety extra-low voltage (SELV) circuits to telephone-network voltage (TNV) circuits. LAN ports contain SELV circuits, and WAN ports contain TNV circuits. Some LAN and WAN ports both use RJ-45 connectors. Use caution when connecting cables.



This equipment is to be installed and maintained by service personnel only as defined by AS/NZS 60950 Service Person.



Ensure that the voltages and frequency rating of your power source match the voltage and frequency inscribed on electrical rating label attached to the equipment.



Never push objects of any kind through openings in the equipment. They may touch dangerous voltage points or short components, resulting in fire, electric shock, or damage to your equipment



To prevent bodily injury when mounting or servicing this unit in a rack, you must take special precautions to ensure that the system remains stable. The following guidelines are provided to ensure your safety:

- This unit should be mounted at the bottom of the rack if it is the only unit in the rack
- When mounting this unit in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack
- If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the unit in the rack



If the Cisco MCU 4500 is installed in a closed or multi-unit rack assembly, the ambient temperature may be greater than the room ambient temperature, therefore consideration should be given to installing the unit in an environment compatible with the maximum rated ambient temperature specified in the [Operating Environment](#) section below.



The installation of the Cisco MCU 4500 in a rack should be such that the amount of air flow required for safe operation is not compromised.



The Cisco MCU 4500 uses side-to-side cooling fans. Allow an adequate space to promote a good air flow for cooling of the product. Allow the same distance for installation and servicing. Do not block the fan inlet or outlet. Ensure that the fan intake is not placed inline with the outlet from any other fan or convection cooled device.

Modifications to equipment



Because of the danger of introducing additional hazards and/or the possibility of compromising emissions compliance, do not install substitute parts or perform any unauthorized modification of the equipment. Contact your local support organization for service and repair to ensure that safety features are maintained.

Cisco is not responsible for regulatory compliance of a modified Cisco product.

Technical specifications

Power requirements

Table 1: Cisco MCU 4500 ratings

Rating	Value
Nominal voltage	115V to 230V 50/60 HZ
Current rating	6A maximum

Rating	Value
Supply voltage range	100 to 240V 50/60 Hz

Over-current protection

Ensure a branch circuit protector rated by a maximum of 20A protects the supply to this unit.



Over-current devices must meet applicable national and local electrical safety codes and be approved for the intended application.

Operating environment

The Cisco MCU 4500 is for indoor controlled environment use only.

The unit must only be used within the following environmental conditions:

Table 2: Operating environment

Environment	Temperature	Humidity
Operating environment	0°C to 35°C	10% to 95% (non-condensing)
Non-operating environment	-10°C to 60°C	10% to 95% (non-condensing)
Optimum operating environment	21°C to 23°C	45% to 50% (non condensing)

Compliance information

USA — Electromagnetic Compatibility Information

System Classes

In the United States, the Federal Communications Commission (FCC) governs the levels of electromagnetic emissions from a digital device. Electromagnetic emissions can interfere with radio and television transmission. To reduce the risk of harmful interference, the FCC has established requirements for manufacturers of digital devices.

FCC statement

FCC Class A

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.

European Union Notice

The Declaration of Conformity is available on request.

Products with the CE marking comply with the protection requirements of the following EU Directives:

- EMC Directive 2004/108/EC by application of the harmonized standard.



This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures to correct this interference.

- Low Voltage Directive 2006/95/EC, by application of the harmonized standard.

To ensure compliance

To ensure compliance, the system must be reliably connected to earth using the unit's earth terminals.

Canada — Electromagnetic Compatibility Information

Communications Canada (i.e., the Department of Communications) regulates digital devices similar to the FCC in the United States. Every product should be labeled or provided with documentation that states the class of the product. The DOC defines the environment in which a digital device should be used as the FCC does. Products labeled DOC Class A are for an industrial or a commercial area.

The unit is DOC Class A and should not be used in a residential area. An end-user in Canada is responsible for ensuring that his system is suitable for its environment as stated in the above paragraph.

ICES-003 Class A Notice

This Class A digital apparatus complies with Canadian ICES-003.

Finland

Laite on liitettävä suojamaadoitus-koskettimilla varustettum pistorasiaan.

Norway

Apparatet må tilkoples jordet stikkontakt.

Sweden

Apparaten skall anslutas till jordat uttag.

WEEE information

For all the regulations relating to product end of life please adhere to information located on the following web site <http://cisco-returns.com>.

VCCI statements

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

VCCI-A