

# Cisco Access Server 5100 Public Network Certification

This document provides international regulatory and safety compliance information for the Cisco Access Server 5100 product. Use this publication with the *Cisco Access Server 5100 User Guide* and as an addendum to the *Router Products Getting Started Guide*.

This document contains the following sections:

- Safety Information for the Cisco Access Server 5100
- Connecting to the Telephone Company
- IC (Industry Canada)
- U.S. Robotics High Speed Modems Load Number: 5
- Canadian Installations
- Operating Conditions for the European Community
- Operating Conditions for the United Kingdom
- Operating Conditions for the FCC
- Agency Approvals
- Cisco Connection Online

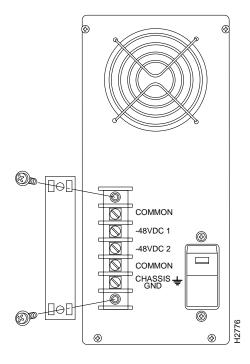
#### Safety Information for the Cisco Access Server 5100

All the following statements are warnings or safety guidelines. A warning means *danger*. You are in a situation that could cause bodily injury. Before working on equipment, be aware of the hazards involved with electrical circuitry and standard safety practices to prevent accidents.

- The ports marked, "UTP," "CON," and "AUX" are Safety Extra Low Voltage (SELV) circuits. SELV circuits should only be connected to other SELV circuits.
- Before opening the chassis, disconnect the telephone-network cables to avoid contact with telephone-network voltages.
- Do not work on the system or connect or disconnect cables during periods of lightning activity.
- Do not touch the power supply when the power cord is connected. For systems with a power switch, line voltages are present within the power supply even when the power switch is OFF and the power cord is connected. For systems without a power switch, line voltages are present within the power supply when the power cord is connected.
- Refer to the installation guide instructions before you connect the system to its power source.
- Before working on a chassis or working near power supplies, unplug the power cord on AC units or disconnect the power at the circuit breaker on DC units.
- This product relies on the building's installation for short-circuit (overcurrent) protection. Ensure that a fuse or circuit breaker no larger than 120 VAC, 15A U.S. (240 VAC, 10A international) is used on the phase conductors (all current-carrying conductors).
- The device is designed to work with TN power systems.
- This warning applies only to units equipped with DC input power supplies. This unit is intended to be installed in restricted access areas, and all power cabling should be reliably restrained to avoid accidentally disturbing the power connections.
- This warning applies only to units equipped with DC input power supplies. When stranded wiring is required, use approved wiring terminations, such as closed-loop or spade-type with upturned lugs. These terminations should be the appropriate size for the wires and should clamp both the insulation and conductor.
- This warning applies only to units equipped with DC input power supplies. Before performing any of the following procedures, ensure that power is removed from the DC circuit. To ensure that all power is OFF, locate the circuit breaker on the panel board that services the DC circuit, switch the circuit breaker to the OFF position, and tape the switch handle of the circuit breaker in the OFF position.

• This warning applies only to units equipped with DC input power supplies. Figure 1 shows the Cisco Access Server 5100 DC power supply terminal block. Wire the DC power supply using the appropriate lugs at the wiring end as shown in Figure 1 (remove the terminal cover first). The proper wiring sequence is ground to ground, positive to positive (line to L), and negative to negative (neutral to N). Note that the ground wire should always be connected first and disconnected last. After attaching the wires install the terminal cover.

#### Figure 1 DC Input Power Supply Connections



• This warning applies only to units equipped with DC input power supplies. After wiring the DC power supply, remove the tape from the circuit breaker switch handle and reinstate power by moving the handle of the circuit breaker to the ON position.

#### **Connecting to the Telephone Company**

The telephone company may request the telephone number (or numbers) to which the equipment is to be connected.

If a modem is malfunctioning, it may affect the telephone lines. In this case, the modem should be disconnected until the source of the difficulty is traced.

If the telephone company has any questions or raises problems, ask them to call Cisco Systems.

#### IC (Industry Canada)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the radio interference regulations of Industry Canada (formerly Canadian Department of Communications).

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de classe A prescrites dans les réglementations sur le brouillage radioélectrique promulguées par Industrie Canada (précédemment Ministère des Communications du Canada).

#### **U.S. Robotics High Speed Modems Load Number: 5**

The Load Number (LN) assigned to each terminal device denotes the percentage of the total load connected to the telephone loop used by the device, without overloading. The termination on a loop may consist of any combination of devices, subject only to the requirement that the total of the Load Numbers of all the devices not exceed 100. An alphabetic suffix is also specified in the Load Number for the appropriate ringing type (A or B), if applicable. For example, LN = 41B designates a Load Number of 41 and a B-type ringer.

#### **Canadian Installations**

The Industry Canada (IC) or Canadian Department of Communications (DOC) label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational, and safety requirements. The department does not guarantee the equipment will operate to the purchaser's satisfaction.

Before installing this equipment, make sure connection to the facilities of the local telecommunications company is permitted. Install the equipment using an acceptable method. Be aware, however, that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by a user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

For protection, make sure that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.



**Warning** Do not attempt to make such connections; contact the appropriate electric inspection authority or electrician.

### **Operating Conditions for the European Community**

All warnings and safety guidelines listed in "Safety Information for the Cisco Access Server 5100" apply to Cisco Access Server 5100 models used in the European Community.

## **Operating Conditions for the United Kingdom**

In addition to the warnings and safety guidelines listed in "Safety Information for the Cisco Access Server 5100," the following warnings apply to Cisco Access Server 5100 models used in the United Kingdom:

- The Cisco Access Server 5100 is designed to meet the requirements of NET1 and NET2 for products with serial interfaces.
- Interconnection directly, or by way of other apparatus, of ports marked:

"Safety Warning - See instructions for use"

with ports marked or not so marked may produce hazardous conditions on the network, and advice should be obtained from a competent engineer before such a connection is made.

• The ports marked "UTP," "Console," and "AUX," have a safety warning applied to them as follows:

"These ports do not provide isolation sufficient to satisfy the requirement of EN60950:1993; apparatus connected to these ports should either have been approved to EN60950:1993 or have previously been evaluated against British Telecommunications plc (Post Office) Technical Guides 2 or 26 and given permission to attach; any other usage will invalidate any approval given to this apparatus."

Other usage will invalidate any approval given to this apparatus if as a result it ceases to comply with EN60950:1993.

- This apparatus must be connected to a main socket outlet with a protective earth contact.
- Connection of power supply: The Cisco Access Server 5100 is intended for use when supplied with power from a supply providing 220–240 VAC, 50/60 Hz, up to 5A.

### **Operating Conditions for the FCC**

The following text is required for Federal Communications Commission (FCC) Part 68 regulatory compliance:

This equipment complies with Part 68 of the FCC rules. On the side of this Network Module interface card is a label that contains, among other information, the FCC registration number. If requested, this information must be provided to the telephone company.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. If advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your the right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment, please contact:

Cisco Systems, Inc. RMA Receiving 1135 Walsh Avenue Santa Clara, California 95050

For repair and (or) warranty information. If the trouble is causing harm to the telephone network, the telephone company may request that you remove the equipment from the network until the problem is resolved.

It is recommended that the customer install an AC surge arrestor in the AC outlet to which this device is connected. This is to avoid damaging the equipment caused by local lightning strikes and other electrical surges.

The Cisco AS52-2CT1 has the 6.0F service order cable.

The unit has the following facility interface codes: 04DU9-BN, 04DU9-DN, 04DU9-IKN, 04DU9-ISN.

#### Agency Approvals

- Safety: UL 1950, CSA 950, EN60950, TUV-GS mark
- EMI: FCC Class A, VDE Class B, Canadian DOC Class A, EN55022 Class B (CISPR22 B), VCCI Class 2

#### **Cisco Connection Online**

Cisco Connection Online (CCO) is Cisco Systems' primary, real-time support channel. Maintenance customers and partners can self-register on CCO to obtain additional information and services.

Available 24 hours a day, 7 days a week, CCO provides a wealth of standard and value-added services to Cisco's customers and business partners. CCO services include product information, product documentation, software updates, release notes, technical tips, the Bug Navigator, configuration notes, brochures, descriptions of service offerings, and download access to public and authorized files.

CCO serves a wide variety of users through two interfaces that are updated and enhanced simultaneously: a character-based version and a multimedia version that resides on the World Wide Web (WWW). The character-based CCO supports Zmodem, Kermit, Xmodem, FTP, and Internet e-mail, and it is excellent for quick access to information over lower bandwidths. The WWW version of CCO provides richly formatted documents with photographs, figures, graphics, and video, as well as hyperlinks to related information.

You can access CCO in the following ways:

- WWW: http://www.cisco.com
- WWW: http://www-europe.cisco.com
- WWW: http://www-china.cisco.com
- Telnet: cco.cisco.com
- Modem: From North America, 408 526-8070; from Europe, 33 1 64 46 40 82. Use the following terminal settings: VT100 emulation; databits: 8; parity: none; stop bits: 1; and connection rates up to 28.8 kbps.

For a copy of CCO's Frequently Asked Questions (FAQ), contact cco-help@cisco.com. For additional information, contact cco-team@cisco.com.

**Note** If you are a network administrator and need personal technical assistance with a Cisco product that is under warranty or covered by a maintenance contract, contact Cisco's Technical Assistance Center (TAC) at 800 553-2447, 408 526-7209, or tac@cisco.com. To obtain general information about Cisco Systems, Cisco products, or upgrades, contact 800 553-6387, 408 526-7208, or cs-rep@cisco.com.

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This document is to be used in conjunction with the Cisco Access Server 5100 Hardware Installation and Maintenance and Cisco Access Server 5100 Hardware Installation publications and as an addendum to the Router Products Getting Started Guide.

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