



Power Systems  
Managing the HMC 5250 console

IBM Confidential







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**Note**

Before using this information and the product it supports, read the information in “Notices,” on page 5, the *IBM Systems Safety Notices* manual, G229-9054, and the *IBM Environmental Notices and User Guide*, Z125-5823.

This edition applies to IBM Power Systems servers that contain the POWER6 processor and to all associated models.

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## Safety notices

Safety notices may be printed throughout this guide:

- **DANGER** notices call attention to a situation that is potentially lethal or extremely hazardous to people.
- **CAUTION** notices call attention to a situation that is potentially hazardous to people because of some existing condition.
- **Attention** notices call attention to the possibility of damage to a program, device, system, or data.

## World Trade safety information

Several countries require the safety information contained in product publications to be presented in their national languages. If this requirement applies to your country, a safety information booklet is included in the publications package shipped with the product. The booklet contains the safety information in your national language with references to the U.S. English source. Before using a U.S. English publication to install, operate, or service this product, you must first become familiar with the related safety information in the booklet. You should also refer to the booklet any time you do not clearly understand any safety information in the U.S. English publications.

## German safety information

Das Produkt ist nicht für den Einsatz an Bildschirmarbeitsplätzen im Sinne § 2 der Bildschirmarbeitsverordnung geeignet.

## Laser safety information

IBM® servers can use I/O cards or features that are fiber-optic based and that utilize lasers or LEDs.

### Laser compliance

All lasers are certified in the U.S. to conform to the requirements of DHHS 21 CFR Subchapter J for class 1 laser products. Outside the U.S., they are certified to be in compliance with IEC 60825 as a class 1 laser product. Consult the label on each part for laser certification numbers and approval information.

#### CAUTION:

This product might contain one or more of the following devices: CD-ROM drive, DVD-ROM drive, DVD-RAM drive, or laser module, which are Class 1 laser products. Note the following information:

- Do not remove the covers. Removing the covers of the laser product could result in exposure to hazardous laser radiation. There are no serviceable parts inside the device.
- Use of the controls or adjustments or performance of procedures other than those specified herein might result in hazardous radiation exposure.

(C026)

#### CAUTION:

Data processing environments can contain equipment transmitting on system links with laser modules that operate at greater than Class 1 power levels. For this reason, never look into the end of an optical fiber cable or open receptacle. (C027)

#### CAUTION:

This product contains a Class 1M laser. Do not view directly with optical instruments. (C028)

**CAUTION:**

Some laser products contain an embedded Class 3A or Class 3B laser diode. Note the following information: laser radiation when open. Do not stare into the beam, do not view directly with optical instruments, and avoid direct exposure to the beam. (C030)

**Power and cabling information for NEBS (Network Equipment-Building System) GR-1089-CORE**

The following comments apply to the IBM servers that have been designated as conforming to NEBS (Network Equipment-Building System) GR-1089-CORE:

The equipment is suitable for installation in the following:

- Network telecommunications facilities
- Locations where the NEC (National Electrical Code) applies

The intrabuilding ports of this equipment are suitable for connection to intrabuilding or unexposed wiring or cabling only. The intrabuilding ports of this equipment *must not* be metalically connected to the interfaces that connect to the OSP (outside plant) or its wiring. These interfaces are designed for use as intrabuilding interfaces only (Type 2 or Type 4 ports as described in GR-1089-CORE) and require isolation from the exposed OSP cabling. The addition of primary protectors is not sufficient protection to connect these interfaces metalically to OSP wiring.

**Note:** All Ethernet cables must be shielded and grounded at both ends.

The ac-powered system does not require the use of an external surge protection device (SPD).

The dc-powered system employs an isolated DC return (DC-I) design. The DC battery return terminal *shall not* be connected to the chassis or frame ground.



## Managing the HMC 5250 console

Learn about how the Hardware Management Console (HMC) provides support to host the 5250 console for an IBM i logical partition.

**Note:** The remote HMC client is not able to start a 5250 emulator.

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### Preparing the logical partition to connect

Learn how to set up your IBM i logical partition so that it can communicate with the Hardware Management Console (HMC) 5250 console.

To connect to a 5250 console using the HMC, you must first create an IBM i logical partition with some specific profile properties. To set up an IBM i logical partition's properties so that you can connect to a 5250 console, do the following:

1. In the navigation area, expand the **Server and Partition** folder.
2. Select **Server Management**.
3. In the contents area, open the server on which the logical partition is located.
4. Open **Partitions**.
5. Right-click the logical partition profile and select **Configuration** → **Manage Profiles**.
6. Select the profile you want to work with and select **Actions** → **Edit** → **Tagged I/O**.
7. Select the **Use HMC console** check box and click **OK**.

The logical partition is now ready to be powered on and connected to the HMC 5250 console.

If your partition is already powered on, you can verify the current console settings by doing the following:

1. In the navigation area, expand the **Server and Partition** folder.
2. Select **Server Management**.
3. In the contents area, open the server on which the logical partition is located.
4. Open **Partitions**.
5. Right-click the logical partition profile and select **Configuration** → **Manage Profiles**.
6. Select the profile you want to work with and select **Actions** → **Edit** → **Tagged I/O**.
7. Verify that the **Use HMC console** check box is selected, and click **OK**.

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### Connecting to a 5250 console

Learn how to connect to the 5250 console on the Hardware Management Console (HMC) so that it can communicate with the IBM i logical partition.

To connect to the 5250 console so that it can communicate with the IBM i logical partition, you must connect to the 5250 proxy on an HMC that is managing the managed system.

### Connecting to a 5250 console locally

Learn how to connect to a 5250 console locally.

To connect to a 5250 console locally, complete the following steps:

1. In the navigation area, expand the **Server and Partition** folder.

2. Select **Server Management**.
3. In the contents area, right-click on the partition and select **Open dedicated 5250 console** or **Open shared 5250 console**. If you select **Shared**, you must enter a session key that can be used by another user with another 5250 emulator. If you are the first user, the session key is entered twice to verify accuracy and it is not echoed to the window as you type. Selecting this option allows you to:
  - Share a console session
  - See the same logical partition console windows
  - Navigate each of the logical partition console windows
 If you select **Open dedicated 5250 console**, other users are not able to share the session with you.

## Connecting to a 5250 console remotely

Learn how to connect to a 5250 console remotely, in addition to configuring remote security and the Hardware Management Console (HMC) firewall.

The remote support for HMC 5250 uses Secure Sockets Layer (SSL) encryption. With SSL encryption required for all remote access to the HMC, a certificate is required to provide the keys for this encryption. The HMC provides a self-signed certificate that allows this encryption to occur.

To connect to a 5250 console remotely, you must use one of the following emulators:

- IBM iSeries® Access PC5250 emulator, Version 5, Release 3 with PTF SI13587 or later

### Note:

To view your service pack level, select **Start → Programs → IBM System i® Access for Windows® → Service → Check Service Level**.

- IBM Personal Communications 5250 emulator, Version 5.7 or later
- System i Access for Linux® emulator, Version 5.2.0-1.4 or later

To connect remotely, complete the following steps:

1. Configure HMC support for your PC that is running in the Windows or Linux environment.  
To configure your PC that is running in the Windows environment, do the following:
  - a. Open the 5250 emulator application on your PC.
  - b. Create a new session.
  - c. In the Configure PC5250 window, type the HMC host name or IP address in the **System Name** field and indicate the port number. Type 2300 into the port number field if you are not using SSL, or 2301 if you are using SSL.
  - d. Select **Properties**.
  - e. If you are using the IBM iSeries Access PC5250 emulator, do the following:
    - 1) Select **Use default User ID, prompt as needed** from the menu.
    - 2) Type Q#HMC into the **User ID** field.

**Note:** The user ID, Q#HMC, is not used for security authentication. You will be prompted for additional security values by the HMC Telnet Proxy.

- 3) If you are not using SSL, select **Not secured** as the security setting, or select your current SSL level.

To configure your PC that is running in the Linux environment, complete the following steps:

- a. Create a new session by using the setup5250 configuration program.
- b. In the 5250 Emulator Connection window, type the HMC TCP system name or IP address in the **AS/400 Host Name** field.
- c. Select **Advanced 5250 Connection** The Advanced 5250 Emulator Connection window is displayed.
- d. Type 2300 into the **Telnet Port number** field.

- e. Type Q#HMC into the **Emulator User ID** and **Emulator Password** fields.

**Note:** The user ID, Q#HMC, is not used for security authentication. You will be prompted for additional security values by the HMC Telnet Proxy. The **Emulator Password** field is ignored. As a result, any character string can be used.

2. Open the 5250 emulator and select the language you want to see on the interface.
3. Log in using your HMC user ID and password.
4. Select the managed system that contains the logical partition to which you want to connect.
5. Select the logical partition to which you want to connect.
  - If you select **Shared**, you must enter a session key that can be used by another user with another 5250 emulator. If you are the first user, the session key is entered twice to verify accuracy.
  - If you select **Dedicated**, other users are not able to share the session with you.
  - If you select **Details**, you can view which users are connected to this partition.

If you want to configure the HMC firewall, see Changing HMC firewall settings.



## Appendix. Notices

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The following Class A statements apply to the IBM servers that contain the POWER6 processor.

## **Federal Communications Commission (FCC) statement**

**Note:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. IBM is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

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.

## **Industry Canada Compliance Statement**

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

## **Avis de conformité à la réglementation d'Industrie Canada**

Cet appareil numérique de la classe A respecte est conforme à la norme NMB-003 du Canada.

## **European Community Compliance Statement**

This product is in conformity with the protection requirements of EU Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility. IBM cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the fitting of non-IBM option cards.

This product has been tested and found to comply with the limits for Class A Information Technology Equipment according to European Standard EN 55022. The limits for Class A equipment were derived for commercial and industrial environments to provide reasonable protection against interference with licensed communication equipment.

European Community contact:  
IBM Technical Regulations  
Pascalstr. 100, Stuttgart, Germany 70569  
Tele: 0049 (0)711 785 1176  
Fax: 0049 (0)711 785 1283  
E-mail: tjahn@de.ibm.com

**Warning:** 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.

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## Electromagnetic Interference (EMI) Statement - People's Republic of China

### 声 明

此为 A 级产品，在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对其干扰采取切实可行的措施。

Declaration: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may need to perform practical action.

## Electromagnetic Interference (EMI) Statement - Taiwan

### 警告使用者：

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

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

**IBM Taiwan Contact Information:**



台灣IBM 產品服務聯絡方式：  
台灣國際商業機器股份有限公司  
台北市松仁路7號3樓  
電話：0800-016-888

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Verantwortlich für die Konformitätserklärung nach des EMVG ist die IBM Deutschland GmbH, 70548 Stuttgart.

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