Power Systems
Managing the HMC 5250 console
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Contents

Safety notices ........................................... v

Managing the HMC 5250 console ................................. 1
What’s new in Managing the HMC 5250 console .......... 1
Preparing the IBM i logical partition to connect to a 5250 console session .......... 1
Connecting to a 5250 console ................................ 1
  Opening a local 5250 console session from an HMC .......... 1
  Opening a session from an active IBM i logical partition .......... 2
  Opening a session while activating an IBM i logical partition .......... 2
  Opening a remote 5250 console session from an HMC .......... 2

Appendix. Notices ........................................ 5
Trademarks ................................................. 6
Electronic emission notices ................................... 6
  Class A Notices ........................................... 6
Terms and conditions ......................................... 10
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Safety notices may be printed throughout this guide:

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- **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.

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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 metallically 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 metallically 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.

What’s new in Managing the HMC 5250 console

Read about new or significantly changed information in Managing the HMC 5250 console since the previous update of this topic collection.

October 2009

Miscellaneous changes have been made throughout the information.

Preparing the IBM i logical partition to connect to a 5250 console session

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

To connect to a 5250 console using the HMC, you must ensure that the IBM i logical partition profile properties are set up properly. To set up the properties on an IBM i logical partition so that you can connect to a 5250 console, do the following:

1. In the navigation area, expand Systems Management.
2. Expand Servers and select the server that contains the IBM i logical partition that you want to work with.
3. In the contents pane, select the logical partition you want to work with.
4. Select Tasks ➤ Configuration ➤ Manage Profiles.
5. Select the profile you want to work with, and select Actions ➤ Edit.
6. Click Tagged I/O.
7. Verify that Hardware Management Console appears under the Console menu, and click OK.
8. Click Close.

The logical partition is now ready for a 5250 console session through the HMC.

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.

Opening a local 5250 console session from an HMC

You can open a 5250 console locally from an active logical partition or while activating an IBM i logical partition from a Hardware Management Console (HMC).
Opening a session from an active IBM i logical partition
If your IBM i logical partition is active, you can open a 5250 console from it.

To connect to a 5250 console locally from an active logical partition, complete the following steps:
1. In the navigation area, expand Systems Management.
2. Select Servers, and select the server with the IBM i logical partition that you want to work with.
3. In the contents area, right-click on the logical partition and choose from the following options:
   - **Open dedicated 5250 console**: If you select this option, other users are not able to share the session with you.
   - **Open shared 5250 console**: If you select this option, others can share this session with you. For example, you could start a backup that might take several hours, and then either you or someone else can manage it from another workstation in your office or from home.
4. If you selected **Open shared 5250 console**, 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. You must include a numeric digit in the key. You might want to describe the task that you are performing, for example, backup1key. With this option, you can do the following operations:
   - Share a console session
   - See the same logical partition console windows
   - Navigate each of the logical partition console windows

Opening a session while activating an IBM i logical partition
If your IBM i logical partition is not active, you can activate it and open a 5250 console at the same time.

To open a 5250 console, perform the following steps:
1. In the navigation area, expand Systems Management.
2. Select Servers, and select the server with the IBM i logical partition that you want to work with.
3. In the contents area, select the logical partition that you want to activate and for which you want to open a 5250 console session.
4. Select **Operations → tasks → Activate**.
5. Select **Open a terminal window or console session**.
6. Click **OK**. The logical partition is activated and the 5250 session opens. If requested, enter a session key.

Opening a remote 5250 console session from an HMC
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
- IBM Personal Communications 5250 emulator, Version 5.7 or later
- System i Access for Linux® emulator, Version 5.2.0-1.4 or later

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

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.

**Related information**

- Starting system management services
Appendix. Notices

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**Electronic emission notices**

**Class A Notices**

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.

**VCCI Statement - Japan**

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

The following is a summary of the VCCI Japanese statement in the box above:

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Japanese Electronics and Information Technology Industries Association (JEITA) Confirmed Harmonics Guideline (products less than or equal to 20 A per phase)

高調波ガイドライン適合品

Japanese Electronics and Information Technology Industries Association (JEITA) Confirmed Harmonics Guideline with Modifications (products greater than 20 A per phase)

高調波ガイドライン準用品

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。

The following is a summary of the EMI Taiwan statement above.

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:
Electromagnetic Interference (EMI) Statement - Korea

Please note that this equipment has obtained EMC registration for commercial use. In the event that it has been mistakenly sold or purchased, please exchange it for equipment certified for home use.

Germany Compliance Statement

Deutschsprachiger EU Hinweis: Hinweis für Geräte der Klasse A EU-Richtlinie zur Elektromagnetischen Verträglichkeit


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Deutschland: Einhaltung des Gesetzes über die elektromagnetische Verträglichkeit von Geräten

Dieses Produkt entspricht dem “Gesetz über die elektromagnetische Verträglichkeit von Geräten (EMVG)“. Dies ist die Umsetzung der EU-Richtlinie 2004/108/EG in der Bundesrepublik Deutschland.

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

Das Gerät erfüllt die Schutzanforderungen nach EN 55024 und EN 55022 Klasse A.

Electromagnetic Interference (EMI) Statement - Russia

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