

VIOS Version 2.2.0



Release Notes

VIOS Version 2.2.0



Release Notes

Note

Before using this information and the product it supports, read the information in “Notices,” on page 11.

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Contents

Chapter 1. Installation, migration, upgrade, and configuration information	1
VIOS fix distribution changes	1
Memory requirements	1
Host Ethernet Adapter memory requirements	1
Migrating the VIOS from Version 1.4 or later to Version 2.2.0	2
Pre-migration steps	2
Migrating the VIOS from a migration DVD	2
Updating a VIOS from version 2.1.0, 2.1.1, or 2.1.2 to version 2.2.0	3
Chapter 2. VIOS Version 2.2.0 enhancements	5
VIOS	5
Chapter 3. Software license agreements	7
Chapter 4. Online documentation for VIOS	9
Appendix. Notices	11
Trademarks	13

Chapter 1. Installation, migration, upgrade, and configuration information

The following information applies to Virtual I/O Server (VIOS).

Note: This software might contain errors that could result in critical business impact. Install the latest available update packages prior to using this software.

The method of VIOS update distribution is undergoing a transition from the VIOS website at <http://www14.software.ibm.com/webapp/set2/sas/f/vios/download> to the IBM® Fix Central site. For a period of time during this transition, updates will be available on both sites. When the transition is complete, the VIOS website will direct you to the IBM Fix Central site for downloads. To obtain VIOS updates directly from Fix Central go to www.ibm.com/support/fixcentral and select the following:

- Product Group: System p®
- Product: Virtualization Software
- Product: Virtual I/O Server

To view the most current version of the VIOS release notes, go to the online version of the Virtual I/O Server release notes.

All users of the VIOS should subscribe to the VIOS subscription service. Subscribing to this service allows users to stay current on VIOS news and critical product updates. To subscribe, go to the following Web site and click the **Subscribe/Setup** tab:

<http://www14.software.ibm.com/webapp/set2/subscriptions/pqvcmj>

VIOS fix distribution changes

The distribution of VIOS fixes is undergoing a change.

www.ibm.com/support/fixcentral

Memory requirements

The minimum memory requirement for VIOS Version 2.2.0 varies based on the configuration.

A general rule for a minimum current memory requirement for VIOS Version 2.2 is 512 MB. A smaller minimum current memory requirement might support a configuration with a very small number of devices or a small maximum memory configuration.

VIOS Version 2.2 requires the minimum current memory requirement to increase as the maximum memory configuration or the number of devices scales upward, or both. Larger maximum memory configurations or additional devices scale up the minimum current memory requirement. If the minimum memory requirement is not increased along with the maximum memory configuration, the partition freezes during the initial program load (IPL).

Host Ethernet Adapter memory requirements

Configurations that a Host Ethernet Adapter (HEA) require more memory than the 512 MB minimum. Each logical HEA port that is configured requires an additional 102 MB of memory. The minimum memory requirement for configurations with one or more HEA ports, where n is the number of HEA ports, is $512 \text{ MB} + n \times 102 \text{ MB}$.

Migrating the VIOS from Version 1.4 or later to Version 2.2.0

Use the VIOS Migration DVD to migrate from VIOS Version 1.4 or later to VIOS Version 2.2.0. After the migration is complete, download and install Fix Pack 24.

Pre-migration steps

You must perform the pre-migration steps before you start migrating the VIOS:

1. Back up your current VIOS.
2. Use the **startnetsvc** command to determine any services that were started, and record these.
3. Use the **lssvc** command to determine other services and agents that are configured.
 - Use the **lssvc** command to see a list of all of the agents.
 - Use the **lssvc <agent_name>** command to determine the parameters set for a particular agent. Record these so that the agent can be reconfigured after they migration with the same parameters.

Migrating the VIOS from a migration DVD

To migrate the VIOS from a migration DVD, complete the following steps:

1. Activate the VIOS logical partition using the HMC (version 7 or later) by completing the following steps:
 - a. Insert the VIOS migration DVD into the VIOS logical partition.
 - b. In the HMC navigation area, expand Systems Management Servers.
 - c. Select the VIOS logical partition server.
 - d. In the contents area, select the VIOS logical partition.
 - e. Shutdown VIOS by completing the following steps:
 - 1) Select Tasks>Operations>Shutdown.
 - 2) In the Shutdown menu, select *delayed*, then select OK.
 - f. Once the VIOS logical partition is inactive, select Tasks>Operations>Activate. The Activate Partition menu opens with a selection of logical partition profiles. Ensure that the correct profile is highlighted.
 - g. Select *Open a terminal window or console session* to open a virtual terminal (vterm) window.
 - h. Select *(Advanced)* to open the advanced options menu.
 - i. Select SMS for the boot mode.
 - j. Click OK to close the advanced options menu.
 - k. Click OK. A virtual terminal window opens for the logical partition.
2. Select a boot device by completing the following steps:
 - a. Select *Select Boot Options* and press Enter.
 - b. Select *Select Install/Boot Device* and press Enter.
 - c. Select *CD/DVD* and press Enter.
 - d. Select the device number that corresponds to the DVD and press Enter. You can also select *List all devices*, select the device number from the list, and then press Enter.
 - e. Select *Normal mode boot*.
 - f. Select *Yes* to exit SMS.
3. Install the VIOS by completing the following steps:
 - a. Select a console and press Enter.
 - b. Select a language for the BOS menus and press Enter.
 - c. Select *Change/Show Installation Settings and Install* .

If the title displayed is not VIOS Migration Installation and Settings, replace the DVD that is in the drive with the correct DVD before continuing to the next step.
 - d. Select *Install* with the setting listed above.

- e. Select Continue with Install.
 - f. Select Continue with migration.
4. Complete the following post-migration tasks:
- a. Verify that the migration was successful by doing the following:
 - 1) Check the results of the **installp** command.
 - 2) Run the **ioslevel** command. The results should indicate that the ioslevel is \$ ioslevel 2.1.0.0.
 - b. Restart the daemons and agents that were previously running by doing the following:
 - 1) Log on to the VIOS as a padmin user.
 - 2) Enter the following command:

```
$ motd -overwrite "<enter previous banner message>"
```
 - 3) Run the **cfigsvc** command to reconfigure all of the agents by using the configuration data that you saved in the pre-migration steps.
 - 4) Run the **startsvc** command to start the agents.
 - 5) Run the **startnetsvc** command to restart the services that were running before the migration using the information that you saved in the pre-migration steps.
 - 6) Start any previously running daemons such as FTP or Telnet.
 - 7) Download Fixpack 2.2.0.10–FP24. Directions for installing the Fixpack are available at the following Web site:

<http://www14.software.ibm.com/webapp/set2/sas/f/vios/download/FPinstall.html>

Updating a VIOS from version 2.1.0, 2.1.1, or 2.1.2 to version 2.2.0

To update a VIOS from either version 2.1.0, 2.1.1, or 2.1.2 to version 2.2.0, complete the following steps:

- 1. Download Fixpack 2.2.0.10-FP24.
- 2. Complete the directions to install the Fixpack that are available at the following Web site:

<http://www14.software.ibm.com/webapp/set2/sas/f/vios/download/FPinstall.html>

Chapter 2. VIOS Version 2.2.0 enhancements

This release of VIOS contains several enhancements.

VIOS

The features of each enhancement are described by product area.

- Role-based access control

RBAC brings an added level of security and flexibility in the administration of VIOS. With RBAC, there are a predefined set of authorizations, each related to specific VIOS commands. Roles can be created, that are related to a set of authorizations with the unique command execution capability. You can assign these roles to a given user. A normal user (a user with basic authorizations) who has the UserManagement role can manage the users on the system, but does not have any other access.

The system administrator can remove the user management functions from a user when not required.

RBAC supports split management functions in VIOS, which currently can be achieved only by the padmin user. RBAC provides better security by providing only the necessary access to users, easy management and auditing of system functions.

- USB tape

Support has been added for USB DAT-320 Tape Drives and its use as a virtual tape device for VIOS clients.

- USB Blu-ray

USB Blu-ray optical devices are now supported. For more information, see <http://publib.boulder.ibm.com/infocenter/aix/v7r1/topic/com.ibm.aix.nt/RELNOTES/GI11-9815-00.htm>. The AIX® operating system does not support mapping these as virtual optical devices to clients. However, you can import the disc into the virtual optical media library and map the created file to the client as a virtual DVD drive.

- IBM Tivoli® Monitoring: VIOS Premium Agent Version 6.2.2.1

- New attributes in the CPU Summary attribute group that monitors processor frequency and a new situation, Reduced_Proc_Freq_Info, that alerts you when a processor is running at reduced frequencies.

- New attributes added to the Logical Partition attribute group that monitors 4-way simultaneous multi-threading (SMT) on POWER7® hardware.

- Support for initial discovery of monitored attributes for IBM Tivoli Application Dependency Discovery Manager (TADDM), using the Discovery Library Adapter (DLA).

- New Cognos-based Tivoli Common Reporting reports that provides easy-to-use drag, drop, and pivot capabilities to significantly reduce the time for building custom reports for historical data.

- CEC Base Agent Version 6.2.2.1

- New attributes added to the Mon_LPars attribute group that monitors 4-way SMT on POWER7 hardware.

- A new attribute group, HMC Switch, monitors Hardware Management Console (HMC) failover. A new workspace, HMC failover, provides information about the most recent failover events, and two new situations alerts you to new events.

- Support for initial discovery of monitored attributes for TADDM, using the DLA.

- New Cognos-based Tivoli Common Reporting reports that provide easy-to-use drag, drop, and pivot capabilities to significantly reduce the time for building custom reports for historical data.

- TotalStorage Productivity Center 4.1.1.74

- Tivoli Storage Manager 6.2.1

Chapter 3. Software license agreements

There are instances where the software license agreements might not be displayed correctly. In this event, the license agreements can be viewed in all languages at the following Web site:

<http://www.ibm.com/software/sla/sladb.nsf>

Chapter 4. Online documentation for VIOS

For online documentation, see *Using the Virtual I/O Server* at the following Web site:

<http://publib.boulder.ibm.com/infocenter/eserver/v1r3s/topic/iphb1/iphb1kickoff.htm>

For additional documentation, including the Redbooks® publication, go to the following Web site:

<http://www14.software.ibm.com/webapp/set2/sas/f/vios/documentation/home.html>

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