

VIOS Version 2.2.2.2

*Release Notes*





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**Note**

Before using this information and the product it supports, read the information in "Notices" on page 5.

This edition applies to IBM Virtual I/O Server Version 2.2.2.2, and to all subsequent releases and modifications until otherwise indicated in new editions.

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# Contents

<b>About this document</b> . . . . .	<b>v</b>
Highlighting . . . . .	v
ISO 9000. . . . .	v
<b>Virtual I/O Server release notes</b> . . . . .	<b>1</b>
<b>Notices</b> . . . . .	<b>5</b>
Programming interface information. . . . .	6
Trademarks. . . . .	6
Terms and conditions . . . . .	7



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## About this document

The release notes include late technical information that is not included in other topics, and the release notes highlight new functions for the Virtual I/O Server release.

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## Highlighting

The following highlighting conventions are used in this document:

<b>Bold</b>	Identifies commands, subroutines, keywords, files, structures, directories, and other items whose names are predefined by the system. Also identifies graphical objects such as buttons, labels, and icons that the user selects.
<i>Italics</i>	Identifies parameters whose actual names or values are to be supplied by the user.
Monospace	Identifies examples of specific data values, examples of text similar to what you might see displayed, examples of portions of program code similar to what you might write as a programmer, messages from the system, or information you should actually type.

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## ISO 9000

ISO 9000 registered quality systems were used in the development and manufacturing of this product.





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## Virtual I/O Server release notes

The Virtual I/O Server (VIOS) release notes are available in various versions.

You can view the VIOS release notes for various versions in either HTML or PDF format as shown in the following table.

Table 1. Release notes for VIOS by version

VIOS versions	Links
2.1.2	HTML , PDF
2.1.3	HTML , PDF
2.2.0	HTML , PDF
2.2.0.12	HTML , PDF
2.2.1.0	HTML , PDF
2.2.2.0	HTML , PDF
2.2.2.2	HTML , PDF

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## VIOS problem resolution

To ensure the reliability, availability, and serviceability of a computing environment by using the Virtual I/O Server (VIOS), update the VIOS software to the latest fix level for that particular release. The latest level contains all cumulative fixes for the specified VIOS release.

This release delivers fixes and base hardware enablement for the VIOS Version 2.2.1.1 and VIOS Version 2.2.2.1. The VIOS releases earlier than the VIOS Version 2.2.1.1 must be upgraded to VIOS Version 2.2.1.1 in order to apply the VIOS service pack 2.2.1.6. The VIOS releases earlier than the VIOS Version 2.2.2.1 must be upgraded to VIOS Version 2.2.2.1 in order to apply the VIOS service pack 2.2.2.2.

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## VIOS package terminology

### VIOS release

The VIOS release contains product enhancements, new functions, new hardware support, and fixes.

### Release update or fix pack

A release update, also known as a *fix pack*, updates the VIOS software to the latest version. Release updates contain product enhancements, new functions, new hardware support, and fixes.

### Service pack

A service pack applies to only one VIOS version. A service pack contains critical fixes and base enablement support for new hardware. A service pack does not update the VIOS to a new level. It applies only to a specific VIOS fix pack release.

### Interim fix

An interim fix applies to a specific VIOS level and provides a fix for a specific problem. The official fixes are included in the future fix packs or service packs of the VIOS software.

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## Read this before installation

The VIOS updates can be obtained from the IBM® Fix Central website (<http://www.ibm.com/support/fixcentral/>). To get VIOS Version 2.2.2.2 updates from the IBM Fix Central website.

**Note:** The Virtual I/O Server (VIOS) software might contain errors that could result in critical business impact. Install the latest available fixes prior to using this software.

To view the most current version of the VIOS release notes, see the online version of the VIOS release notes.

All users of VIOS software must subscribe to the VIOS subscription service. Subscribe to this service to stay current on VIOS news and critical product updates.

To subscribe to the VIOS subscription service, go to the IBM Support Portal website.

In the **Notifications** box, click **Sign in to create, manage or view your subscriptions** tab.

## VIOS Version 2.2.2.2 installation changes

The VIOS software is distributed on two DVDs. When you boot from DVD 1, you are prompted to insert DVD 2.

To install another language fileset after the initial installation is complete, insert the second DVD into the DVD drive and use the **chlang** command.

## Memory requirements

The minimum memory requirement for VIOS Version 2.2.2.2 varies based on the configuration.

A general rule for the minimum memory requirement for VIOS Version 2.2.2.2 is 4 GB. A minimum current memory requirement might support a configuration with a minimum number of devices or a small maximum memory configuration. However, to support shared storage pools, the minimum memory requirement is 4 GB.

VIOS Version 2.2.2.2 requires the minimum current memory requirement to increase when either the maximum memory configuration or the number of devices increases or when they both increase. Larger maximum memory configurations or additional devices increase the minimum current memory requirement. If the minimum memory requirement is not increased along with the maximum memory configuration, the partition stops during the initial program load (IPL).

## ROOTVG requirements

VIOS Version 2.2.2.2 requires a minimum of 30 GB of disk space for installation. Ensure that the disk that is allocated for the VIOS installation contains at least 30 GB of available space before you attempt to install VIOS.

## Host Ethernet Adapter memory requirements

Configurations that contain one or more Host Ethernet Adapters (HEAs) require more memory than the minimum requirement of 512 MB. 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 is 512 MB + ( $n \times 102$ ) MB, where  $n$  is the number of HEA ports.

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## VIOS Version 2.2.2.2 enhancements

This release of VIOS contains several enhancements in the POWER® virtualization area.

## Shared storage pool

The maximum values of the shared storage pools follow:

- Maximum of 16 logical partitions in the shared storage pool
- Maximum of 1024 disks in the shared storage pool
- Maximum of 512 TB of storage in the shared storage pool
- Maximum of 8192 virtual disk (logical unit) mappings in the shared storage pool

The VIOS Version 2.2.2.2 supports the shared storage pool rolling updates. With this enhancement, the nodes in the cluster can be updated individually without causing an outage of the entire cluster.

The VIOS Version 2.2.2.2 supports the creation of the shared storage pool cluster over Internet Protocol Version 6 (IPv6) network.

**Note:** A node with both IPv6 static and IPv6 stateless autoconfiguration is not supported in VIOS Version 2.2.2.2.

## VIOS support

VIOS Version 2.2.2.2 is enhanced with the following features:

- Supports 8 GB quad port PCIe generation with 2 Fibre Channels
- Supports IBM Power<sup>®</sup> 770 with POWER7<sup>®</sup> IOC I/O hub
- Supports IBM Power 720 Express with POWER7 IOC I/O hub
- Supports 2.5 inch serial attached SCSI solid-state drives (SAS SSD) in 200 GB and 400 GB capacities

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## IBM Systems Director Common Agent

VIOS Version 2.2.2.2 includes the IBM Systems Director Common Agent 6.3.0.0. The Systems Director Common Agent is started automatically on VIOS Version 2.2.2.2. For more details about how to start and stop the agent, see Starting and stopping Common Agent on IVM and VIOS website (<https://www.ibm.com/developerworks/wikis/display/WikiPtype/>).

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## Software license agreements

If the software license agreements are not displayed correctly, they can be viewed in all languages at the Software license agreements website (<http://www.ibm.com/software/sla/sladb.nsf>).

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## Online documentation for VIOS software

For online documentation, see the Virtual I/O Server topic collection.



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## Programming interface information

This Virtual I/O Server (VIOS) release notes publication documents intended Programming Interfaces that allow the customer to write programs to obtain the services of IBM VIOS Version 2.2.2.2.

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