

Virtual I/O Server Version 1.2



Release Notes

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Note

Before using this information and the product it supports, read the information in “Notices,” on page 13.

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Contents

Chapter 1. Version 1.2 Enhancements	1
Chapter 2. Installation, Migration, Upgrade, and Configuration Information	3
> Upgrading to Virtual I/O Server, Version 1.2	3
Chapter 3. Software License Agreements	5
Chapter 4. Online documentation for Virtual I/O Server	7
Chapter 5. Required Update for AIX 5L Version 5.3	9
Chapter 6. Update to chlang command for Customers in Japanese Locales	11
Appendix. Notices	13
Trademarks	14

Chapter 1. Version 1.2 Enhancements

Integrated Virtualization Manager (IVM): IVM is a browser-based system management interface that you can use to manage a single managed system without a Hardware Management Console (HMC). The VIOS in a managed system can use IVM to create logical partitions on a single managed system, manage the virtual storage and virtual Ethernet on the managed system, and view service information related to the managed system.

IVM is available on these IBM® systems:

- System p5 505, 520(9131-52A), and 550,550Q(9133-55A)
- eServer™ p5 510, 520, and 550
- OpenPower™ 710 and 720

Virtual I/O Server (VIOS), Version 1.2.0, adds Virtual SCSI support for optical storage devices (DVD-ROM, DVD-RAM).

VIOS Version 1.2.0 virtual networking features were enhanced to include Shared Ethernet Adapter (SEA) failover, and TCP/IP acceleration.

It is recommended that the **netaddr** attribute should only be set on the primary SEA and the address used is that of the gateway. This address must be reachable only through SEA's interface. It is also important to realize that in order for the **netaddr** attribute to work properly, an interface must be created (with a configured IP address) over SEA's adapter.

Chapter 2. Installation, Migration, Upgrade, and Configuration Information

The following information applies to Virtual I/O Server.

Note: This software might contain errors that could result in critical business impact. Install the latest available update packages prior to using this software. Update packages can be obtained from the following Web site:

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

To view the most current version of the Virtual I/O Server release notes, go to the online release notes in the AIX® Information Center where the latest changes in the English version are marked with a ">" in the margin. The information center is located at the following Web site:

<http://publib.boulder.ibm.com/infocenter/pseries/index.jsp>

and select **AIX information** → **AIX resources** → **Release notes**.

All users of the Virtual I/O Server should subscribe to the Virtual I/O Server subscription service. Subscribing to this service allows users to stay current on Virtual I/O Server news and critical product updates. To subscribe, go to the following Web site:

<https://techsupport.services.ibm.com/server/pseries.subscriptionSvcs>

and click the **Subscribe/Setup** tab.

> Upgrading to Virtual I/O Server, Version 1.2

- > In order to take full advantage of the new function available with VIOS Version 1.2 (including IVM and SEA failover), you must update the system firmware level to SF235 or later. SF230_120 is the minimum level of SF230 firmware supported by the VIOS Version 1.2. If a system firmware update is necessary, it is recommended that the firmware be updated before upgrading the VIOS to Version 1.2.
- > If the SEA fails to configure after updating the VIOS to Version 1.2, check the following:
 - > • The system firmware might be downlevel. This causes the virtual Ethernet adapters to silently not support the checksum offload feature (although their ODM attribute `ckhsum_offload` is set to `yes`). Because SEA requires that all of its underlying adapters provide the same level of support for this feature (either all support it or none support it), the real adapter may support the checksum offload feature, but there might be a support mismatch between the real adapter and the virtual adapters that causes the SEA to fail to configure.
 - > • The user has manually modified the `ckhsum_offload` attribute of either the real or the virtual adapters in the SEA, resulting in a mismatch.
- > To correct either of these problems, perform the following steps:
 - > 1. To unconfigure the SEA device, run `rmdev -dev ent?` (where `ent?` is the name of the SEA device).
 - > 2. For each virtual Ethernet belonging to the SEA, run `chdev -dev ent? -attr cksum_offload=no` (where `ent?` is the name of the adapter).
 - > 3. For the SEA's real adapter, run `chdev -dev ent? -attr cksum_offload=no` (where `ent?` is the name of the adapter).
 - > 4. Reconfigure the SEA.
- > This procedure ensures that none of the underlying adapters support the checksum offload feature, allowing the SEA to configure successfully. The above procedure works with either level of firmware.

- > If the latest level of firmware is installed, complete the following to enable the checksum offload capability
- > in the underlying devices:
 - > 1. To unconfigure the SEA device, run `rmdev -dev ent?` (where *ent?* is the name of the SEA device).
 - > 2. For each virtual Ethernet belonging to the SEA, run `chdev -dev ent? -attr chksum_offload=yes` (where *ent?* is the name of the adapter).
 - > 3. For the SEA's real adapter, run `chdev -dev ent? -attr chksum_offload=yes` (where *ent?* is the name of the adapter).
 - > 4. Reconfigure the SEA device.

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 Virtual I/O Server

For online documentation, see the *Using the Virtual I/O Server* topic in the IBM eServer Hardware Information Center at the following Web site:

http://publib.boulder.ibm.com/infocenter/eserver/v1r3s/en_US/index.jsp

Chapter 5. Required Update for AIX 5L Version 5.3

APAR IY58143 delivers fixes for AIX 5.3 that are required for optimal system stability and performance. APAR IY58143, can be obtained from the following Web site:

<http://www.ibm.com/servers/eserver/support/pseries/aixfixes.html>

Installation media or preloaded systems shipped before October 2004 might not include this mandatory fix.

Note: The fix package might be as large as 260 MB, depending on which filesets are installed.

Chapter 6. Update to chlang command for Customers in Japanese Locales

Customers in Japanese locales should use the **chlang** command to force messages on the lft to appear in English. Without this option, messages during the boot sequence are corrupted.

To change the Virtual I/O Server's locale to Japanese, the user needs to issue the following command:

```
chlang -msg C01ft -lang ja_JP
```

Appendix. Notices

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