

Oracle[®] VM Server for SPARC 3.6.2 Supplemental Release Notes

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Oracle VM Server for SPARC 3.6.2 Supplemental Release Notes

These supplemental release notes contain the following information about the Oracle VM Server for SPARC 3.6.2 update release:

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For information about the supported hardware and minimum and fully qualified firmware, Oracle Solaris OS and hardware, see [Chapter 1, “System Requirements” in *Oracle VM Server for SPARC 3.6 Installation Guide*](#).

For information about issues with the Oracle VM Server for SPARC 3.6 software, see [Oracle VM Server for SPARC 3.6 Release Notes](#).

What's New in This Update Release

The `add-vsant-dev` Command Now Supports Domain Migration

As a result of a bug fix (27974950) delivered in the Oracle VM Server for SPARC 3.6.2 update release, you can now migrate a guest domain that has a `vhba` instance associated with a virtual SAN with `mask=on`.

New `calculate-effective-max-pagesize` Option for `add-domain` and `set-domain` Commands

Starting with the Oracle VM Server for SPARC 3.6.2 update release, the new `calculate-effective-max-pagesize` option for `add-domain` and `set-domain` appears. This option enables or disables the `pagesize` limit pre-determined by Oracle Solaris for a domain.

Supported Oracle Solaris OS Versions

You must install the Oracle Solaris 11.4 SRU16 OS (or later) in the control domain to obtain Oracle VM Server for SPARC 3.6.2.

It is also highly recommended to run this same Oracle Solaris OS version (or later) in all domain types that access physical I/O (service, root, and I/O).

For guest domains that use only virtualized I/O, you can run any version of Oracle Solaris supported on your platform, but if running Oracle Solaris 11.4 OS, we highly recommend SRU16 or later.

Oracle Solaris 11.4 SRU16 OS resolves a couple issues that may impact `vdisk` operation.

Resolved Issues

The following enhancement requests and bugs have been fixed for the Oracle VM Server for SPARC 3.6.2 software release:

28900668	ldmd service goes into maintenance mode and guests do not show up post 11.3 upgrade
30283429	cli_ldom_migrate: 'args' is accessed after it is deallocated
30155421	Cannot migrate Guest having a vsan.mask (from 3.6.1. to 3.6.2)
29991766	ldom manager should have an option to turn calculation of max-eff-pgsz off
30240130	Error cases in memory dr may access freed memory
30086348	pkg uninstall puts SMF service into maintenance before removing it
22828100	vsw backing device can be removed when linkprop still in phys-state, but cmd falsely claims an error
29364087	Wrong error message output on attempt to use unsupported IOV_DYNAMIC_OFFLINE_FORCE
29631511	Improve ldmpower error message when PM is disabled
29878508	Domain keeps effective-max-pagesize=16G after LDDoms 3.4 to 3.5 upgrade, but it drops to 256M when subsequently altered with "ldm" command
29896984	Incorrect grammar in error message
29809669	Solaris 11.4 (11.4.5.3.0) ldm list uptime showing incorrect information
29869666	mem dr may free response buf twice
27974950	add-vsan-dev feature does not support Migration
28386691	fma-phys-mem-service DS should be established before requesting blacklist replay
25886316	ldm cancel-reconf causes core dump if a root domain has VCC
29405331	ldmd dumps core on removal of last named CMI resource from primary
29351514	Second add of a specific named cmi resource fails on primary after cancel reconf
29349849	Migrated domains do not work on targeted node in OVM3.6.1 with PM, named cores
28633851	PM may not work normally after two successive PPARDRs.
29697593	LDOM not having any memory allocated after reboot (Super Cluster)
29623003	problem in OVMTEMPLAT/OVMTCONFIG
29469375	Improve error messaging for ldm evacuate-io command
29363569	PPAR DR(deleteboard) for a system board which had a VF failed

29557793	Ldm commands are slow and snmp timeout
28634524	concurrent set-mem on multiple domains may cause ldm core dump

Bugs Affecting the Oracle VM Server for SPARC 3.6.2 Update Release

Any bugs described in this section might also affect the Oracle VM Server for SPARC 3.6 software.

ldmd Dumps Core on ldm evacuate-io for a Loaned PCIe Card

Bug ID 30213683: The `ldm evacuate-io` and `ldm restore-io` commands are not supported for PCIe devices that are loaned out to domains other than the one that owns the PCIe bus. This restriction is not enforced in the code. As a result, attempting to do so will produce unpredictable results. Newer Oracle SPARC systems do not support loaning out PCIe cards, so this is only an issue for Fujitsu SPARC platforms.

calculate-effective-max-pagesize=off of a Guest Domain is Not Migrated By ldm migrate-domain

Bug ID 30413014: By default, the Logical Domains Manager calculates effective maximum pagesize, for example, `calculate-effective-max-pagesize=on`. To disable this calculation, type:

```
-->ldm add-domain calculate-effective-max-pagesize=off <ldom>
```

With `calculate-effective-max-pagesize=off`, Logical Domains Manager does not calculate effective maximum pagesize after the `<ldom>` is rebooted. When an `<ldom>` is migrated, the `calculate-effective-max-pagesize` flag is not migrated from the source domain to the target domain. The target domain will have the default value of this flag, which is `calculate-effective-max-pagesize=on`. To disable calculation of effective max pagesize for the target domain, type:

```
-->ldm add-domain calculate-effective-max-pagesize=off <target-ldom>
```

Improve Use of Force in ldm evacuate-io and restore-io

Bug ID 30508890: If the target device for the `evacuate-io` command is a network device and the physical function (PF) is providing a persistent Internet Protocol (IP) interface to the Root Domain in which it is installed, then the `evacuate-io` command will fail. For example:

```
primary# ldm evacuate-io /SYS/RCSA/PCIE14
Failed to power off /SYS/RCSA/PCIE14 in domain nprd.
Error message from svc:/ldoms/agents in domain nprd:
Poweroff Failed. ERROR: devices or resources are busy.
/pci@30e/pci@1/network@0:
  { Hold: module specfs (modid=5): Device opened. }
  { Open: module udp6 (modid=87). }
  { Open: module udp (modid=86). }
  { Network interface net3 }
  { net3: plumbed but down }
```

```
{ Plumbed IP Address }
```

To allow the `evacuate-io` command to succeed, the IP interface must be deleted from the active configuration and removed from the persistent configuration. The following command will delete and remove the IP interface:

```
nprd# ipadm delete-ip netx
```

where `netx` is the `net0-netn` name for the interface. This net alias name for the NAC name used with the `evacuate-io` command can be found in the output of the `hotplug list -vl` command.

Once the interface is deleted and removed, run the `evacuate-io` command again:

```
primary# ldm evacuate-io /SYS/RCSA/PCIE14
primary#
```

It is expected that the PF of the device in the Root Domain is generally not in use on field configurations for those devices that are providing virtual functions (VFs) to other domains. So the exposure to this failure mode is limited.

Documentation Issues

Trap Configuration Examples Do Not Work For net-snmp v5.8

The examples in the “How to Send Traps” in *Oracle VM Server for SPARC 3.6 Management Information Base User’s Guide* will not work when using `net-snmp` v5.8. To work around this issue in `net-snmp` v5.8, replace this command:

```
trapsink localhost
```

with this command:

```
trapsink -s 127.0.0.1:0 localhost
```

This is a known issue for `net-snmp` v5.8 that requires you to set a source. For more information, see <https://sourceforge.net/p/net-snmp/mailman/message/36398374/>.

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