

Oracle[®] VM Server for SPARC 3.6.1 Supplemental Release Notes

March 2019

Oracle VM Server for SPARC 3.6.1 Supplemental Release Notes

These supplemental release notes contain the following information about the Oracle VM Server for SPARC 3.6.1 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

New `ldm` Subcommands `evacuate-io` and `restore-io`

Starting with the Oracle VM Server for SPARC 3.6.1 update release, the new `ldm` subcommands `evacuate-io` and `restore-io` appear. These are placeholders for functionality that will be available in a future Oracle Solaris update. Until that time, executing those commands produces errors like the following:

```
# ldm evacuate-io /SYS/PCI-EM0
The evacuation cannot be performed because the OS version running in domain
primary does not support this feature.
# ldm restore-io /SYS/PCI-EM2
Device /SYS/PCI-EM2 cannot be restored because it is not a hotplug-capable device.
```

Resolved Issues

The following enhancement requests and bugs have been fixed for the Oracle VM Server for SPARC 3.6.1 software release:

14851826	XML should accept empty string for log argument
22554681	Debug log message from <code>dr_mem_send_request</code> shown without a line break.
24454054	<code>ldmd</code> falsely claims No memory on board <code>/SYS/MB/CM#</code>
28454405	DRM steals too many cpus while PM is running
21297490	<code>factory_default_config()</code> should check if VSAN servers are defined
28036533	Syntax Errors(missing commas) in SEQUENCE/arrays of SUN-LDOM-MIB.mib

21330329	Re-enable and modify evacuate/restore to support hot replacement
28648780	ldm -V should show correct version information after firmware update
19951697	Logical Domains manager should print out cpu-arch value, when a guest reaches RA segment limit.
28795738	ldom man page should explain sponfig state [current] more clearly
26401976	Improve reliability of LDoms variable/key updates at start-of-day
28605403	add/set/remove core need to generate XMPP events
28021417	MPP/XML -- incorrect event is generated for CLI create-vf and destroy-vf
28632489	sponfig-related migration errors not reported to users by default
26643839	LDoms migration error handling needs improvement
21977495	add-policy can fail, but still create a disabled policy
27933749	Provide MAC collision information when migrating a guest domain
27728887	setting the mac-addr of a domain fails
28045753	set-vswitch command fails for an upgrade to Ldoms 3.5
28187784	ldom with named resources unable to restore vcpu resource state on target
28357654	ovmtdeploy succeeds but guest domain is unbootable
27725620	Enhance OVMTCREATE/OVMTDEPLOY to preserve the original vdisk id
28280901	Misleading debug message from ovmtcreate regarding compressed template size
27861941	Enhance OVMTCREATE to allow disk selection
28264490	ovmtcreate should error out if diskio fails in pipeline
29292629	man page updates for 21330329
28030932	HV was in an inconsistent state and a system reset was required
28136243	Inconsistent behavior of autosave update on key or variable updates from SP
28353689	Memory leak in a db function call was fixed

Bugs Affecting the Oracle VM Server for SPARC 3.6.1 Update Release

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

Migrated Domains Do Not Work on Targeted Node in OVM 3.6.1 With PM, Named Cores

Bug ID 29349849: On the target node, migrated domains do not function. In addition, it takes about 4 minutes to execute an `ldm` command on the control domain.

This problem occurs when a live migration is performed in the following configuration:

- Power Management (PM) function is enabled on the target node
- Setting named resource for CPU cores on the source migration domain

Recovery: Execute the following commands on the target node:

```
# ldm stop -f <migrated-domain>
# svcadm restart ldmd
# ldm start <migrated-domain>
```

Workaround: Turn off the PM function on the target node before `ldm migrate-domain` is executed on the source node. The PM function is enabled by default on Fujitsu SPARC systems.

Choose one of the following methods as a workaround.

1. Set the power-saving operation to `false` with related SMF property before `ldm migrate-domain` is executed. Subsequently, set the power-saving operation to `true` again after migrated domain state is active.
 - On an Oracle SPARC system:
 - To disable PM manually, run the following commands on the target node:

```
# svccfg -s ldmd setprop ldmd/pm_enabled=false
# svcadm refresh ldmd
# svcadm restart ldmd
```
 - To enable PM manually, run the following commands on the target node:

```
# svccfg -s ldmd setprop ldmd/pm_enabled=true
# svcadm refresh ldmd
# svcadm restart ldmd
```
 - On a Fujitsu SPARC system:
 - To disable PM manually, run the following commands on the target node:

```
# svccfg -s ldmd setprop ldmd/fjpm_enabled=false
# svcadm refresh ldmd
# svcadm restart ldmd
```
 - To enable PM manually, run the following commands on the target node:

```
# svccfg -s ldmd setprop ldmd/fjpm_enabled=true
# svcadm refresh ldmd
# svcadm restart ldmd
```
2. On Fujitsu SPARC systems, set the power-saving operation to `disabled` or `off` with the `XSCF setpparmode` command before `ldm migrate-domain` is executed. Subsequently, set the power-saving operation to `elastic` or `on` again after the migrated domain state is active.
 - On a Fujitsu SPARC M12 system:

```
XSCF> setpparmode -p <ppar-id> -y -m powermgmt_policy=disabled
```

```
XSCF> setpparmode -p <ppar-id> -y -m powermgmt_policy=elastic
```

- On a Fujitsu M10 system:

```
XSCF> setpparmode -p <ppar-id> -y -m elastic=off
```

```
XSCF> setpparmode -p <ppar-id> -y -m elastic=on
```

Note - This issue primarily affects Fujitsu SPARC M12 and Fujitsu M10 systems, which have the Power Management feature enabled by default. Oracle systems do not have Power Management enabled by default, however it is possible to enable this feature on Oracle systems. If Power Management is enabled on an Oracle system, you can experience this issue.

PPAR DR(deleteboard) For a System Board Which Had a VF Failed

Bug ID 29363569: This issue may occur on Fujitsu SPARC M12 servers and Fujitsu M10 servers while executing PPAR DR deleteboard in the following scenario:

1. A domain has I/O devices.
2. A Virtual Function is configured on one or more of the I/O devices.
3. Execute a deleteboard command for the system board which contains the Virtual Function.

This issue occurs because a dependency on a future Oracle Solaris update was introduced into Oracle VM Server for SPARC 3.6.1. Until the Oracle Solaris update is available, use the following workaround.

Workaround: Remove I/O devices containing Virtual Functions manually prior to executing a deleteboard command.

The recommended operation for Fujitsu SPARC M12 servers and Fujitsu M10 servers is to remove I/O devices containing Virtual Functions manually prior to executing a deleteboard command.

Refer to the Fujitsu SPARC M12-2/M12-2S Service Manual or Fujitsu M10-4/Fujitsu M10-4S/SPARC M10-4/SPARC M10-4S Service Manual for details on PPAR DR.

Guest Ldom Bad Unexpected Error From Hypervisor Call at TL 1

Bug ID 27952673: As a component of the bug fix for 27952673, the `migration-class1` definition no longer includes support for a 2-Gbyte page size because this page size is not available on SPARC M8 and SPARC T8 series servers. So, any migration that uses `migration-class1` on a source machine that runs software prior to Oracle VM Server for SPARC 3.6 is blocked if the target machine is a SPARC M8 or SPARC T8 series server that runs at least the Oracle VM Server for SPARC 3.6 software.

To allow the migration, the domain on the source needs to inherit the new definition of `migration-class1`. To accomplish that, perform the following:

1. Upgrade to Oracle VM Server for SPARC 3.6 or later on the source system.
2. For any existing domains configured with `cpu-arch=migration-class1`, reboot the domain to inherit the new definition.

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Part No: E93622

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