MOD 4.2.1-17028 Release Notes

CDP Linux Kernel Module Release Notes

Release Date:	06/14/2012
Build Date:	06/07/2012
Server/Agent Build Version:	4.0.1 build 17213
Released Module Version:	4.2.1 build 17028

NEW FEATURES IN THIS RELEASE

Kernel Module support for 2.6.8-4-686-smp Debian Sarge

Kernel Module support for 2.6.18-274.el5

ISSUES RESOLVED IN THIS RELEASE

Solved Issue with DRDB within Xen Domu

This release corrects an issue that occurred when a User used DRDB on a Cent 5 VM. After installing the Agent and starting the backup, the backup would never complete and errors would appear.

Solved Issue with Aborting a Snapshot on Xen

This release corrects an issue with backups: when raw files were stored on CDP, the MySQL instances would fail with errors.

Solved Issue with CDP Agent Not Being Able to Build Module for FC17

This release corrects an issue in which CDP Agent was not able to build a module for FC17 (Linux 3.3 kernel).

Fixed Corruption on Virtual Device

This release corrects an issue which would cause faulty data to be returned by the virtual device on some configurations.

Solved Issue with Backups Failing on Agent

This release corrects an issue with backups failing on different partitions of Agent, with errors. For example, one backup might fail on `/home`, and then the next backup might complete for `/home`, but then fail on `/var`.

```
Exception: Unable to start snapshot on device /dev/dm-2: Operation not permitted
```

Solved Issue with an Error during a Backup

This release corrects an issue where during a replication on a Fedora Machine (with RAID and LVM, but with a single-partition sda1 mounted in "/"), the CDP would not finish taking the backup because it gets stuck replicating the "/" filesystem, which is mounted in a single partition.

```
hcp: ERROR: hcp_watchdog: could not get session_list_lock
```

Solved Issue of -h Output of hcp

This release corrects an issue in which the `-h` output of hcp did not match the main page and actual options.

Solved Issue of Removing Snapshot after Successful Backup or Unloaded Kernel Driver

This release corrects an issue whereby it was impossible to remove a snapshot after a successful backup or kernel driver unload.

Solved Issue with Not Being Able to Stop Snapshot for Device

This release corrects an issue where, within a multipath environment, it was impossible to stop a snapshot for the Device `/dev/sda2` with id 2.

```
Operation not permitted; waiting 2 seconds for device to settle
```

Solved Issue with Hot Copy Prints Error Message

This release corrects an issue with the following:

```
error USING OLD STUFF!
```

Solved Issue with Hot Copy Reporting rw when Mounted Read-Only and with -o Option

The "read-only" text was removed from the status.

Solved Issue with Agent Returning Error During Backup

This release corrects an issue that would occur when customer ran a backup. The backup would fail and return this error:

```
Exception: Snapshot device /dev/hcp1 for device /dev/sda3 did not settle after 60 seconds. Aborting snapshot.
```

Solved Issue with CDP Agent CLI -- Was Not Possible to Unload the "hcp" Driver Using "cdp -u"

This release corrects an issue that would take place when using CDP Agent CLI. It was not possible to unload the `hcp` driver using `cdp -u`. After executing the following command on the Agent machine:

```
/usr/sbin/r1soft/bin/cdp -u
```

An exception message displayed:

```
Global Agent Exception (std::exception): Unable to unload driver at '/dev/hcp': Operation not permitted
```

Solved Issue Encountered While Checking for Binary Module

This release corrects an issue with netjapan - fedora core 2 - 2.6.10-1.771_FC2smp build failure.

Solved Issue with Agent Stopping Unexpectedly

This release corrects an issue in which CDP Agent would stop suddenly when the new driver was loaded after restarting the `cdp-agent` service.

Solved Issue with Server Kernel Panic

This release corrects an issue whereby kernel panics would arise immediately after upgrading to the 3.16 server.

```
Unable to handle kernel NULL pointer dereference at virtual address 00000034
```

Solved Issue with Error Messages in Console

This release corrects an issue involving error messages in the console:

```
ext4_iget: bogus i_mode
```

```
ext4_lookup: deleted inode references:143026
```

Solved Issue with Kernel Panic 2.6.32-220.4.1.el6.x86_64 #1 SMP

This release corrects the issue.

Solved Issue with Error Messages Seen in CDP Server Task History

This release corrects an issue:

```
CDPAgent - mount id changed from 1331600023 to 0 - block size changed from 4096 to 0
```

Solved Issue with Linux Driver

This release corrects an issue whereby the driver would consume all of the memory if Agent was kill -9'd during a snapshot.

Solved Issue with Error when Creating Snapshot using HCP

This release corrects a CDP Agent error encountered while creating snapshot using HCP:

```
Unable to open driver at '/dev/hcp'; No such device or address
```

Solved Issue with Linux Driver

This release corrects an issue with the Linux Driver: after unloading the module, you would not be able to load the module, and you would receive the following error:

```
hcp: ERROR: Could not create cpd fc cache
```

Solved Issue with Backup Failing for the Same Device

This release corrects this error returned by Agent:

```
An exception occurred during the request. Could not stat linux block device '/dev/hcp1': No such file or directory
```

Solved Issue with Agent Trying to Access a Just-Stopped Snapshot

This release corrects an issue in which, during a backup, the Agent would stop and un-mount the snapshot, but then immediately try to read from it, and fail.

Solved Issue with Replications Failing

This release corrects an issue that involved replications failing with the following error:

```
An exception occurred during the request. Unable to open snapshot device '/dev/hcp1' for replication.: No such file or directory
```

Solved Issue with Building Module for 3.2.1 Kernel

This release corrects an issue in which the build would fail when building for a 3.2.1 kernel.