Dell DR Series System
Release Notes for Version 3.2.0.2

Notes, cautions, and warnings

NOTE: A NOTE indicates important information that helps you make better use of your computer.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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Release notes

These Release Notes are intended to supplement the Dell DR Series system documentation to provide last minute information available for the current release of the DR Series system software. For a complete list of available DR Series system documentation, see the topic, "Other Information You May Need," at the end of these Release Notes.

The Release Notes contain details about the pre-installed system software on the Dell DR Series systems, including details about the latest updates, known issues and resolutions, and other information.

> **NOTE:** For instructions on configuring DR Rapid devices, see the *Dell DR Series System Administrator Guide*. This guide is available at **dell.com/support/home** by selecting your specific DR Series system.

> **NOTE:** It is recommended that you check at **dell.com/support/home** for the latest versions of the DR Series system documentation available from Dell.

Upgrade notes

This topic contains important information for users who are upgrading to software version 3.2.0.2.

> **NOTE:** This release of the DR Series system software is intended for the DR2000v, DR4000, DR4100 and DR6000 systems. (It is not intended for use on the DR4300e, DR4300 or DR6300 systems.)

- You can use NetVault Backup 9.2, 10.0, 10.01, 10.0.5, or 11.0 with this DR Series code release. If you need the latest RDA fixes, Dell recommends to use NetVault Backup 11.0 with release 3.2.0.2.

  > **NOTE:** After installing NetVault Backup 11.0, ensure that the RDA plug-in integrated with NetVault Backup 11.0 is used, or install 3.2.0.2 plugins.

- If you use NetBackup, you must set the optimized synthetic attribute flag on the disk pool if you want to implement optimized synthetic backups. This applies to containers created in 2.1 only. For details, see the topic, "Configuring NetBackup for Optimized Synthetic Backups," in the *Dell DR Series System Administrator Guide*.

- If you are running the 3.0 or 3.1 driver for Rapid NFS and Rapid CIFS, you must update it to the 3.2.0.2 driver.

The following information is for users who are upgrading from software version 2.1.

- If you have the 2.x RDA with OST plug-in installed, you **must** uninstall it, and then install the 3.x version of the plug-in. This is because the name of the plug-in has changed since version 3.0.0.1.

Checking system information

Before troubleshooting issues with a DR Series system, ensure that the installed DR Series system software is up to date. The related drivers, software, and firmware are available at **dell.com/support**.

To download the latest drivers and firmware for your system, follow the steps below:

1. Go to **dell.com/support** and enter your service tag or browse to your product.
2. Click **Drivers and Downloads**.

3. Click **View All Drivers**.
4. Confirm that you have the correct product to begin the search for all the related drivers, software, and firmware.

For information about how to check the current version of the DR Series system software installed, see the *Dell DR Series System Administrator Guide* or the *Dell DR Series System Command Line Reference Guide* at **dell.com/support/ home**.

Supported software and hardware

For a complete list of the supported hardware and software for the Dell DR Series system, see the *Dell DR Series System Interoperability Guide*. You can download this guide by visiting **dell.com/support/home** and selecting your specific DR Series system, which opens the product support page to view product documentation for your system.

What's new in this release

This release includes enhancements and maintenance fixes for the DR Series system software. Refer to the topic, "Known Issues and their Resolutions," for detailed information on the maintenance fixes included in this release.

3.2.0.2 Release

The following list describes the new features and enhancements in the current 3.2.0.2 release:

- **Increased capacity availability for the DR2000v system** — This release adds the ability to support 12 TiB capacity in the DR2000v. Refer to the *Dell DR Series System Interoperability Guide* for detailed information about the increased capacity availability and the supported platforms and operating systems for the DR2000v.
- **Hyperscale version of the DR2000v** — A DR Series hardware system with a Hyperscale license can now function as a regular DR Series system with full DR Series capabilities.
- **DR2000v registration with DR Series system hardware** — This version of the DR2000v can be registered with a DR Series hardware system running either 3.2.0.2 or 3.2.6.1 release versions of the DR Series software.
- **New cleaner statistic for CLI** — When using the `stats -cleaner` CLI command, the last time the cleaner completed is now displayed.

3.2.0.1 Release

For your reference, the following list describes the features and enhancements that were included in the previous 3.2.0.1 release:

- **FIPS support** —
  FIPS 140-2 support has been added.
- **HTTPS requirement** — Starting with release 3.2.0.1, the DR Series system Web interface is accessible via HTTPS only; all HTTP calls to port 80 are redirected to HTTPS (port 443). This requires JavaScript as a prerequisite for browsers. If you attempt to access the DR Series system on port 80 with JavaScript disabled, you are asked to enable JavaScript and the following message appears in the browser:

  ```
  This application cannot run with JavaScript disabled. Please enable
  JavaScript.
  ```
- **NVRAM patch** — A new hardware check has been added in this release to detect super capacitor failure.
- **Samba patch** — This release includes the Samba patch that addresses the Samba "CVE-2015-0240" vulnerability.
- **Configurable RDA opdup retries** — In the event of a connection failure, the number of RDA opdup retries is now configurable. Instructions for configuration are listed as follows.
  For Windows:

a. Create registry key HKLM\SOFTWARE\\Dell\\RDA\RdaOpdupRetries of type DWORD, and assign a value that is equal to the number of retries.

b. Start duplication, and run the command, tcpkill, for the opdup connection multiple times to verify the retry.

For Unix:

a. Stop the NetVault service.

b. Export "OCA_RDA_OPDUP_RETRIES" by setting it to the desired number of retries.

c. Start the NetVault service.

d. Start duplication and run the command, tcpkill, for the opdup connection multiple times to verify the retry.

- **Updated daily container stats report** —
  A field called "Latest mtime of replicated files" has been added to the daily container stats report. You can optionally configure the DR Series system to send this report every day. This additional field specifies the latest modification time of the last file that is in-sync with the target. It implies that all files, which had final modifications completed prior to the time shown in the report, are also in-sync with the target.

  You can enable the daily container stats report when you register the system by clicking the button, **Notify me of [DR Series] daily container stats reports**.

  You can also manage the daily container stats report via CLI by using the following commands:

  – To enable/disable the daily report, use the following command:
  ```
  alerts --email --daily_report <yes/no>
  ```

  – To setup the specific time you want your daily report to get generated, use the following command:
  ```
  alerts --email --daily_report_time <time>
  ```

  > **NOTE:** Daily reports must first be enabled before the report time can be set. You can use both options together. The default time is midnight. The time input should be in 0-24 HR format.

- **Updated RDA platform support** — With Release 3.2.0.1 of the DR Series system software and NetVault Backup 11.0, RDA is supported on the Solaris Sparc and Intel platforms. A standalone RDA installer is also available.

- **CIFS and NFS accelerator support for NetBackup 7.7** — NetBackup 7.7 has been tested for CIFS and NFS accelerators.

- **RMAN Oracle support** — RMAN Oracle 12C is now supported.

- **Updated Veeam feature support** — The following advanced features of Veeam 9 have been qualified.

  – Instant VM recovery
  – Per VM backup file chains
  – Recovery performance optimization
  – Active full with backup copy job
  – Optimized merge process

- **Moonwalk 9.3 support** — Moonwalk 9.3 update1 has been qualified for CIFS and NFS.

- **HP Data Protector support** — HP Data Protector 9 has been qualified for this release.

- **vRanger 7.3 support** — vRanger 7.3 has been qualified with the default RDA plugin.

3.2 Release

For your reference, the following list describes the features and enhancements that were added in the 3.2 release:

- **Virtual Tape Library** — This release of DR Series system supports the creation of four virtual tape library (VTL) containers. This is a new container type introduced in this release. The VTL emulation will be for two types of libraries:

a. The Standard STK L700 library with 10 Ultrium 3850 LTO4 drives

b. An OEM – Dell version of the same library.

Each library will be initially instantiated with 10 tapes of either of the following tapes sizes 10GB, 50GB, 100GB, 200GB, 400GB and 800GB. Additional capability is provided to append new media (tapes) as required.

- **Support for NDMP and iSCSI backup protocols for VTLs** — VTLs can be accessed by either NDMP or iSCSI protocols. The DR VTL will be represented as an iSCSI target to iSCSI software initiators running on media server operating systems. In the case of NDMP, the DR will host a NDMP tape server which will provide access to the VTLs serviced by the NDMP tape server. For supported Data management applications for both NDMP and iSCSI VTL access, see the *Dell DR Series System Interoperability Guide* version 3.2.

- **Encryption of Data at Rest** — Data backed up to the DR appliance can now be optionally saved in an encrypted format. When the encryption option is enabled, data is encrypted before it is saved to disk. The DR supports Industry standard FIPS 140-2 compliant 256-bit Advanced Encryption Standard (AES) encryption algorithm for encrypting and decrypting the user data. Key management is done via Static mode or an internal mode. In static mode, a global, fixed key is used to encrypt all data. In internal mode, lifecycle management s performed where keys are rotated at periodic intervals which can be set by the administrator.

- **RFE: Continue OFSCK from nearest logical point if it has been stopped during regular run (OFSCK restartability)** — In this release OFSCK has been enhanced to restart from the point it left, if it is interrupted due to a crash or any other reason. The restartability is currently provided in phase-1 of OFSCK where datastores are being crawled.

- **Replication: Performance improvement for overwrites and appends** — As part of improving the replication process a change has been made wherein only the changed blockmap entries for replicated data files is sent over the wire in lieu of the entire blockmap. This improves the replication performance and replication completion issues seen for constantly updating source data files are alleviated.

- **Replication: Multi Connection support (hidden feature, can be enabled through customer env)** — In prior releases a single connection is maintained between the source and target container pair. This enhancement is being added to enable multiple TCP connections over which replication or RDA opd-up can occur in parallel, between a pair of containers. The number of connections increased is per container for container replication. The maximum TCP connections will be 64. It can be set through env variable (REPL_CLNT_MAX_CONNS).

- **250 million file support** — This release will now support up to 250 million files for DR appliances hosting internal drives greater than 2TB.

- **Hyperscale: Supports DR4x00 and DR6000 as a License server for DR2000VMs (up to 3000)** — This release will now support DR4x00 and DR6000 systems as license server for up to 3000 DR2000v systems.

- **RFE: Provide per-job de-dupe stats at RDA/OST plug-in** — Supported Symantec (OST) and Dell (RDA) Data Management Applications will now report de-dupe savings as part of backup logs and events.

- **RFE: Enhance ODIV to report when the container was last verified for Data Integrity** — Advanced Data protection reporting will show when the container was last verified for Data integrity.

- **Container creation Wizard in GUI** — This release has a new wizard for creation of containers and assigning relevant properties such as protocol and DMA access and marker types assignments.

- **Support for Rapid CIFS and Rapid NFS on all platforms** — This release has support for Rapid CIFS and Rapid NFS on DR4x00, DR6000 and DR2000v platforms.

Open issues

The following table lists the open issues in the current release.

ID	Issue	Workaround
27538	Secure connection error occurs in Firefox when navigating to the DR Series system page: "Error code: sec_error_reused_issuer_and_serial"	Delete your old exception and use temporary exceptions for subsequent visits to the DR Series system page. **To delete your old exception:** 1. In the Firefox window, click the **<Firefox>** button and then click **<Options>**. For Windows , click **<Tools>** and then click **<Options>**. For Linux, click **<Edit>** and then **<Preferences>**. 2. Select the **<Advanced>** panel. 3. Click the **< Encryption>** tab. 4. Click **<View Certificates>** to open the Certificate Manager window. 5. In the Certificate Manager window, click the **<Servers>** tab. 6. Identify the item that corresponds to the site that generates the error. Note: The Certificate Authority (CA) for that server, the CA name, appears above the site name. 7. Click the server certificate that corresponds to the site that generates the error and press **<Delete>**. 8. Click **<OK>** when prompted to delete the exception. 9. Click the **<Authorities>** tab and select the the item that corresponds to the CA that you noted earlier and then press **<Delete>**. 10. Click **<OK>** when prompted to delete the exception. **To add a temporary exception to allow access to the page:** 1. When you go to the iDRAC page, you will see an Untrusted error. 2. Click the **<I Understand the Risks>** link at the bottom of the error. 3. Click **<Add Exception>** to open the Add Security Exception window. 4. Click **<Get Certificate>** to enter information for the Certificate Status section of the Add Security Exception window. 5. Clear the selection for **<Permanently store this exception item>**. 6. Click **<Confirm Security Exception>** to close the Add Security Exception window.
27278	On Solaris, the standalone package installation conflicts with existing packages.	If you are trying to upgrade the RDA plugin on Solaris, the command, pkgadd, will prompt for conflicting files. Respond 'y' for yes to the following prompts for installation to complete successfully. Do you want to install these conflicting files [y,n,?,q] y

ID	Issue	Workaround
		Do you want to continue with the installation of <DellRDSPlugin-64bit> [y,n,?]y
24597	CIFS usage graph shows that there are CIFS writes, when running iSCSI I/O only.	The stats reported on the iSCSI graph are accurate. Due to a bug false stats getting reported on the CIFS chart which can be ignored. This issue will be fixed in the upcoming 3.2 hot-fix.
23709	Changing machine host name doesn't get updated in all components	This issue does not cause known failures to the normal operation of the DR and can be ignored. It will be fixed in a future release.
23641	Cannot join into domain by adding DR into multiple OUs	In the **authenticate** command type as follows:`--ou topLevelOU/middleLevelOU/LowerLevelOU/ TargetOU`
20553	Specific umount options do not work for Rapid NFS.	The -l and -f options are not supported in the rdnfs unmount procedure.
20426	Replication traffic that is configured to go through an assigned bond may still run through the default bond (bond0).	If you want to run replication traffic through another bond interface, contact Technical Support to update the route.
18837	Manual modifications made to the Rapid NFS rdnfs.cfg file are not preserved between plug-in updates.	Manually modify the rdnfs.cfg again after upgrading the plug-in.
17294	An NVBU backup will stop if the DR Series system goes into maintenance mode as it moves into a read-only condition when this occurs.	Restart the datacopy operation after the DR Series system enters the operational mode.
17206	Advanced networking allows you to change the IP of an interface that is part of a replication link.	Understand your current configuration before adding new advanced networking configuration so that you do not impact the current system configuration.
16280	When you try to get replication statistics, the system displays the `Software error: Use of uninitialized value in division (/) at helper.pl line 3548` error.	This is due to the replication target not being in an operational state. Correct the replication target and refresh or use the CLI. The information is available by using the command line. We will correct this error in a future release.
16053	After you install the Rapid CIFS plugin and replication operations are performed, you receive a blue screen and the following error: `STOP 0x00000027 (parameter1, parameter2, parameter3, parameter4) RDR_FILE_SYSTEM`	This is a Microsoft bug that occurs on shared network resources on a computer that is running Windows Server 2008 R2 or Windows 7. To fix, see Microsoft Knowledge Base article 2584874.

Known issues and resolutions

The following table lists known issues and the related resolutions for the current DR Series system release.

ID	Issue	Resolution
28032	The DR4000 crashes when breaking a replication relationship and running fsck.	This issue has been addressed in 3.2.0.2.
27847	RDNFS plugin issue with Oracle Linux 7.0.	This issue has been addressed in 3.2.0.2.
27736, 27671	Replication fix for large configurations.	This issue has been addressed in 3.2.0.2.
26191	System cleaner timeout fix.	This issue has been addressed in 3.2.0.2.
28439	After updating to release 3.2.0.1, the fan speed was 8K but should be 10K by default.	This has been fixed in release 3.2.0.2.

Resolutions for earlier releases

The following table lists known issues, descriptions, and related solutions or workarounds for earlier releases of the DR Series system.

ID	Issue	Description	Workaround/Solution
20870	RPC replication errors may be seen during replication from source DR Series system to target DR Series system.		The primary and secondary replication target should have the same MTU setting. Replication proceeds once the MTU is set to the same as the replica target. This recommendation has been added to the *Dell DR Series System Administrator's Guide* in release 3.2.0.1.
27074	iSCSI VTL configuration with IBM Tivoli Storage Manager 7.1.1 fails at audit tape library.		Corrected in release 3.2.0.1.
27074	Symantec Backup Exec inventory issue.		Corrected in release 3.2.0.1.
27013	Issue with an ofsck refcount record boundary calculation.		Corrected in release 3.2.0.1.
26721	NDMP VTL device offline issue.		Corrected in release 3.2.0.1.
26548	Kernel panic fix for VTL running in parallel with other protocol heavy replication.		Addressed in release 3.2.0.1.
26493	Option added to increase RDA retry capability in registry working with Tech Support.		Addressed in release 3.2.0.1.
26282	Support for RDA for Sparc.		Addressed in release 3.2.0.1.
26265	DR plugin DellDRLogSvc service does not always stop when uninstalling NetVault.		Corrected in release 3.2.0.1.

ID	Issue	Description	Workaround/Solution
26190	Various VTL updates for release 3.2.6 ported to 3.2.0.1 code.		Addressed in release 3.2.0.1.
26128	RFE: OFSCK: re-organized refcnt record structure to optimize disk space.		Addressed in release 3.2.0.1.
26113	NFS fix for moujnt during stats call.		Corrected in release 3.2.0.1.
25958	Veeam ingest and replication issue for large file overwrite corner case.		Corrected in release 3.2.0.1.
25860	NetVault Backup stats file takes a long time in closing.		Corrected in release 3.2.0.1.
25675	ocafsd crashed on cleaner code due to corner case.		Corrected in release 3.2.0.1.
25591	Space handling improvements related to global space thresholds and per enclosure thresholds for Rapid NFS and Rapid CIFS.		Addressed in release 3.2.0.1.
25584	Improved seeding for CIFS on slow networks		Addressed in release 3.2.0.1.
25393	Cleaner is now set to run during idle time even when not in schedule. Since the machine is idle cleaning will occur; it will be stopped if I/O is started.		Addressed in release 3.2.0.1.
25135	Let cleaner finish if it is in runonce mode even if there is a cleaner schedule stop.		Addressed in release 3.2.0.1.
25091	cifs_iobuf_alloc fix for iSCSI.		Addressed in release 3.2.0.1.
24998	Fixed complex replication deadlock scenario involving overwrites and aborts.		Addressed in release 3.2.0.1.
24855	VTL subsystem starts if container name contains "ISCSI" or "NDMP" even though the container type is not 'vtl'.		Corrected in release 3.2.0.1.
24809	Corner case fix for cascaded replication.		Addressed in release 3.2.0.1.
24738	Validate the timestamps in mds supplied by user.		Addressed in release 3.2.0.1.
24701	DR VTL was showing support for hardware encryption, which is not accurate. Removed this option as Symantec was allowing encryption setting. (SPIN, SPOUT and publishing in MODE SENSE)		Corrected in release 3.2.0.1.
24689	Some of the documentation PDF links were not working in the DR Series system GUI.		Corrected in release 3.2.0.1.
24579	Unable to log in using domain user starting with letter "j".		Corrected in release 3.2.0.1.
24571	Enclosure showing as "Not Configured" when another enclosure is added, which changed ID numbers.		Corrected in release 3.2.0.1.
23887	Corner case where cleaner schedule will not stop cleaner from running, nor does the cleaner stop command.		Corrected in release 3.2.0.1.

ID	Issue	Description	Workaround/Solution
23797	NDMP user name must be changed to ndmp_user in GUI.		Addressed in release 3.2.0.1.
24312	Certain hypervisor host NICs will perform poorly and may require a driver update to fully support VMQ feature.		Note that this works as designed. To resolve this issue you should check on your Hypervisor host NIC feature list and update the driver to the latest version.
			For example, Broadcom NetXtreme I and NetXtreme II Ethernet adapter needs to get driver update to 17.6.0 or above to add VMQ support, otherwise you may experience performance degradation during normal operations.
			Driver for NetXtreme I and NetXtreme II Ethernet adapter: **http://www.dell.com/support/home/us/en/19/Drivers/DriversDetails?driverId=CYKKJ&osCode=MWS80&fileId=3197327398&languageCode=EN&categoryId=NI**
			Firmware for NetXtreme I and NetXtreme II Ethernet adapter: **http://www.dell.com/support/home/us/en/19/Drivers/DriversDetails?driverId=P32M4&osCode=MWS80&fileId=3197328666&languageCode=EN&categoryId=NI**
20539	After installing Rapid CIFS Filter Driver, an incorrect driver version is displayed.		If at the end of successful installation, the version of the driver loaded (which can be checked using rdcifsctl.exe driver -q) is lower than the version of the installed package (listed under Control Panel > Installed products), then you should restart the machine. This issue can occur if the system fails to rename/delete driver files under the system folder.

ID	Issue	Description	Workaround/Solution
20456	Installation of SSL Certificate file in the GUI failed on Internet Explorer (IE) when using Remote Desktop.		When uploading the certificate file, the GUI uses the file name with the whole path, which works when uploading on a local system. When using RDP, in the IE browser settings, you need to disable the "Include local directory path .." setting, as follows. 1. Under Internet Options > Security, in the "Internet" or "Intranet" area, click **Custom Level**. 2. In the Security settings, scroll down to **Include local directory path when uploading files to a server** and ensure it is not selected. 3. Click **OK** and the refresh the browser.
20424	The following message may appear on the console: "vx_nospace..." even if the system still has space.		This message is a result of trying to allocate a large contiguous block. The allocation of the contiguous block might fail, in which case, allocation continues without trying to keep the file contiguous. The vx_nospace error may appear, and this message can be safely ignored.
20188	When using cascaded replication for a large number of files (1M+), it may appear to take some time to see the actual files on the secondary target.		Namespace resync has to complete on the source and primary target and then data transfer has to start on both before transferring to the secondary target. Once the namespace resync completes on the first replication pair, resync then starts on the second replication pair. Until the namespace resync completes on the second pair, no data is transferred.

ID	Issue	Description	Workaround/Solution
			This ensures the namespace resync completes faster and the snapshot can be deleted faster.
20009	User is able to create/write a file/directory in the share/container even though the user has only read permissions (file-level/security-level) on the share.		You can block write/create operations for a particular domain user by adding an extra 'Deny' 'write' acl for that user. (This issue occurs on the Windows 2008 client.)
19552	When there is no data to replicate (for example, replication state is INSYNC), replication statistics might indicate a target is running out of disk space even though the target has enough space.		This occurs because the replication process detected target space full condition when there is pending data to be replicated, but, at a later time, that pending data was removed and replication was insync. We do not query target disk state when replication is idle. On a similar note, we might not indicate target space full condition when there is no data to replicate as well. An error state in the replication statistics makes sense only when replication is not in sync.
19485	Adding a host name does not work if you use a FQDN and the host name has letters in it.		You can add names as long as the name is made only of numbers and it is not a FQDN where a period is used in the name string.
19186	If you change the hostname or the domain name after setting up the DR Rapid plug-in, then you may get the wrong backup mode pass-through or de-dupe.		Uninstall and then reinstall the DR Rapid plug-in for this information to be set correctly.
18848	In the Internet Explorer 9 and 10 browsers, when you navigate to a DR Series system from within **Global View**, and then log out of that system and return to **Global View**, you are logged out of the machine running the **Global View**.		This issue does not occur with any other supported browser. For browser information, see the *Dell DR Series System Interoperability Guide*.
18178	The AIO-Stress tool fails when using Rapid NFS.		Rapid NFS, which uses FUSE, does not support AIO.

ID	Issue	Description	Workaround/Solution
18501	Rapid NFS performance drops significantly with parallel NFS ingest from same client.		When using Rapid NFS on your client, it is suggested that you do not run NFS from the same client to the DR Series system in parallel as this will affect your overall performance.
18144	A `File name too long` error is displayed after trying to create a directory structure that exceeded 522 directories.		The limit on a path within a mount point is 4096 bytes.
18022	Windows 2008 and newer servers cannot assign local users (other than administrator) to Access Control Lists (ACLs). Windows 2008 and later does not query the local users on the DR Series platform.		Assign ACLs to the built-in Administrator user on the DR Series platform if using Windows 2008 and later.
17661	If the cable is removed from a network interface and the network is restarted, the interface does not get an IP. If you then reinsert the cable, you must restart the network to get an IP.		Ensure that the interfaces that you want to add or modify are connected when making **Advanced Networking** changes. To restart the network, type `network --restart` at the CLI command line.
17193	DR Rapid critical message `Alert RDS Restore failed` reported on DR4x00 system. In addition to the error, an event is generated internally in the DR Rapid plug-in when the read operation fails		The DR Rapid plug-in generates events for any kind of read failures.
16745, 17621	If you have the same client for OST and RDS operations and you manually update the client connections, unexpected messages are displayed as: `[root@swsys-49 ~]# stats --clients --type RDA RDA Client(s) Type plug-in OS Backup Software Last Access Connection(s) Mode r310-sys-39 RDS -- -- -- -- 0 Default` `[root@swsys-49 ~]# ost --update_client --name r310- sys-39 --mode auto Client is connected with default values. Please update to non-default values.` In Linux systems, the RDS plug-in installation fails if the OST plug-in is already installed in the system		To work around the issue, use a different client for OST and RDS rather than sharing the same machine for both protocols.

ID	Issue	Description	Workaround/Solution
16660	When BE has an issue connecting to the server, it may not return detailed errors to the OST plug-in.		See the client log files for the detailed information on the connection failure.
16427	When upgrading your system using the iDRAC, if the upgrade package also contains new iDRAC firmware, the upgrade fails to complete.		Upgrade the DR code using the CLI or GUI using the normal network interface and not the iDRAC.
16053	After you install the Rapid CIFS plugin and replication operations are performed, you receive a blue screen and the following error: `STOP 0x00000027 (parameter1, parameter2, parameter3, parameter4) RDR_FILE_SYSTEM`		This is a Microsoft bug that occurs on shared network resources on a computer that is running Windows Server 2008 R2 or Windows 7. To fix, see Microsoft Knowledge Base article 2584874.
9433	Global hot spare is not automatically configured after replacing the GHS drive in slot 0.		If the global hot spare is replaced, run maintenance by using the `--make_standby` command to make the drive a global hot spare. Contact Dell Technical Support for this action.
24416	RM recovery errors when expansion enclosures are attached.		Corrected in version 3.2.
24134	Server signing reporting errors.		Corrected in version 3.2.
24081, 24080, 24079, 24047, 23676, 23252, 23229, 23067, 23016, 22710, 21455	Various RDCIFS stability improvements under heavy load.		Addressed in version 3.2.
23876, 21453	Eth speed may show value on unused interfaces. "N/A" is now shown for speed and duplex setting on unused interfaces.		Corrected in version 3.2.
23702	WAM2 fan improvements.		Addressed in version 3.2.
22581, 22478	DR2000v evaluation license errors in GUI.		Corrected in version 3.2.

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ID	Issue	Description	Workaround/Solution
22531	GUI refresh error "An error occurred while trying to retrieve Graph."		Corrected in version 3.2.
22104	Likewise failed to start due to setname resolution issue.		In this case, use the IP to avoid the error in code.
22004	RDA improvements for OpDup handling.		Addressed in version 3.2.
21733, 19476, 18558	Improvements made in replication overwrite logic for large file workflows that append the file while being replicated.		Addressed in version 3.2.
21514	Issues with Global View when alternating between administrator and domain user.		Corrected in version 3.2.
20928, 21980	Cleaner error occurs on upgrading 1.X to 3.X.		In version 3.2, the Cleaner now handles this condition without technical support intervention.
20585, 20584, 20581,2 0466, 20465, 19200	Various security improvements.		Addressed in version 3.2.
20296	GUI would not accept CIFS password.		Addition of special characters is now allowed in the user password field for CIFS in version 3.2.
19849	Advanced networking shows gateways that are invalid		Corrected in version 3.2.
19214, 17141	Special characters may be accepted that prevent e-mail or fields in content dialog boxes from working.		In version 3.2, these special characters are no longer allowed.
14855	Option to hide or unhide a CIFS share		Addressed in version 3.2.
14700	VTL support for NDMP and iSCSI protocols.		Addressed in version 3.2.
14695	UPS power down details are now documented in the *Dell DR Series Administrator's Guide*		Addressed in version 3.2.
22168	RDCIFS was listed as supported on Windows 2003 in the *Dell DR Series System Interoperability Guide*, but this is inaccurate. Windows 2003 does not support the command set required to support RDCIFS.		Updated the *Dell DR Series System Interoperability Guide* for 3.1.2 to reflect the correct support of RDCIFS.
22145	RDS OpDup was failing across the firewall as the TCP connection timed out during extended idle times. In this release, we have added keep alive on the RDS OpDup path connection.		Corrected in version 3.1.2.

ID	Issue	Description	Workaround/Solution
21748	DR2000v FS was failing during boot on some legacy Intel and AMD processors.		Corrected in version 3.1.2.
20766	DR Series deployment using a static IP may come up in maintenance mode during initial boot as default IP is not being assigned.		Corrected in version 3.1.2.
21893	Bash Security Fix - BASH Remote Code Execution Vulnerability (ShellShock).		Corrected in version 3.1.1.
21873	During an upgrade from 2.x to 3.x under some unusual corner cases, the latest configuration database did not get backed up and tech support had to correct the database.		Corrected in version 3.1.1.
21765	System with in-sync replication would show pending bytes.		Corrected in version 3.1.1.
21690	During seeding, a network interruption caused failure of seeding. When deleting a container and attempting to reboot the system, the system entered Maintenance Mode.		Corrected in version 3.1.1.
21667, 21079, 21000	Slow performance occurred on noisy networks.		Additional TCP options were enabled in the 3.1.1 release for more effective TCP error recovery.
21601	A Perc issue occurred if the drive greater than 2TB sent a UnitAttention check condition to the Perc in descriptor format. This could cause the drive to be taken offline.		Corrected in version 3.1.1 with new Perc firmware (21.3.0-0009).
21538	Packet retransmissions may occur with replication packets.		Customers should turn off Deep Packet Inspection on replication packets (especially port 9916), including GAV(gateway antivirus), IPS (Intrusion Prevention Service), Anti-Spyware, etc. To deal with TCP retransmission issues, the following is a check list for troubleshooting packet retransmission on the Sonicwall side: 1. Check MTU settings. The MTU settings are located as follows: • Firmware 6.x: Click Advanced >

ID	Issue	Description	Workaround/Solution
			Ethernet tab. Scroll to the bottom of the page and enter the desired MTU size.

- SonicOS Standard: Click Network -> Settings -> Ethernet Tab.

- SonicOS Enhanced: Click Network -> Interfaces. Click the Configure icon next to the WAN interface. Click the Advanced tab.

> **NOTE:** It is recommended to check the 'Fragment outbound packets larger than WAN MTU' if the MTU is set below the default of 1500. Use the 'Update' button to process the changes entered. Reboot Sonicwall to make the change effective.

2. Fragment Packet Handling should be enabled.

3. Pre-shared Key mismatch should be checked.

4. Check the gateway IP address and firewall name or serial number specified in the VPN policy on each end of the tunnel.

5. Disable the hardware accelerator from the diagnostics page.

6. Lower the encryption settings.

ID	Issue	Description	Workaround/Solution
			7. Check the upstream device configuration.
			8. Check for the NAT Traversal option.
			9. On the computer where GVC is installed, make sure the NAT Traversal option is disabled under Connection Properties --> Peers --> Edit --> NAT - Traversal.
21468	If the IP address changed you could not modify a broken replication connection in the GUI.		Corrected in version 3.1.1.
21405	A Solaris client running made an invalid request to UDP which caused the DR to go into Maintenance Mode.		Corrected in version 3.1.1.
21382	Adding a machine to Global View did not work under some rare conditions due to invalid characters getting persisted into the config file.		Corrected in version 3.1.1.
21349	Replication Disconnect Alerts could occur during replication on slower LAN connections or noisy networks. A tunable parameter has been added (for tech support) that can be increased to remove the alert for transient failures.		Corrected in version 3.1.1.
21314, 21277, 21204	Replication race condition that could result in a core file on DR when using Veeam or SQL.		Corrected in version 3.1.1.
21181	In the GUI, after a successful registration, license registration details do not appear to be updated when you to try to edit and save registration details.		Corrected in version 3.1.1.
21075	After running advanced networking commands, the --show output displays incorrect MAC.		Corrected in version 3.1.
20177	Global View does not work if a group name contains the "$" character.		Corrected in version 3.1.
20832	The RDA plugin details tab displays as a plugin for Symantec OST. It should be updated to show as a plugin for NetVault.		Corrected in version 3.1.
20767, 18176	When a DR Series system is part of the Global View database and you change the DR Series system's name by using the `system --setname` command (and not from the GUI), the new name is not reflected.		Corrected in version 3.1.

ID	Issue	Description	Workaround/Solution
20763	System configuration screen displays DHCP although it is set to static.		Corrected in version 3.1.
20762, 20626	While performing recovery using USB, it is not possible to recover with the payload on the DR Series system. The payload on the USB is used; and, if the version on the USB is higher, the recovery process upgrades the DR Series system. The recovery process should use the payload on the DR Series system such that system is restored to the same version.		Corrected in version 3.1. Now, the recovery operation will only use the payload on the DR Series system. The reset operation will pick up the payload on the USB.
20755	Extra entries are displayed in Global View after a hostname is changed for a managed unit.		Corrected in version 3.1.
20705	Need to enable DR2000v as replication target.		Corrected in version 3.1.
20689	Need to handle overwrites of old format blockmaps remaining after an upgrade to 3.x.		Corrected in version 3.1.
20627	Under certain conditions, "replication is disconnected" error occurs when running replication between two systems with no scheduling.		Corrected in version 3.1.
20565	After direct upgrade from 1.1.0.x or lower to 3.0.x, replication does not work if the upgrade occurred before the containers were in sync.		Corrected in version 3.1.
20284	Dell OpenManage Server Administrator contains a cross-site scripting vulnerability.		Corrected in version 3.1. Now, port 1311 used by Dell Open Manager is blocked.
20067, 20036	DR Series system upgrade process may fail due to an error condition on the server LifeCycle Controller - Unified Server Configurator.		These packages are optional in version 3.1, so if they fail to load it will not stop the unit from operating.
20064	Incorrect or out of date statistics may be displayed when replication is stopped or a connection is disconnected in a cascaded replication.		Corrected in version 3.1.
19851	CIFS container paths display incorrectly with advanced networking.		Corrected in version 3.1.
19848	OST installer does not work with NBU 7.6		Corrected in version 3.1.
19791, 19775	The incorrect IP address displays on the system configuration screen in the GUI.		Corrected in version 3.1.
19762	Add the ability to mount subdirectories.		Added in version 3.1.
19756	CLI Online Help shows "RDA" in a few places where it should show "RDS"		Corrected in version 3.1.

ID	Issue	Description	Workaround/Solution
19655	smbd fix for unique corner case that causes a core		Corrected in version 3.1.
19614	Need to remove error reporting on the following errors: OST images not found and vRanger errors		Corrected in version 3.1.
19576	If you set up two bond interfaces with two different subnets but use the same static IP address, the configuration service fails.		Corrected in version 3.1.
19233	Need to clear the error, "file system is corrupt and please run consistency checker," after a system --init		Corrected in version 3.1.
19184	During container delete, cleaner does not start.		Corrected in version 3.1.
19091	Cannot collect diagnostics if an upgrade fails.		Corrected in version 3.1. Using the "diagnostics --start --service" command can start the diagnostic service if it is down after upgrade failure. Once the service is up, diagnostics can be collected.
18833	The **Reboot** link is enabled after a DR Series system software upgrade.		Corrected in version 3.1. The Reboot link is enabled during upgrade and has now been disabled during upgrade. It can be selected once the upgrade is complete.
18742, 18629	With CIFS, backups are failing, with error "The specified network name is no longer available..." after upgrade.		Corrected in version 3.1.
18664	On the DR Series system log on page, if you enter an invalid user name, the `Your password was not correct` error displays.		Corrected in version 3.1. The correct error message is now displayed.
18661	If you power on a new MD1200 expansion enclosure (that is cabled in) while the base DR Series system is operational, the machine may go into maintenance mode with the following reason error code: `One of the storage enclosure has become offline, please power-off the appliance, fix the connectivity issues and power-on the appliance.`		Corrected in version 3.1.
18154	Include racadm in DR image so that the DRAC settings can be managed from inside of the OS instead of lifecycle controller.		Corrected in version 3.1.

ID	Issue	Description	Workaround/Solution
18124	Ability to get encryption on OST replication op-dup traffic.		Added in version 3.1.
17586	After the DR Rapid device is created, you cannot change the number of streams supported for the device.		Corrected in NVBU 10.0.
17437	During a DR Rapid datacopy operation if optimized duplication-replication fails, a non-optimized replication is performed when the devices are available again.		Corrected in version 3.1.1.
17355	The Dell PowerVault MD1200 Expansion Shelf Setup Guide displays incorrect configurations for the DR Series system.		Corrected in version 3.1.
17076	The NetVault GUI crashes if the datacopy operation fails due to a network error.		Corrected in NVBU 10.0.
15573	Need to address potential vulnerability prone to cross-site scripting attacks.		Corrected in version 3.1.
15570	Need to disable SSLv2 on port 443.		Corrected in version 3.1.
13271	Ability to provide observable data on cleaner production		Added in version 3.1.
20111	Intermittent timeouts on OST backup, OST OPDUP replication and native DR replication.		Corrected in the 3.0.0.2 release.
19984, 19979	After upgrade to 3.0.0.1 some replication disconnection errors are seen.		Corrected in the 3.0.0.2 release.
19773	If you install the 3.0.0.1 RDA plugin from the DR Series system and then try to uninstall in Windows 2008 R2, you get an error.		Corrected in the 3.0.0.2 release.
19759	After creating or deleting a container, the CLI command `stats --system` and the GUI are not responding.		Corrected in the 3.0.0.2 release.
19491	Error occurs when replicating a large file (1 TB+) along with 10 million+ small files. Scatter_repl_io error under a very specific ingest pattern mixing very large and very small write operations.		Corrected in the 3.0.0.2 release.
19528, 8049	Cannot create a container starting with a number.		Container names must start with a letter. Container names starting with a number are not supported.
19250	When using the CLI to create a container, this container is created with a marker setting of none.		If you are using a backup application that requires a marker, set the appropriate marker using the CLI command. If this is not done,

ID	Issue	Description	Workaround/Solution
			then the savings level will not be optimal. You can set the marker in the GUI at the same time you are creating the container.
19087	In daily statistics, we report that the compression savings is 0 percent. This is simply a reporting issue.		This is correct behavior, as option has been removed from daily report. Use the following workaround to get the deduplication and compression percentage: Use `stats --system` or use **Global View Savings** (mouse over the **Savings** column).
18857	When replicating between a large number of containers using a many to one relationship, some replication machines are displayed as **Disconnected** in the **Peer Status** screen.		This is simply a display issue and the replications eventually go into an **Online** or **Replicating** status.
18865	In some rare instances, changing the time and timezone at the same time caused the system to go into maintenance mode.		Corrected in the 3.0.0.1 release.
18833	The **Reboot** link is enabled after a DR Series system software upgrade.		Corrected in the 3.1 release. The Reboot link is enabled during upgrade and has now been disabled during upgrade. It can be selected once the upgrade is complete.
18664	On the DR Series system log on page, if you enter an invalid user name, the `Your password was not correct` error displays.		Corrected in the 3.1 release. The correct error message is now displayed.
18712	OST plug-in failure occurred using BE2010 and BE2012.		Corrected in the 3.0.0.1 release.
18706	Improve ingest performance during the cleaner compaction phase for situations in which ingest and cleaner are running at the same time.		Corrected in the 3.0.0.1 release
18540	The OST plug-in was not seen in the Windows Media server Add-Remove Programs.		When you had multiple users for a Backup Exec server, they were able to run jobs while logged in as a different user. However, the only person that could see if the OST plug- ins were installed

ID	Issue	Description	Workaround/Solution
			and what version was running, or were able to uninstall the plug-in, was the original user who was logged on when the plug-in was installed. Corrected in the 3.0.0.1 release
18453	The error message that resulted from executing the container -- delete --name [container_name] command when the container was not empty needed more information.		Corrected in the 3.0.0.1 release
18452	Update the GUI help menu to include other DR Series system documents in addition to the DR Series Admininistrator Guide.		Corrected in the 3.0.0.1 release.
18451	A wrong message displayed when you entered the wrong container name in the connection -- disable command. When you issued a connection -- disable --name [name of container that does not exist on the DR] --type OST the following message appeared: Failed to update connection entry - Container "use a container name that is not a container on the DR" is not configured with OST connection type.		Corrected in the 3.0.0.1 release. The message more accurately describes the error condition.
18393	When the machine was down or rebooted, the usage graph information was not collected and you saw a blank in the usage graphs upon reboot.		Corrected in the 3.0.0.1 release.
18375	When you widen the scope to over ten hours or more, the maximum CIFS connections reduced, and the usage graph statistical output was not accurate.		Corrected in the 3.0.0.1 release. The graph now uses MAX aggregate instead of AVERAGE to calculate max values. This change was implemented for all graphs (not only for CIFS connections).
18338	After naming a DR and successfully joining the domain, a Windows server within the domain using domain credentials could not access DR containers. DR containers are configured to allow access to that client; however, you could only access the container by using DR local administrator credentials. This was caused by you renaming the DR during configuration or changing the name in the GUI or CLI by issuing the #system --setname --name <with a name exceeding 15 characters>.		When changing the DR host name, the GUI will display a message that no more than 15 characters are allowed as a host name.
18325	When using Advanced Networking and configuring 2 bonds it showed the same host name for both IP addresses.		Corrected in the 3.0.0.1 release.

ID	Issue	Description	Workaround/Solution
18275	After upgrading your system, backup jobs failed and containers became inaccessible due to the DR Series system leaving the domain.		Corrected in the 3.0.0.1 release.
18215	If you created a CIFS user named root or service, you could not delete it.		Corrected in the 3.0.0.1 release.
18151, 17997, 14534	Addition of additional DMA markers and changes to marker code for the DMAs that need marker detection. The BridgeHead, Networker and Unix_Dump markers must be set explicitly on a container and are not part of the Auto marker option.		Corrected in the 3.0.0.1 release. The Auto setting (default) will recognize markers for the 2.X supported DMACommVault| TSM| ARCserve| HP_DataProtector. Newer Markers must be explicitly set using the appropriate selection BridgeHead, Networker or Unix_Dump.
18070	The command -system – -- show --hardware | grep -i NIC does not list 1 Gb NICs if you have 10 Gb in the system.		Corrected in the 3.0.0.1 release.
18001	The - .bashrc is missing rda from the complete -F line.		Corrected in the 3.0.0.1 release.
17999	During a system upgrade, the software upgrade stopped because it exited the CLI shell.		A message has been added instructing you to not interrupt the upgrade process.
17863	After upgrading your system, you are prompted to reboot. The GUI will indicate that the reboot takes up to 10 minutes, which is the best case scenario. It can actually take up to 30 minutes, during which time your user interface can appear frozen.		Corrected in the 3.0.0.1 release.
17796	When the total number of Domain Controllers is very large, issues can occur when you try to add the machine to the domain.		Corrected in the 3.0.0.1 release.
17702	The RDS plug-in download page does not list the hybrid installer for the Windows operating system. It only lists the individual installers for the 32- bit and 64-bit platforms.		Corrected in the 3.0.0.1 release.
17672	You are unable to change default NetVault RDA password from the GUI when you use the system for the first time and no clients are connected.		Corrected in the 3.0.0.1 release.
17660	You get a platform not supported error when you upgrade the SUSE 11 NVBU plug-in from 32–bit to 64–bit on the same system.		Corrected in the 3.0.0.1 release.

ID	Issue	Description	Workaround/Solution
17637	Ability to move the Integrated Dell Remote Access Controller (iDRAC) from the built-in device to the LOM devices.		Use the command maintenance – remote_access –enable – device lomX.
17586	After the RDA device is created, you cannot change the number of streams supported for the device.		In release 3.1, for NVBU 10.0, this issue has been corrected. For NVBU 9.2, Tech Support has a process to change the streams.
17622	In Linux systems, the RDS standalone plug-in uninstalled and removed shared libraries under oca-libs making RDA devices unusable on the NetVault Backup server. If the RDS standalone package is uninstalled, NetVault Backup will stop working unless you install another RDA standalone package of different version or upgrade NVBU again (if new NVBU version is not present, upgrade to the same NVBU version already installed on the machine).		Corrected in the 3.0.0.1 release.
17440, 16835, 14516	Various browser issues. You were unable to select a row properly in Chrome. IE10 with Document Mode IE7 Standards did not display the Capacity chart. Chrome displayed a Request unsuccessful message when you tried to fix a password issue in the wizard.		Corrected in the 3.0.0.1 release.
15609, 17349, 18558	Improvements on savings between SRC and TGT for some specific backup workflows.		Corrected in the 3.0.0.1 release.
15492	Would like the GUI to show savings factor on the dashboard in addition to just showing percentage savings.		Corrected in the 3.0.0.1 release.
15267	Improvements to the file system consistency checker for some rare corner case scenarios.		Corrected in the 3.0.0.1 release.
14727	Compression in the Best savings mode has been improved.		Corrected in the 3.0.0.1 release. The Compression option has been removed from the GUI and is now modified by using the command line interface only.
12362	If the unit was booted with only one PS and then a second PS was plugged in, the state was not shown as being changed.		Corrected in the 3.0.0.1 release.

ID	Issue	Description	Workaround/Solution
8520	Make other documentation available by using the GUI Help menu.		Additional documentation, such as the CLI and Interop guides, are now available in Help.
8490	The usage graph legends were long and had similar colors, which could be confusing.		Corrected in the 3.0.0.1 release. Filters have been added to allow you to choose one or more options to be shown.
7041	You could not complete an NFS mount on a Solaris client.		Corrected in the 3.0.0.1 release.
18218	Under certain failure scenarios, the DR Series system entered maintenance mode every few minutes when using Auto markers.		Corrected in the 2.1.0.2 release.
18189	Intermittently during upgrade, certain firmware components reported the firmware version improperly. This caused the upgrade code to report a failure.		Corrected in the 2.1.0.2 release.
17821	Cannot configure an individual interface in the GUI.		This is expected behavior; the CLI must be used for advanced networking operations. In release 2.1.0.1, the GUI was updated to prevent usage of Edit Interface when an interface is disabled. Upgrade the DR code using the CLI or GUI using the normal network interface and not the iDRAC.
17820	ARCserve 16 support not documented in *Dell DR Series System Interoperability Guide*.		Corrected in the 2.1.0.1 release.
17791	"Warning: No loadable sections found in added symbol-file system-supplied DSO" error occurs when data deletion and the cleaner are running simultaneously.		Corrected in the 2.1.0.1 release. Upgrade the DR code using the CLI or GUI using the normal network interface and not the iDRAC.
17790	"Warning: No loadable sections found in added symbol-file system-supplied DSO" error occurs during deduplication.		Corrected in the 2.1.0.1 release. Upgrade the DR code using the CLI or GUI using the normal network interface and not the iDRAC.
17788	Restore Manager fails during init mode if Mac address changed.		Corrected in the 2.1.0.1 release. Upgrade the DR code using the CLI or GUI

ID	Issue	Description	Workaround/Solution
			using the normal network interface and not the iDRAC.
17772	Backup Exec 2010 crashes in libstspidell.dll.		Corrected in the 2.1.0.1 release. Upgrade the DR code using the CLI or GUI using the normal network interface and not the iDRAC.
17766	"Program terminated with signal 6, Aborted" error occurs during replication.		Corrected in the 2.1.0.1 release. Upgrade the DR code using the CLI or GUI using the normal network interface and not the iDRAC.
17765	The `alerts --email` commands fail to write to the database.		Corrected in the 2.1.0.1 release. Upgrade the DR code using the CLI or GUI using the normal network interface and not the iDRAC.
17515	The command `stats --clients --type` does not work in the CLI.		Corrected in the 2.1.0.1 release.
17329	Correct the race condition in monitoring the subsystem that can place the unit in maintenance mode.		Corrected in the 2.1 release. Race condition is identified.
17371	There is an error with the web server response code under a special condition.		Corrected in the 2.1 release.
14751	The UI can sometimes show all the interfaces at 10 G or 1 G specification depending on the network ports that are connected and active.		Corrected in the 2.1 release. This interface is redesigned.
17315	SMBD core in security inheritance handling on upgraded container.		Corrected in the 2.1 release.
17226	The GUI wizard displays an error when configuring static IP.		Corrected in the 2.1 release.
17216	Security SSL is updated.		Corrected in the 2.1 release.
17070	HP Data Protector Marker support is added.		Corrected in the 2.1 release.
10552	The GUI and CLI must allow the user to see the files that are getting replicated.		Corrected in the 1.1 release. Added active files tables to the statistics container pages.
15758	Ability to edit the hosts file using the CLI.		Corrected in the 2.1 release. Provided a method to update the hosts file via the CLI using the `network --host --add` command.

ID	Issue	Description	Workaround/Solution
15908	All 6 interfaces for 1G option on the DR4100 system are not shown in GUI.		Corrected in the 2.1 release. All interfaces are now displayed in the GUI for various configuration options.
15943	The contact information does not display in the GUI after the **submit** button is clicked if mail relay host is not configured.		Corrected in the 2.1 release. Corrected the logic to not send the notification if the email relay host is not set.
15947	The wrong error message is displayed when removing all the NTP servers from the GUI.		Corrected in the 2.1 release.
16262	A wrong command syntax is seen for the `ost --limit` command		Corrected in the 2.1 release.
16322	For better support capability, **ocafsd dumps** on diagnostics must be allowed.		Corrected in the 2.1 release.
16515	Pending bytes for replication must be displayed.		Corrected in the 2.1 release. Provided pending bytes in the `stats --replication` output.
16516	Extracting stack trace in the diagnostics bundle functionality must be added for better support diagnostics.		Corrected in the 2.1 release. The functionality has been added to the diagnostic gathering routine.
16916	Replication fails due to the firewall packet inspection and modification.		Corrected in the 2.1 release. Added replication checksum to all packets. The firewall vendor can be engaged if necessary to modify inspection parameters for replication traffic.
16963	Functionality required to change the behavior on update to disable the root user if it is enabled.		During any upgrade, the root user login is disabled (if it is enabled) which is an interface only Technical Support uses.
17167	The title in a few of the disk usage graphs must be made consistent with the others.		Corrected in the 2.1 release.
17184	Cannot install the BUE 32–bit plugin.		Corrected in the 2.1 release.
10849, 11520, 11636, 7752, 14892,	Required support for Advanced Networking feature to allow configuration of multiple networks on a single unit.		Corrected in the 2.1 release.

ID	Issue	Description	Workaround/Solution
15297, 15667, 15945			
14228, 16165	Service mode **ocafsck** reports only the first error in that stream.		Corrected in the 2.1 release. Improved the **ocadsck** logic to report all errors that occur in a stream.
15058, 15956	FS cache modifications and improvements are required.		Corrected in the 2.1 release.
15967, 16005	The core directories are not cleaned up after the diagnostic cleanup routine.		Corrected in the 2.1 release.
16441, 17067	On a specific container, replication appears to stop at 99 percent and then restarts.		Corrected in the 2.1 release. Corrected the race condition in the code that caused the issue.
16707, 13296	Unable to add a domain name that contains an underscore.		Corrected in the 2.1 release.
16937, 16904, 16806	Replication fails in a specific scenario when trying to decompress a file created in 1.x and replicated in 2.x.		Corrected in the 2.1 release. Resolved the issue in the decompression logic that caused the issue.
7752, 14697, 15925	Advanced Networking support replication over other interfaces required.		Corrected in the 2.1 release. Support for Advanced Networking feature to allow configuration of multiple networks on a single unit.
16144	Critical event shows "Datacheck detected potential namespace inconsistency. Run file system scan as soon as possible."	Maintenance mode alarm falsely triggered due to code returning enoent instead of ebusy.	Corrected in the 2.1 release.
16679	File system stat call consumes more cycles than expected.	Performance enhancement for file system stat call.	Corrected in the 2.1 release.
16670	Deduplication failure in a specific ingest workflow.	Failure during inline deduplication when accessing many offsets. This results in a system core.	Corrected in the 2.0.1.1 release.
16655/1 6486	Relay server does not work when using an IP instead of a name.	When setting the relay server you were limited to using only its name.	Corrected in the 2.0.1.1 and 2.1 releases, respectively. You can now use a name, IP or FQDN.

ID	Issue	Description	Workaround/Solution
16498	32-bit OST plugin for NBU is missing from 2.0.1.0 build. GUI URL pointing to 64-bit plugin.	When using release 2.0.1.0, the 32-bit OST plugin is missing. The URL for this plugin points to the 64-bit version.	Corrected in the 2.1 release. You now have access to both plugins.
16425	GUI incorrectly displaying DNS suffix as none.	GUI incorrectly displaying DNS suffix as none. In the CLI this is displayed correctly.	Corrected the issue in the script file that was parsing this information.
16420	Unable to install plugin on specific 32-bit Windows2013 NBU server.	Was unable to install a new driver over the top of an existing driver in some cases.	Corrected in the 2.1 release with updates to the package installer.
16381	Cleanup of log file messages referencing sdb5.	In some situations, lots of messages were added to the log files.	Corrected in the 2.1 release.
16247	`scatter_repl_io` time out experienced during replication.	During replication, the system showed a `scatter_repl_io` error.	Corrected the issue in the replication code.
16426	After upgrade from 1.*x* to 2.*x*, the GUI prompted for reboot but reboot did not occur on the first try.	When upgrading from 1.*x* to 2.*x* from the UI, the reboot does not appear to reboot the system.	Before clicking the reboot button in the UI, refresh the browser and to resolve the issue. You can also do the upgrade from the CLI if you wish to work around this issue.
16083	Dell DR4100 system comes up in an error state due to additional power supply sensors that are discovered with newer iDRAC firmware.	This was caused by a new version of the iDRAC firmware which discovered additional sensors.	Corrected the issue in the Hardware Monitor code.
15795	There is no message instructing user to upgrade the Client OST plugin when DR4X00 FW is upgraded.	Added messaging to the UI so that during the upgrade the user is told to also upgrade the OST plugin if OST is being used.	Added messaging to inform the user to upgrade the plug also.
15695	GUI "Usage" page doesn't show any stats graphs in a special case.	If the client machine and the DR are not in the same time zone, then the usage graphs may not show the stats for some period.	We now use the time zone of the server rather than the client running the browser.

ID	Issue	Description	Workaround/Solution
15275	Windows OST plug-in install fails on a DC.	Installing the OST plug-in on a DC fails.	The code now supports this option.
15067	Handle the '.' as part of the NETBIOS name.	Domain join to the AD domain controller is ok but access to DR4000 share fails. Handle/allow '.' in NETBIOS name. Access from windows client using **test.com \administrator**. `smb.conf: workgroup = TEST.COM realm = ad.test.com administrator@sws ys-84 > authenticate -- show Domain: ad.test.com Login group: test.com \domain users administrator@sws ys-84 >`	Corrected the code path to allow '.' for domain login groups.
14959	System did not come to operational state after upgrade due hardware monitor failing to start.	Intermittently after an upgrade the unit does not come into an operational state and remained in maintenance mode.	Added code to check the status of the SNMPD before starting the hardware monitor which resolves this issue.
14957	Support bundles can be large. We need to support options to gather more specific info in these special situations.	Add following new options for diagnostics collection. • `--logs` — Collect only logs and system configuration. • `—cores` —Collect only cores • `--auto_diags <#>` — Collect only specified number of previous auto diagnostics. • `--tcp_dump`— Collect tcp dump report. The `auto_diags` option is hidden since this is a very special use case.	`diagnostics --help` collect Usage: `diagnostics -- collect [--name <name>] [--reason <reason>] [--force] [--dset] [--logs] [--cores] [--tcp_dump] [-- all]`

ID	Issue	Description	Workaround/Solution
14949	CLI expansion license was showing up as "In Use: No" even though the expansion license was installed.	Corrected the CLI command `system -- show --license - verbose` to display the license in the correct state.	```[root@swsys-221 ~]# system --show --license --verbose Feature ID: 3 Description: 27TB Status: Enabled Entitlement ID: Start Date: End Date: Is Eval: No In Use: Yes```
14897	OST limiter throughput below the set value.	The throttling speed limits that can be set using the DR Series system CLI commands (`replication -- limit --speed`) would not match the set replication bandwidth limits.	Corrected some minor issues with the OST limits to correct this issue.
14889	Add the option to the CLI to show if the SNMP Trap's email is on or off.	Added additional option to `alerts --show - email` command. ```Email SNMP Trap's : Yes or No```	Added additional option to `alerts --show - email` command to show status of Trap's e-mail.
14845	`system --upgrade` command fails with an error message:`Upgrade image not found`.	After replacing a hardware CRU or FRU, the DR may come up in support mode with a request to upgrade the hardware.	The GUI and CLI now place the uploaded SW package into the same directory so upon HW replacement this same image can be utilized to upgrade the new component when necessary with no special user action required.
14724	Replication speed limits not throttling as expected.	The throttling speed limits that can be set using the DR Series system CLI commands (`replication -- limit --speed`) would not match the set replication bandwidth limits.	Corrected some minor issues with the replication limits to address this issue.
13537	Dell DR4100 system enclosure hot add fails in Release 2.0.	Attempting to perform a "hot add" of an external expansion shelf	The workaround is to observe the following best practice for connecting an

ID	Issue	Description	Workaround/Solution
		enclosure in a DR4000 or DR4100 system fails because this is not a supported method of operation in the 2.0 product release. To prevent this error/failure condition from occurring, observe the following best practice: Ensure that before an external expansion shelf enclosure is cabled to and powered on to a Release 2.0 DR4000 or DR4100 system only after the DR Series system has been powered down.	external expansion shelf enclosure to a Release 2.0 DR4000 or DR4100 system: • Power off the DR4000 or DR4100 system (this is a requirement for 2.0 with Dell OpenManage 7.1). • Connect the cabling between the external expansion shelf enclosure and the DR4000 or DR4100 system. • Power on the external expansion shelf enclosure. • Power on the DR4000 or DR4100 system.
13580	User intervention is required when booting up a system that was rebooted due to a shelf going offline.	This condition can occur when an external expansion shelf enclosure goes offline, which requires that the DR Series system be rebooted. During the DR Series system boot up, it halts in the PowerEdge RAID Controller (PERC) H800 configuration process, and prompts you to press <F> to import the **Foreign Disks**.	To resolve this issue, press <F> to import the **Foreign Disks**, and allow the boot up process for the DR Series system to complete and boot normally. Once the process completes normally, the DR Series system will come up, and enter its **Operational** mode.
13790	DR Series system performance drops when background initialization runs on an external expansion shelf.	Whenever an external expansion shelf enclosure is added to the DR Series system, this causes a one-time only impact to the DR Series system performance. The impact is a result of the background initialization (BGI) process running for an external expansion shelf (the system RAID disks require such initialization). BGI can take approximately 2 hours for a 3 Terabyte (TB) external	There is no workaround for BGI. This is a one-time only process that occurs when an external expansion shelf enclosure is added. During BGI that is associated with the addition of an external expansion shelf enclosure, you should expect that performance for the DR Series system will be slower than usual.

ID	Issue	Description	Workaround/Solution
		expansion shelf enclosure to complete.	
14126	Do not connect an external expansion shelf enclosure to a DR Series system prior to upgrading to the 2.0 release.	System issues occur if any DR4000 systems running the pre-2.0 release system software connect and power on any external expansion shelf enclosure, and then upgrade to the DR Series system 2.0 release software. To prevent this condition, observe the following best practice: • An expansion shelf enclosure should only be powered on and connected to a DR4000 system after the system has been upgraded to the 2.0 release software. • Follow the recommended sequence of operations listed in the Workaround/ Solution section.	To resolve this issue, observe the following best practice for upgrading earlier DR4000 systems to the 2.0 release software (this must be done prior to connecting and powering on an external expansion shelf enclosure): 1. Upgrade the DR4000 system with the release 2.0 system software. 2. Power off the DR4000 system (required for 2.0 with Dell OpenManage 7.1). 3. Connect the external expansion shelf (or shelves) with cabling to the DR4000 system. 4. Power on the external expansion shelf (or shelves). 5. Power on the DR4000 system.
14427	The Google Chrome browser reports that the upgrade page is unresponsive during a file upload.	The Google Chrome browser displays a **Page(s) Unresponsive** dialog, which indicates it is in a "waiting" mode when uploading the DR4000 system software payload needed for the upgrade. The **Page(s) Unresponsive** dialog allows only two options: 1. Click the DR4000 system software upgrade in the dialog list box, and click **Kill pages**. 2. Click **Wait**.	There is no workaround at this time. Dell recommends that you click **Wait** and allow sufficient time for the uploading of the DR4000 system software upgrade to complete.
14895	Restore Manager needs to add a message to remove the USB key after the operating system installation completes.	The USB key used during the Dell DR Restore Manager operating system installation	To prevent the overwriting of the USB key, when the operating system installation is successful, it is

ID	Issue	Description	Workaround/Solution
		process can be overwritten if it is not removed after successfully installing the operating system.	recommended that you observe the following best practices: 1. Remove the USB key. 2. Reboot the system.
14920	Kernel panic due to soft lockup after killing power to the enclosure.	A softlock error condition can occur if an active data ingest is in progress and any active external expansion shelf enclosure loses both of its power supplies. Because an error associated with inflight write data is detected, the DR Series system performs a "kernel panic" and reboots. During the reboot, if the external expansion shelf enclosure was already powered on and there was active inflight data in the PERC controller cache, the DR Series system remains in the BIOS window.	The workaround to resolve this issue is to perform the following: 1. Follow the instructions displayed on the BIOS console or contact Dell Support for assistance. 2. Import the Foreign Configuration. 3. Accept the Configuration. 4. Do not run the configuration utility (as this will clear the configuration). 5. Ensure that you follow these instructions explicitly or you will lose your data.

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Getting help

Other information you may need

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Document	Description
Dell DR Series System Getting Started Guide	Provides an overview of how to set up the physical DR Series system hardware and includes technical specifications.
Dell DR Series System Owner's Manual	Provides information about DR Series system hardware features, troubleshooting the DR Series system hardware, and installing or replacing DR Series system hardware components.
Dell DR2000v Deployment Guide	Provides information about deploying the virtual DR Series system, DR2000v, on supported virtual platforms.
Dell DR Series System Administrator Guide	Provides information about managing backup and replication operations using the DR Series system software and GUI.
Dell DR Series System Interoperability Guide	Provides detailed information about system drive capacities and supported hardware and software for the DR Series systems.
Dell DR Series System Command Line Reference Guide	Provides information about managing DR Series system data backup and replication operations using the DR Series system command line interface (CLI).

✎ NOTE: Always check for the latest documentation and document updates at **dell.com/support/home** and select your specific DR Series system. Read any document updates first because they often supersede information in other documents.

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