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Data ONTAP 5.3.4R3

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Bugs fixed

The following tables list titles of bugs that are fixed. For more information about each bug, see [Bugs Online](#).

Bugs fixed in Data ONTAP 5.3.4R3

Bug ID	Title
20705	First byte zeroed in metadata blocks

Bugs fixed in Data ONTAP 5.3.4R2

Bug ID	Title
14825	mbuf shortages can lead to "WAFL hung." panic
18765	Existing security ACL is lost when saving file from Excel/PowerPoint
19199	Crash during attempt to turn NFS off

Bugs fixed in Data ONTAP 5.3.4

Bug ID	Title
1114	Client locked root buffers can be recycled
3035	ifconfig can cause CIFS problems when CIFS is running
3814	Quota reports for root owned files
5393	Local /etc/passwd is ignored if NIS is enabled.
6657	Statit may panic filer if run too quickly.
6792	Lines longer than 1024 characters in http.group file will crash filer
6893	Sometimes a disk scrub may not run as scheduled.
7274	Bad syntax in httpd.passwd file can crash filer
7515	TCP connection limit is too low
7874	Windows 2000 MMC share snap-in, NTResKit4.0 permcoppy not supported
8057	Need default qtree quotas
8317	Crash caused by removing /etc/httpd.translations
9417	"quota off" does not abort "quota on"
10103	Crash during large resize.
11549	Some CIFS clients fail when creating shares
11657	First incremental dump after upgrade results in a level 0 dump.
12244	Quota initialization can panic
12367	"WAFL hung" crash after unbalanced "disk swap"
12429	Bad transact pointer causes filer panic in HandleUlogoffX.
12498	Filer becomes unresponsive if there are problems with NIS
12563	Samba's smbclient/smbmount see truncated filenames
12669	CIFS clients cannot always connect to filer via IP address
12761	Fault handling NFS request over TCP, just as socket being closed
13045	Too many quota exceeded messages
13171	index.html not configurable
13176	Filer crashes when setting ACL on path with symlink via Server Service
13189	Security scan crashes filers
13206	Configuring an interface 'up' during CIFS startup can crash the filer
13226	Dump panics on an unexpected signal

13252	F520 and F540 system failures running 5.3 or 5.3.1
13312	crash may occur when forcegroup is used on CIFS share
13318	NT backup privilege can prevent opens that should be allowed
13324	Quotas for CIFS ownership changes sometimes not correct
13442	Budtool is unable to backup a filer to a Budtool media server.
13445	"WAFL hung." crash caused by full volume during dump Pass I or II
13494	Console character set not set for taken over machine
13518	Creating local group without comment gives access denied
13533	Assertion Failure in nbns_receive.c:1111
13647	usrtogrp and addusers can cause duplicate entries
13649	Daylight savings time change adversely affects scheduling
13679	Built-in FTP server cannot access files with NT security
13702	Files created with ACLs using generic access masks are not accessible
13723	http virtual host
13840	weekly CIFS machine password change might hang a loaded filer
13843	Filer panics when trying to abort dump at tape switching
13909	assertion gSMBRuntime.rpcfd_active == 0 during CIFS terminate
13914	ndmpd dump/restore fails to abort properly in 5.3
13917	Panic on filer possible after "cifs setup" if /vol/vol0/home doesn't exist
13959	The nvfail option does not work on taken over volumes in clusters
13985	Delete of read-only file not denied if cifs.perm_check_use_gid is "on"
14049	Filer reports "CIFS - other NT error with DC c000006a" during installation
14235	Missing </directory> tag in httpd.access causes reboot loop.
14270	Restore allocates a large amount of memory and can prevent other processes from running
14271	"WAFL hung." panic after a disk failure
14295	Can't configure /etc/syslog.conf with FilerView
14366	NT user name of more than 64 characters can cause a filer panic
14401	Softway's Interix cannot create files on the filer
14462	Panic when write raw request cancelled
14485	Win9x Nt Server Tools do not work on 5.3 system
14543	Quota on race condition
14550	Files created with PST have wrong time when copied during PDT
14587	Under heavy load, modifying local groups may cause CIFS to hang
14612	Filer HTTP stops accepting new connections.
14687	NT ACL editor and User Manager fail to display local groups if many are defined
14734	filer crashes, "MMfault MMCSR=1, type=1, VA=0x40, PC=0xffffc000041ed9c"
14762	PANIC soclose: NOFDREF when badly formed SMB message received
14897	NetBackup verification of dump images fail due to wrong byte count
14991	Machine check may occur during revert_to operation
15004	Unicode rename to existing 8.3 name causes waf/dir.c 1334 assertion
15057	Crash when specifying five timed hosts
15123	SnapMirror stops transferring when snap create exceeds 3:47
15189	Restore crash while reading dump of root directory
15348	Admin cannot change share ACL on share ending in '\$'
15498	waf.default_nt_user option not updated correctly
15511	rpc_dotasks: unknown tasktype ...
15515	CIFS bytelock problems
15558	Using Server Manager for session disconnects can halt the filer
15562	Connecting to "CIFS.HOMEDIR"
15574	Problems using Windows 2000 as a PDC for filer's domain
15623	DC locate fails when multi-homed using broadcast
15661	Tape locked after RMT failure
15736	GPF when using open dialog with Win95 client and Lotus Word Pro
15753	rpc_s_server_too_busy followed by panic
15755	RMT client console hangs when rmt server dies
15927	ONTAP 5.3 cannot communicate with locally attached ADIC libraries

15997	Remote multi-tape ndmpd dumps in ONTAP 5.3 can return wrong byte count information
15998	ndmpd updates the dumpdates table incorrectly when dumping pre-existing snapshots
16082	NBT H-Mode FindName not working properly
16084	Filer can crash while attempting to update /etc/dumpdates
16134	xlate.c:269: Assertion failure
16313	CFO takeover/giveback/takeover in 9 minutes with network timeout may panic
16416	System instability when doing "Take Ownership" of files with large ACLs
16421	Panic when adding disks with SnapMirror turned on
16457	WAFL allows creation of hard links between volumes
16509	Missing Language file causes reboot loop
16511	Windows 2000 clients have problems in the root directory of a share
16569	Autosupport email is rejected by some SMTP implementations
16611	Filer PANIC in dump after tape change, close to the end of Pass IV.
16632	Restore panics when recovering files with ACLs from dump.
16644	system hung (wafl_lopri)panic when using change notify on symlinks
16686	CIFS client unable to access files with non-8.3 names
16739	NT Resource Kit reg.exe utility can crash the filer
16767	False temperature faults from EDM
16771	VERIFY in buf_alloc caused the filer to crash.
16784	Panic with message "PANIC: vbn <vbn> past blkmap EOF at <size> for volume <volname>" on a SnapMirror destination volume.
16808	'cifs shares' command locks up console when many shares defined
16845	All extended mbufs (for network i/o) are lost.
16886	Turning on quotas on a SnapMirrored (snapmirror destination) panics system.
16915	Possible panic with workgroup authentication after QUERY SECURITY DESC
16949	NDMP dump leaks file descriptors
17028	On a busy filer, running "cifs sessions" can cause a crash
17037	CIFS commands not permitted in /etc/rc
17050	ASSERTION Failure in smbfiletree.c:5793
17071	SnapMirror transfers may not be done if too many scheduled at the same time
17164	Low memory can cause system to panic with MM fault
17176	Panic: system hung in CIFSAuthen
17189	VolCopy can cause panic if wrong source volume name is given.
17205	Filer can become nonresponsive when ForceGroupEnable is set on shares
17206	registry contents lost - "didn't find expected first line of registry file"
17416	Volcopy can fail if snapshots take longer than 9 minutes
17437	WAFL needs to take news disks into account when doing memory checks
17489	Cannot create share on filer using Windows 2000 MMC
17551	Dump too optimistic on WAFL read message usage
17557	Dump performs poorly in a busy system.
17558	Dump does not prefetch checksum blocks.
17565	Reboot during quota initialization can corrupt data
17610	Read error just before disk failure can lead to deadlock
17616	options can get reset to defaults when floppy boot option 2 is used
17639	Rename from Windows of a file to its own name can cause an assertion failure
17660	SnapMirror off may not abort transfers
17726	Snapmirror Incrementals Fail
17743	Changes to snapmirror.conf file can go unnoticed
17767	Option to ignore ctime on incremental dumps
17771	MM Fault while displaying long file name not in root volume language.
17792	Restore of dump tapes from Ontap 4.3 onto Ontap 5.3.x crashes filers
17812	Memory shortages caused by NIS cache
17874	CIFS extended mbuf leak can cause filer service to grind to a halt
17948	Starting a dump during a SnapMirror transfer deletes Snapmirror snapshot
17957	TCP sockets can reset even though packets are getting through
17997	Dump fails to handle file/directory with DOS names of zero length

18110	Local caching of NIS lookup entries should be limited.
18181	filer crashes, ../common/smb/ipcrv.c:2839: Assertion failure.
18230	"assertion \"wafI_priv.wafI_pre_alloc_bufs == wafI_priv.msg_cntI\" failed: file \"../common/wafI/buf.c
18550	nbttstat -a to filer fails with large number of aliases
18579	Managing large share level ACL from NT Server Manager can panic filer

Bugs fixed in Data ONTAP 5.3.2

Bug ID	Title
6893	Sometimes a disk scrub may not run as scheduled
10186	CIFS terminate aborted due to a hung CIFS I/O operation
10658	dump via NDMP can leave inomap buffer locked
11454	Changes to /etc/symlinks.translations file require cifs shutdown
13263	CIFS options not preserved after takeover
13450	Update of code page causes panic on readonly volumes
14194	Clustered Filer crashes during boot during partner giveback
14301	Failure to giveback cluster when using /etc/symlink.translations
14430	Cluster monitor: unable to transit due to timeout
14991	Machine check may occur during revert_to operation
15123	SnapMirror stops transferring when snap create exceeds 3:47
15311	Aborting a volcopy in progress causes a panic
15499	Panic when accessing a file that is being closed
15717	Enabling pcnfsd multiple times can cause system failure
15736	GPF when using open dialog with Win95 client and Lotus Word Pro
15751	SnapMirror Transfers couldn't be terminated at times
15833	Restarted restore accepts tapes in non-sequential order.
15849	Do not restore a 5.3 dump tape on older systems
15927	ONTAP 5.3 cannot communicate with locally attached ADIC libraries

Bugs fixed in Data ONTAP 5.3.1

Bug ID	Title
10469	Modifying /etc/sm/monitor or /etc/sm/notify can lead to a crash
11602	misconfigured DOS CIFS clients can cause filer to hang
12424	Dump is slow in writing a small qtree to tape.
12760	System hang caused by a loop in CIFS internal structure lists
12833	Creation of 24 volumes on a filer will cause a panic during subsequent boot.
12841	Increase ROOLR instances from 6 to 20.
13252	F520 and F540 system failures running 5.3 or 5.3.1
13258	Usermap file not reloaded after cifs terminate/cifs restart
13387	Network lock manager test result bug.
14066	cifs.perm_check_use_gid option not persistent
14164	Possible data inconsistency due to mishandling of write errors.

Limitations of Data ONTAP 5.3.4R2

The following are limitations of Data ONTAP 5.3.4R2. See the [Data ONTAP 5.3.4R3 Start Here](#) for detailed descriptions of these limitations and their solutions.

CAUTION: Upgrading from a version of Data ONTAP before 5.3 to a version of Data ONTAP 5.3.x results in a loss of CIFS access to any previous snapshots that you have already made.

- This limitation applies to filers that are licensed for the SnapMirror™ feature. When volumes are being mirrored and the destination filer has less memory than the source filer, the mirror process might fail when the destination volume is brought on-line.
- This limitation applies to filers that are in a cluster. If the filer tries to take over the partner while quotas are being initialized on any of the partner's volumes, the filer performing the takeover crashes as the takeover is completed.

Features in Data ONTAP 5.3.4R2

Data ONTAP 5.3.4R2 includes the following new features in addition to the features and bug fixes of Data ONTAP 5.3.4. See the [Data ONTAP 5.3.4R3 Start Here](#) for details about these features.

- Support for the new Fibre Channel StorageShelf FC9 disk shelf with 18- or 36-GB fibre channel disk drives
- Support for 36-GB fibre channel disks

Data ONTAP 5.3.4 includes all the following features and bug fixes of Data ONTAP 5.3.2.

- Performance improvements
- Support for a new Gigabit Ethernet Controller II card (NetApp® F700 series)

- Support for a new 10Base-T/100Base-TX Ethernet card
- New NVRAM format
- Support for configuration checking using the `sysconfig -c` command (NetApp F600 series and NetApp F700 series)
- New quota features
- New commands for filers with fibre channel disks:
 - `fcdiag` (available only in maintenance mode)
 - `fcctest` (available only in maintenance mode)
 - `fcstat`
- New `options` commands:
 - `options nis.servers`
 - `options nis.group_update_schedule`
 - `options http.log.format`
- New `nis info` command
- New `ypgroup` command
- Improvements to the `setup` command
- Improvements to NIS server binding error handling
- Improvements to command-line editing

System requirements

Data ONTAP 5.3.4R3 has the following system requirements:

- Filers supported:
 - NetApp F200 series
 - NetApp F300 series
 - NetApp F500 series
 - NetApp F630
 - NetApp F700 series

Clusters are supported only on the following NetApp filers with fibre channel connections to disk shelves:

- F630
- F740
- F760

- Memory

If your filer...	It needs a minimum of...	
	Main memory...	NVRAM...
Is configured as a partner in a cluster	256 MB	32 MB
Has 1/2 TB or more of disk storage (for example, more than 56 9-GB drives or more than 28 18-GB drives)	512 MB	32 MB
Is not in a cluster and does not have 1/2 TB or more of disk storage	128 MB	2 MB

If you do not currently have the required memory, you can order additional memory from our Installed Base Group either by email at ibg@netapp.com or by phone at 1-888-263-8277.

- Filer firmware

Read the firmware installation instructions carefully before upgrading your filer to Data ONTAP 5.3.4R3. To run Data ONTAP 5.3.4R3, install the appropriate firmware on your filer:

- NetApp F200 series and F300 series filers require [firmware 1.9_i](#).
- NetApp F500 series filers require [firmware 2.1_a](#).
- NetApp F630 filers require [firmware 2.1_a1](#).
- NetApp F700 series filers require [firmware 2.2_a2](#).

- Fibre channel disk firmware

The minimum firmware revision for fibre channel disks is as follows.

Disk model	Firmware revision
ST19171FC	FB59
ST118202FC	FDF6
ST318203FC	F304
DRHL36L	2747

For instructions about upgrading your disk firmware, see the `na_disk_fw_update` man page.

- SCSI disk firmware

The minimum firmware revision for SCSI disks is as follows.

Disk model	Firmware revision
ST15150N	0023
ST15150W	0023

ST19171W	0024
ST39173WC	6244

For instructions about upgrading your disk firmware, see the *na_disk_fw_update* man page.

On-line documentation

Software documentation

Documentation is available for Data ONTAP 5.3.4R3 in HTML and PDF formats. To view the documentation, click [document set](#).

The entire document set is available in HTML and PDF formats in [ZIP](#) (14.7 MB) or [tar](#) (14.3 MB) compressed formats.

NOTE: If you are using the Internet Explorer® 4.0 or 5.0 browser and are having problems opening any of the Acrobat files, you might need to upgrade your browser by downloading the latest Service Pack. You can also right-click your mouse and select "Save *Target as . . .*" to download the Acrobat file or use the Netscape Navigator® browser to view or print the document.

Hardware documentation

Hardware installation instructions for the filers are available in the [Filer Hardware Information Library](#).

Software download instructions

After you finish upgrading to Data ONTAP 5.3.4R3, you can access the FilerView® interface from *http://filer_name/na_admin*.

After you confirm that you have the required memory, proceed with the download by clicking [CONTINUE](#).

Part Number: 215-02346 Rev. A0

