Actifio 10.0.5 Hotfix Rollup Release Notes

This document includes release notes for Actifio AGM, VDP, Resiliency Director, Sky, and hardware products.

December 2023 HR Release

December 2023 Files

Actifio VDP: rollup-CDS10.0.5.3152-Dec-12-2023.gpg
Actifio Global Manager: patch-AGM-actifio.10.0.5.6856.gpg
Actifio Resiliency Director: *no patch in this release*

December 2023 Resolved Issues

Fixed	309430186
Issue	Getting core dumps while trying to expire last successful log image, resulting in accumulating log images each time new staging disks are provisioned.
Fix	This has been fixed.

Fixed	309580103, 253271095
Issue	On heavier loaded appliances, scheduler queries are taking too long and job scheduling is not keeping up.
Fix	This has been fixed. Added an index on backupdata and jobhistory tables to improve performance / reduce load for scheduler queries.

Fixed	310338792
Issue	AGM can get an out of memory error when cleaning up entries from a very large auditdata table.
Fix	The limit for cleaning up records from the auditdata table has been increased to 1.9 million records.

Fixed	301064851
Issue	AGM can get an out of memory error when displaying a very large list of orphan images (>4000 backup images of deleted applications).
Fix	This has been fixed.

Fixed	296368990
Issue	The slainfodata table kept records for more than 90 days, impacting performance.
Fix	Records in the slainfodata table that are more than 90 days old are deleted.

Fixed	306644067
Issue	Oracle physical RMAN log backups can fail with error RMAN-06820: warning: failed to archive current log at primary database, cannot connect to remote database.
Fix	This has been fixed.

Fixed	308362530
Issue	If a source and remote appliance are managed by different AGM, 'Failback' option is not shown on the AGM managing source appliance. It is shown in the AGM managing remote appliances but the operation cannot be successful here as 'Failback' happens on source and the source appliance is not managed by the AGM managing remote appliance.
Fix	This has been fixed. The AGM managing the source application will now show the failback option when viewing the Access -> Table View page.

Fixed	308961240
Issue	In some cases with External Snapshot pools and Dell/EMC Unity arrays, deletion of a snapshot images fail with the error: "The snapshot cannot be deleted because it is locked. To delete the snapshot anyway, specify the override lock option. (Error Code:0x716d80f6)",
Fix	This has been fixed.

Fixed	310894364
Issue	CDX server became unresponsive due to issue with Broadcom OCS driver.
Fix	Broadcom released an upgraded driver version (ocs_fc_scst_12.8.644.0.zip), and the new OCS driver has been integrated in this MHR.

Fixed	310955620
Issue	Oracle 19c app aware mount fails because "enable_pluggable_database" was not set explicitly to true in the child database.
Fix	This has been fixed.

Fixed	195107080
Issue	Running discovery on a host will include staging disks and disks added by mount operations, which is often undesirable and can lead to double-protection.
Fix	Staging disks are automatically excluded from application discovery, and a new optional parameter called SkipDiscoverMountedBackupVolumes is now supported in the connector.conf file. When set, filesystems added by mounts are excluded from discovery.

Fixed	310078904
Issue	After a successful LDAP group mapping, AGM is not listing LDAP groups and displaying a loader for a very long time.
Fix	This has been fixed.

Fixed	271391878, 308529443
Issue	Some jobs get stuck or fail with the error "Socket recv failed Resource temporarily unavailable".
Fix	This has been fixed.

Fixed	310299125
Issue	In some cases, an error during the upgrade to 10.0.5 prevented the Report Manager from starting up correctly.
Fix	This has been fixed.

December 2023 Fixed Security Vulnerabilities

Security	306335111 304558550 308449690 308450460 308451958 308455103 308752334 309075254 312634611 305138207

AGM/Sky	AGM and Sky appliance vulnerabilities
	  CVE-2023-3609
	  CVE-2023-5072
	  CVE-2020-22218
	  CVE-2023-25193
	  CVE-2023-36415
	  CVE-2023-38403
	  CVE-2023-38408
	  CVE-2023-42794
	  CVE-2023-42795
	  CVE-2023-44487
	  CVE-2023-45648

AGM/Sky OWASP	OWASP Scan Vulnerabilities
	  CVE-2023-36052(8.6)
	  CVE-2023-36052(8.6)

Report Manager	Tomcat CVE-2023-45648(7.5)

November 2023 HR Release

November 2023 Files

Actifio VDP: rollup-CDS10.0.5.3131-Nov-03-2023.gpg
Actifio Global Manager: patch-AGM-actifio.10.0.5.6847.gpg
Actifio Resiliency Director: patch-RD-actifio.10.0.5.1834.gpg

November 2023 New Features

Feature	Actifio VDP 10.0.5 now supports PostgreSQL 15.x.

November 2023 Resolved Issues

Fixed	196471437	
	Issue	Some log files were saved in AGM forever, and could cause root (/) to become full.
	Fix	Number of log files on AGM is now limited to 30 files.

Fixed	220647084	
	Issue	Sky appliance sends alerts if the email server is configured even when call home hasn't been enabled.
	Fix	This has been fixed.

Fixed	303597750	
	Issue	Resiliency Director: 10.05 upgrade fails in some circumstances with low free disk space and low memory available.
	Fix	This has been fixed.

Fixed	**298358050**
Issue	SAP IQ (Full+incremental) restore may fail if the database backup generates more than 10 files
Fix	This has been fixed.

Fixed	**299219163**
Issue	udpengine crash with signal SIGABRT when running StreamSnap jobs with Microsoft SQL Server and Oracle RAC clusters in some specific configurations with primary/secondary nodes.
Fix	This has been fixed.

Fixed	**302276897**
Issue	Saving the OnVault configuration sometimes gives an error with "Failed to dump current SA details to temp file" when no changes have been made.
Fix	This has been fixed

Fixed	**303740504, 303741996**
Issue	Report Manager: Data synchronization can get into an infinite loop with no error message.
Fix	This has been fixed.

Fixed	**195777461**
Issue	Protection of filesystems and systemstate on Hyper-V hosts is unsupported, but these applications are still discovered.
Fix	Discover on Hyper-V hosts will no longer discover filesystem and systemstate applications, only Hyper-V VMs will be discovered.

Fixed	299426276
Issue	Oracle restore ASM switch sometimes fails when adjusting point-in-time recovery parameters for the current timezone.
Fix	This has been fixed.

Fixed	294519008
Issue	Events show frequent udppm reloads (scheduler)
Fix	This has been fixed.

November 2023 Known Issues

ISSUE	291559986
Issue	The CLI filtervalue `issuedate:` works incorrectly if you escape the & with a backslash.
Workaround	When using multiple filters, use &, not \&. Remove the \ character.

November 2023 Fixed Security Vulnerabilities

Security	305859336 307224891 303172520 305603024 307193718 303806255
AGM/Sky	Vulnerability json-20090211.jar: CVE-2023-5072(7.5) Tomcat Vulnerability: tomcat-util-9.0.80.jar: CVE-2023-45648 CVE-2023-42795 CVE-2023-42794

		CVE-2023-44487

AGM/Sky OWASP		OWASP Scan Vulnerabilities
		  mockwebserver-3.12.2.jar: CVE-2023-0833(5.5)
		  okhttp-3.12.2.jar: CVE-2023-0833(5.5)
		  azure-mgmt-msi-1.16.0.jar: CVE-2023-36415(8.8)
		  jackson-core-2.13.2.jar: CVE-2023-5072(7.5)
		  jackson-jaxrs-json-provider-2.12.5.jar: CVE-2023-5072(7.5)
		  jakarta.json-1.1.6.jar: CVE-2023-5072(7.5)
		  jetty-io-9.4.52.v20230823.jar: CVE-2023-44487(7.5)
		  jetty-server-9.4.52.v20230823.jar: CVE-2023-44487(7.5)
		  xmlsec-2.1.7.jar: CVE-2023-44483(7.4)

Report Manager		Vulnerability quartz-2.3.2.jar in RM CVE-2023-39017(9.8)

October 2023 HR Release

October 2023 Files

Actifio VDP: rollup-CDS10.0.5.3124-Oct-11-2023.gpg
Actifio Global Manager: patch-AGM-actifio.10.0.5.6846.gpg
Actifio Resiliency Director: patch-RD-actifio.10.0.5.1778.gpg

October 2023 Resolved Issues

Fixed	197319516
Issue	Swap memory usage alerts are not uncommon when a garbage collection sweep job is running, but do not indicate when this is the case.
Fix	The alert now indicates whether a gc/sweep job was running when the swap threshold of 20% is met. This is normal behavior.

Fixed	286347691
Issue	Under some circumstances, PSRV memory consumption was abnormally high. This can cause system slowness, but no notification of a problem was sent.
Fix	When PSRV memory exceeds normal consumption, an event/notification is triggered. This will allow the users to open a support case if any slowness is observed so an investigation may be performed.

Fixed	288400555
Issue	Hotfix rollup installation progress messages were inconsistent.
Fix	Hotfix rollup installation progress messages have been improved.

Fixed	229307374
Issue	Some Compute Engine Persistent Disk snapshots could take hours to complete.
Fix	This has been fixed.

Fixed	277855401
Issue	SQL database clone operation failed with VSS error for path containing double slash
Fix	This has been fixed.

Fixed	293558009
Issue	Backup jobs may fail with error "Failed to create disk reader for fingerprint calculation" if the thin clone count has been exhausted.
Fix	This has been fixed.

Fixed	297327874
Issue	Resiliency Director second test failover fails with "Duplicate key value violates unique constraint host_uniquename_idx" if ReadyVM flag is set.
Fix	This has been fixed.

Fixed	**300194219**
Issue	Oracle 18c/19c on Windows: Application aware mount fails with error "5538: Actifio Connector TNSADMIN directory provided is invalid. Failed to connect to namespace root\microsoft\sqlserver. WBEM_E_INVALID_NAMESPACE. Invalid namespace . Please check Windows application event logs for more details".
Fix	This has been fixed

Fixed	**300216593**
Issue	Report Manager: The reportconsumption report fails with: Error: "failed GET: /actifio/api/report/reportconsumption caused by Read timed out".
Fix	This has been fixed.

Fixed	**300460273**
Issue	A very large auditdata table (>50 million records) can take over 10 minutes to produce results from reportmountedimages.
Fix	The auditdatatable is now automatically indexed to improve performance.

Fixed	**301385789**
Issue	Appliance Setup > Edit OnVault Pool: If this fails with an 'undefined' error, it may mean that the wrong service account credential was passed.
Fix	The error message has been improved: "Error: Authentication error.. Once you take some action to fix the error, upload the private key again."

Fixed	**288548669**
Issue	In some cases, the snapshot pool exists but is invisible in the AGM profile and appliance setup page. This occurred when one or more snapshot pools were disconnected from backend storage.

Fixed	288548669
Fix	Now the AGM shows both online and offline pools. You cannot edit an offline pool record in the AGM.

Fixed	296824431
Issue	UDSAgent service (connector) should use the superuser supplementary groups.
Fix	Superuser supplementary groups are now supported.

Fixed	302886916
Issue	External Snapshot Pool integration with Dell/EMC Unity did not always clean up thin clones properly.
Fix	This has been fixed

October 2023 Known Issues

ISSUE	293159785, 293579892
Issue	OnVault jobs fail with errorcode "1030	error undefined" if you upload a JSON format private key from a project other than the project that holds the OnVault bucket.
Workaround	Edit the JSON file with a text editor. Change the project ID to the project where the bucket is stored. Then upload the JSON key.

October 2023 Fixed Security Vulnerabilities

Security	298048159 299852728 301196767 303172831
AGM/Sky	CESA-2023:4151 Centos Security advisory for bpftool CVE-2023-32360 cups-libs

AGM/Sky (OWASP)	jetty-io-9.4.51.v20230217.jar:
	  CVE-2023-36479(4.3),
	  CVE-2023-40167(5.3),
	  CVE-2023-41900(4.3)
	jetty-server-9.4.51.v20230217.jar:
	  CVE-2023-36479(4.3),
	  CVE-2023-40167(5.3),
	  CVE-2023-41900(4.3)
	logging-interceptor-3.12.12.jar: CVE-2023-0833(5.5)
	okhttp-urlconnection-3.12.12.jar: CVE-2023-0833(5.5)

September 2023 HR Release

September 2023 Files

Actifio VDP: rollup-CDS10.0.5.3107-Sep-14-2023.gpg
Actifio Global Manager: patch-AGM-actifio.10.0.5.6845.gpg
Actifio Resiliency Director: patch-RD-actifio.10.0.5.1778.gpg

September 2023 Announcements

ANNOUNCEMENT	Version 10.0.4 reached End-of-Support on Jun 30, 2023.

September 2023 New Features

Feature	Actifio VDP 10.0.5 now supports Oracle 21c and Microsoft SQL Server 2022.

Feature	CBT support for SLES 15 SP4 kernel 5.14.21-150400.22-default

September 2023 Changes

CHANGE	220262465	
	Change	The option to select a target datastore for each VMDK has been removed from the Restore and Clone page for VMware VMs.
	Reason	Restores and clone operations for VMware VMs can only support selection of the target datastore at the VM level.

September 2023 Resolved Issues

Fixed	202808878
Issue	Hot fix rollup update installation screen disappears while update is still in process.
Fix	The "Installing update hf-<name>" screen now stays visible until the update process is finished for all hot fixes.

Fixed	213233463
Issue	Report Manager reportconsumption report may fail with a timeout error.
Fix	The timeout setting has been increased to 5 minutes.

Fixed	273857345
Issue	Migrate on the secondary node of MS-SQL AAG 2022 fails with error message "Backup and restore is not allowed on replica node".
Fix	This has been fixed.

Fixed	294167223
Issue	Upgrading the connector may change permissions for /act/cbt/module
Fix	This has been fixed.

Fixed	297548567
Issue	We incorrectly charge MDL for deleted applications that have only OnVault images
Fix	This has been fixed.

September 2023 Known Issues

ISSUE	291559986
Issue	The CLI filtervalue `issuedate:` works incorrectly if you escape the & with a backslash.
Workaround	When using multiple filters, use &, not \&. Remove the \ character.

September 2023 Fixed Security Vulnerabilities

Security	264226254
AGM/Sky	CESA-2023:0399 Centos Security advisory for bpftool CESA-2023:1091 Centos Security advisory for bpftool CVE-2008-0732 CVE-2023-41080(6.1)
AGM/Sky (OWASP)	grpc-core-1.56.0.jar: CVE-2023-33953(7.5) grpc-protobuf-1.56.0.jar: CVE-2023-33953(7.5) grpc-alts-1.56.0.jar: CVE-2023-33953(7.5) grpc-context-1.56.0.jar: CVE-2023-33953(7.5)
RD	CVE-2023-28709 CVE-2022-3517

July 2023 HR Release

July 2023 Files

Actifio VDP: rollup-CDS10.0.5.3065-Jul-13-2023.gpg
Actifio Global Manager: patch-AGM-actifio.10.0.5.6836.gpg
Actifio Resiliency Director: patch-RD-actifio.10.0.5.1699.gpg

July 2023 Announcements

ANNOUNCEMENT	Actifio GO reached end of support life on June 30, 2023. Contact support to migrate to Google Cloud Backup and DR service as soon as possible.

July 2023 New Features

Feature	266046466
	An SNMP alert is now generated if the PostgreSQL database in the Actifio appliance goes down.

Feature	232997474
	280033401
	An SNMP alert is now generated if filesystems reach the threshold value in AGM.

July 2023 Resolved Issues

Fixed	267461633
Issue	The migration script ACT_SYBASE_lvm_migrate_newTarget.sh fails if the LANG environment variable is set to POSIX.
Fix	The migration script ACT_SYBASE_lvm_migrate_newTarget.sh will execute successfully even if the LANG environment variable is set to POSIX.

Fixed	272510158
Issue	[RM] In some cases, creation of a real-time report schedule resulted in the error *Null parameter passed in parameterArray*
Fix	This has been fixed.

Fixed	192417677
Issue	PD Snapshot mount panel in 10.0.4 includes a dropdown that allows you to select an invalid project.

Fixed	**192417677**
Fix	The confusing dropdown has been removed.

Fixed	**259879550**
Issue	In very rare cases, RM data sync with the Actifio appliance could hang while waiting for response.
Fix	The RM-appliance data sync process has been improved to prevent this.

Fixed	**265910772**
Issue	Unable to bulk export RM reports and report definitions, with error *Export failed. The server has encountered an unexpected error*.
Fix	The bulk export option was unintentionally visible, but was never implemented or supported. To export a report or its definition, use right-click on the reports in the repository and choose Export.

Fixed	**269750865**
Issue	Import of a few apps from OnVault pool from a Sky appliance into another Sky actually imports all the apps in the pool.
Fix	This has been fixed.

Fixed	**263241491**
Issue	ESP (Disk Mapping Test) Failing When Storage Pool name has space.
Fix	Spaces in external storage array pool names are not supported,

Fixed	**287170203**
Issue	ESP iSCSI mapping for fc- disks during backup could impact performance

Fixed	**287170203**
Fix	Cleanup of ESP iSCSI mapping for fc- disks has been improved.

Fixed	**228560947**
Issue	PostgreSQL recovery duration is time-limited
Fix	PostgreSQL recovery duration is no longer time-limited.

Fixed	**283179358**
Issue	PostgreSQL app-aware mount reports success but db can't be accessed
Fix	This has been fixed.

Fixed	**283379545, 283046100**
Issue	Backup is inconsistent and migration script fails to start PostgreSQL if pg_wal is a soft-link
Fix	This has been fixed.

Fixed	**275672662**
Issue	CBT activation fails on SLES15SP4 OS
Fix	CBT support for SLES 15.4 now is subject to this kernel denylist: ● 5.3.18-150200.24.120.1 ● 5.3.18-59.30.1 ● 5.3.18-150300.59.81.1 ● 5.14.21-150400.24.49.3

Fixed	**286218149**
Issue	Cannot add new appliances to Report Manager on heavily loaded systems

Fixed	286218149
Fix	This has been fixed.

Fixed	272449929
Issue	AGM's web server should not support weak cipher suites.
Fix	AGM server no longer supports these CBC weak cipher suites: • TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 (secp256r1) • TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA (secp256r1) • TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA384 (secp256r1) • TLS_ECDHE_RSA_WITH_AES_256_CBC_SHA (secp256r1) • TLS_DHE_RSA_WITH_AES_128_CBC_SHA256 (dh 2048) • TLS_DHE_RSA_WITH_AES_128_CBC_SHA (dh 2048) • TLS_DHE_RSA_WITH_AES_256_CBC_SHA256 (dh 2048) • TLS_DHE_RSA_WITH_AES_256_CBC_SHA (dh 2048)

Fixed	270623349
Issue	SQL server database backups are not incremental when SQL Server paths contain double slashes
Fix	This has been fixed.

Fixed	275026383
Issue	After the updating AGM to 10.0.5, some image expiration buttons are not available
Fix	Starting in 10.0.5, the user must have the "Expiration Manage" right before the AGM will enable the "Manage Expirations" button.

Fixed	284134625
Issue	SP5: Recoveries using the VMware to GCE conversion process fails for shared VPC configuration with error `invalid project details for project/region`

Fixed	284134625
Fix	Recovery into shared VPCs is now successful

Fixed	284431153
Issue	Disk Mapping is failing in case of multiple hosts in the same request.
Fix	This has been fixed.

Fixed	278707379
Issue	Cannot add 10.0.4 Sky to 10.0.5 AGM
Fix	10.0.4 is out of support. Update any Actifio appliances to 10.0.5. Google Support can help.

Fixed	286989753
Issue	Customer unable to run Backup Job Details report with show summary option selected
Fix	This has been fixed.

Fixed	283045839
Issue	PostgreSQL backup not protecting all the LVMs of the database
Fix	All LVMs are now protected properly.

Fixed	283379235
Issue	PostgreSQL Mount and Migrate should not fail script if the disks are auto-mounted after vgmerge
Fix	This has been fixed.

Fixed	274656648
Issue	AGM upgrades sometimes fail with a message about not running the right kernel
Fix	This has been fixed.

Fixed	278050582
Issue	Three RM reports were experiencing errors: - Disk pool utilization history - Environment summary report - Overall Appliance Summary
Fix	These have been fixed.

Fixed	229307374
Issue	GCE VM backup took around 2 hours time due to a backlog at copying metadata to OnVault
Fix	Bulk copying of metadata has been greatly increased.

July 2023 Fixed Issues for Pre-Acquisition Actifio Deployments

These issues are only relevant for the handful of customers that have not yet migrated to Google consumption-based billing.

Fixed	280422581
Issue	On Actifio CDS appliances, you may see alert `NTP is not enabled`
Fix	This alert is not relevant to CDS appliances. It has been removed.

Fixed	286043996
Issue	SP5 MHR failed to apply one module's update on CDX

Fixed	286043996
Fix	Subsequent MHRs will correctly install this module's update.

Fixed	274651835
Issue	The catalog database fails to start up after upgrading to AGM 10.0.5
Fix	This has been fixed.

Fixed	279538970
Issue	Catalog services should be stopped if not configured
Fix	Added two new CLI commands: Read the flag value (by default, catalog feature is enabled) `udsinfo getparameter -param enable.catalog.configuration` Set the flag value `udstask setparameter -param enable.catalog.configuration -value true` (or false)

Fixed	258799517
Issue	Discovery of over 1500 Hyper-V VMs takes a long time
Fix	The Hyper-V discovery process has been significantly accelerated.

Fixed	271560899
Issue	[CDX appliance only] A CDX appliance may fail over suddenly, alerting that Fiber link is down. This is due to a kernel panic by OCS driver.
Fix	A new OCS driver has fixed the problem.

Fixed	269252727
Issue	[CDX appliance update only]: Some update failures have no useful error messages.
Fix	Most CDX appliance update failures now have useful error messages.

Fixed	276836245
Issue	RD SP5: Reset is failing for a few applications on Traditional and Solo
Fix	This has been fixed.

July 2023 Fixed Security Vulnerabilities

Security	264226254
Issue	RM-CVE Security Vulnerability on postgresql-42.4.1 and postgresql-42.5.0
Fix	CVE-2022-41946

Security	275720361
Issue	Vulnerability on commons-fileupload-1.4.jar
Fix	CVE-2023-24998

Security	275499038
Issue	RM CVE-2021-37533 on commons-net-3.3
Fix	CVE-2021-37533

Security	274548388
Issue	Tomcat Vulnerability
Fix	CVE-2023-24998

Security	277298885
Issue	RD Sp5 : 3rd party security vulnerability
Fix	CVE-2023-1370 CVE-2023-1436

Security	277315971
Issue	Latest Vulnerability in AGM (SP5)
Fix	CVE-2023-1370 CVE-2021-37533 CVE-2022-41946

Security	277318480
Issue	Fix Catalog Vulnerability in SP5
Fix	CVE-2023-20861 CVE-2022-1471

Security	280734643
Issue	Sky Sp5 : 3rd party security vulnerability (json-20211205.jar)
Fix	CVE-2022-45688

Security	281047950
Issue	Fix latest vulnerabilities in RM in SP5
Fix	CVE-2023-30535

Security	273281088
Issue	[SKY 10.0.5] Sudo
Fix	CESA-2023:0291

Security	273282456
Issue	[SKY 10.0.5] advisory - Bind and Bind *
Fix	CESA-2023:0402

Security	273283586
Issue	[SKY 10.0.5]: java-11-openjdk-headless
Fix	CESA-2023:0195

April 2023 HR Release

April 2023 Resolved Issues

Fixed	221096191	
	Issue	Sky Appliance /tmp gets full while downloading logs, does not clean up
	Fix	Added the cleanup logic in case the 'mv' command fails while backing up old connector logs. Also, returning a meaningful exception message.

Fixed	267609961	
	Issue	LiveClone fails if configured on non default pool and new disks added to backup image. When refreshing a LiveClone image on any pool other than the default pool, the snapshotpool entry in JobProfile points to the default pool. If a resize is triggered, the poolname present in 'JobProfile' is the default pool and the job fails.
	Fix	The Jobprofile snapshot pool now uses the poolname from the refreshobject.

Fixed	204221320	
	Issue	Upgrades or hotfix installations could fail with the error "Found 1 undead ifcfg files".
	Fix	The upgrade will now detect and automatically correct the condition.

Fixed	272331713	
	Issue	Unable to backup SAP ASE database due to DB2 HOME getting the wrong value.
	Fix	This was addressed with the workaround in the discovery script by getting the correct DB2 home from the process id with INSTHOME.

Fixed	272326927

Issue	After a mount and migrate operation on an IBM Db2 database, the database is in an inactive state. Manually start the database after every mount and migrate operation.
Fix	Restart of the database has been automated.

Fixed	**263254190**
Issue	After an incremental Linux OS upgrade, in some cases symlink changes are not reflected in incremental backups and system state recovery jobs fai.
Fix	Smartcopy can now recognize and handle all cases of symlink changes.

Fixed	**274769849**
Issue	[Sky appliance only] If you ssh in as root to a Sky appliance and type a command longer than the width of the window, the line wraps early, and the cursor moves to the first column but does not scroll to the next line.
Fix	This has been fixed.

Fixed	**261553091**
Issue	Oracle remount operation fails due to undo tablespace issue.
Fix	This has been fixed.

Fixed	**252504955**
Issue	System state backup failing with error 5092, unable to delete the BTRFS snapshot.
Fix	Added a check for the existence of the directory before deleting it.

Fixed	**272333865**
Issue	Oracle child backup fails with error `Oracle: Failed to backup parameter file` due to pfile backup failure when spfile is not used to start a database.
Fix	This has been fixed.

April 2023 Fixed Issues for Pre-Acquisition Actifio Deployments

These issues are only relevant for the handful of customers that have not yet migrated to Google consumption-based billing.

Fixed	267975999
Issue	(CDX only) Logjobs for certain Oracle apps on CDX are running full with preformatted string set to false
Fix	Fixed time conversion issue.

April 2023 Fixed Security Vulnerabilities

Security	272425245
Issue	Vulnerabilities in Sky appliances
Fix	CVE-2022-1471

Security	273685565
Issue	Report Manager
Fix	CVE-2023-24998 CVE-2021-28490 WS-2017-3805 CVE-2021-23926 CVE-2022-41946

Security	273282030
Issue	Actifio Global Manager (AGM)
Fix	CVE-2022-1471 CVE-2022-42003

CVE-2022-4065 CVE-2022-45143	

Security	271076284
Issue	Resiliency Director (RD)
Fix	CVE-2022-45685 CVE-2023-24998

Security	271076284
OS Security Vulnerabilities for RD	CentOS: Security Advisory for ppp (CESA-2020:0630) 9.8 (High) CentOS: Security Advisory for bpftool (CESA-2020:0375) 9.8 (High) CentOS: Security Advisory for bpftool (CESA-2020:0374) 9.8 (High) CentOS Update for bpftool CESA-2019:3055 centos7 8.8 (High) CentOS: Security Advisory for iwl1000-firmware (CESA-2021:0339) 8.8 (High) CentOS: Security Advisory for bpftool (CESA-2020:0839) 8.8 (High) CentOS Update for bpftool CESA-2019:3979 centos7 8.8 (High) CentOS Update for bpftool CESA-2019:2600 centos7 8.3 (High) CentOS: Security Advisory for bpftool (CESA-2021:4777) 7.8 (High) CentOS Update for bpftool CESA-2019:2829 centos7 7.8 (High) CentOS Update for bpftool CESA-2019:3872 centos7 7.8 (High) CentOS: Security Advisory for bpftool (CESA-2021:0856) 7.8 (High) CentOS: Security Advisory for bpftool (CESA-2021:1071) 7.8 (High) CentOS: Security Advisory for bpftool (CESA-2021:2314) 7.8 (High) CentOS: Security Advisory for bpftool (CESA-2021:2725) 7.8 (High) CentOS: Security Advisory for bpftool (CESA-2021:3801) 7.8 (High) CentOS: Security Advisory for wpa_supplicant (CESA-2021:0808) 7.5 (High) CentOS: Security Advisory for bpftool (CESA-2020:5437) 7.2 (High) CentOS: Security Advisory for bpftool (CESA-2020:3220) 6.8 (Medium) CentOS: Security Advisory for bpftool (CESA-2021:3327) 6.7 (Medium) CentOS: Security Advisory for bpftool (CESA-2020:5023) 6.6 (Medium) CentOS: Security Advisory for bind (CESA-2021:3325) 6.5 (Medium) CentOS: Security Advisory for krb5-devel (CESA-2021:4788) 6.5 (Medium) CentOS Update for bpftool CESA-2019:3834 centos7 6.5 (Medium) CentOS: Security Advisory for glibc (CESA-2021:0348) 5.9 (Medium) CentOS Update for tcpdump CESA-2019:3976 centos7 5.5 (Medium) CentOS: Security Advisory for dbus (CESA-2020:2894) 5.5 (Medium) CentOS: Security Advisory for bpftool (CESA-2020:2664) 5.3 (Medium) CentOS: Security Advisory for bpftool (CESA-2021:3438)