Veritas NetBackup™ Emergency Engineering Binary Guide

Release 9.0 and 9.x

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Veritas NetBackup™ Emergency Engineering Binary Guide

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Veritas Services and Operations Readiness Tools (SORT)

Veritas Services and Operations Readiness Tools (SORT) is a website that provides information and tools to automate and simplify certain time-consuming administrative tasks. Depending on the product, SORT helps you prepare for installations and upgrades, identify risks in your datacenters, and improve operational efficiency. To see what services and tools SORT provides for your product, see the data sheet:

https://sort.veritas.com/data/support/SORT_Data_Sheet.pdf

Contents

NetBackup release content listings

This chapter includes the following topics:

- About NetBackup release content listings
- About the NetBackup "known issues" documentation conventions

About NetBackup release content listings

Each release of NetBackup incorporates fixes to several known issues that affected previous versions of NetBackup. Some of these fixes are associated with the customer-specific issues that have been documented in the form of customer cases. Several of the customer-related fixes that are incorporated into each release are also made available as emergency engineering binaries (EEBs).

The *NetBackup Emergency Engineering Binary Guide* contains the following information:

- Tables that list the EEBs that were incorporated into NetBackup releases
- Release content listings of some of the known issues that were fixed in NetBackup releases

The *NetBackup Emergency Engineering Binary Guide* is published for each major release and minor (single-dot) release. The guide is then periodically updated to include the EEB and release content listings for subsequent double-dot and triple-dot releases.

Much of the information that is found in the *NetBackup Emergency Engineering Binary Guide* can also be found on the Veritas Services and Operations Readiness Tools (SORT) website using the NetBackup Hot Fix and EEB Release Auditor widget.

Note: If you do not see information about an EEB or a fixed issue that you expected to see in the *NetBackup Emergency Engineering Binary Guide* or in SORT, contact Veritas Support.

About the NetBackup "known issues" documentation conventions

The following items describe the conventions used in the NetBackup known issues listings:

- **Etrack Incident**

  Notes the Etrack number that targets a release

- *Associated Primary Etrack*

  An additional Etrack number that exists in the incident hierarchy

- *Associated Service Request Etrack*

  The Etrack that is associated with the customer support service request

- *Description*

  Describes a particular issue that has been fixed in a release, as well as additional notes and workarounds (if available).

  Workarounds can be used instead of applying the patch, however, Veritas recommends the best practice of operating at the latest available NetBackup release level.

- ***Description* or ***Etrack number*

  Describes a critical issue or an issue that can lead to a potential data loss that has been fixed in this release

  Please read these issue descriptions carefully. In some cases, a Tech Alert link is provided.

EEBs and other known issues resolved in NetBackup 9.1

This chapter includes the following topics:

■ Previous EEBs now resolved in NetBackup 9.1

■ Other know issues resolved in NetBackup 9.1

Previous EEBs now resolved in NetBackup 9.1

Table 2-1contains a listing of known issues with NetBackup that were identified, fixed, and made available to customers in the form of an emergency engineering binary (EEB). NetBackup 9.1 resolves the issues that were fixed with each of these EEBs.

More information on the Etracks that are listed in this topic (and any other service request Etrack) can be found using the Veritas Services and Operations Readiness Tools (SORT) website.

https://sort.veritas.com/netbackup

Table 2-1   Previous EEBs now resolved in NetBackup 9.1

Etrack Number	EEB Description
3953626	NetBackup cannot restore Exchange mail into a mailbox whose user account is in a child domain managed by a different domain controller from the parent domain.
3969148	NetBackup cannot restore Exchange mail into a mailbox whose user account is in a child domain managed by a different domain controller from the parent domain.

Table 2-1   Previous EEBs now resolved in NetBackup 9.1 *(continued)*

Etrack Number	EEB Description
3981133, version 26, 25, 24, 23, 22	The EEB bundle contains fixes for MSDP issues on NetBackup 8.2
3981837, version 23, 22, 21, 20	The EEB bundle contains fixes for Cloud Catalyst issues on NetBackup 8.2.
3987480, version 4	nbrestorevm fails with -vcdlfree switch. vCloud Director VIP smart query and restore times out/fails. Support for vCloud director 9.5.
3989338	SQL Server backup fails when Windows security prevents use of CryptAcquireContext API.
3990766	Adds support for restoring host named site collections in SharePoint 2016 .
3990911	Unable to run Capacity Licensing Report from OpsCenter - seeing "invalid command parameter" when running bpflist as part of gather process.
3993744	Tomcat certificate renewal did not update jks files on a Windows cluster.
3995270	Allow Access Customers to tune the NetBackup client to perform better depending on the file sizes being protected.
3996929	Access violation occurred in bpbkar32.exe during a VMware incremental backup.
3998593	Oracle backups are taking extra time to release RMAN channels
3998991	Advance Success Rate report shows a wrong client count when using Client metric.
3999825	AzureStack issues with snapshots being left behind and also multiple snapshots getting created.
4000786	Due to high isolation level, sometimes data fetching by NBPEM fails while waiting for its turn to perform isolated transaction.
4001902	Exchange GRT restore fails with exception in nbgre.
4003178	One Linux GVFS F/S shows status 71 but other GVFS is status 0.
4003306	NetBackup does not support use of an alternate read server when performing replication operations.
4004215	Tomcat certificate renewal did not update jks files on a Windows cluster.
4004937	OpsCenter view nom_Driveusage shows wrong media server (vmhost).
4005511	A core dump issue occurs with bpduplicate while doing nutanix_vault profile job.

Table 2-1 Previous EEBs now resolved in NetBackup 9.1 *(continued)*

Etrack Number	EEB Description
4006562	Active Directory Application Mode (ADAM) granular backup fails on a domain controller when NetBackup is configured to copy AD files from the backup image to a local folder. The problem occurs only when ADAM is installed on a domain controller.
4006734	VMware Instant Revovery to a different location fails in ValidateDatastorePath() with error 11.
4007067	Provides config parameter (BPFIS_VNET_ACCEPT_TIMEOUT_IN_SEC) to set the accept timeout for bpfis on client.
4007309	Some special characters are removed before logging VM name.
4007800	Authentication for the NetBackup Administration Console and the NetBackup Web UI fails with Boks authentication application.
4008387	Isilon NDMP backup fails with Error bpbrm (pid=327932) db_FLISTsend failed: network connection timed out (41)
4008630	After recovering the machine from Windows All Local drives backup, the SQL Instance does not start up. The services for the SQL Instance does not start.
4008675	After recovering the machine from Windows All Local drives backup, the SQL Instance does not start up. The services for the SQL Instance does not start.
4008717	Oracle backup performance experiences a slow down of from 10 minutes to 5 hours.
4008808	Browsing a GRT backup of Active Directory is very slow.
4009001	After recovering the machine from Windows All Local drives backup, the SQL Instance does not start up. The services for the SQL Instance does not start.
4009041	Getting code 31 while trying to run user-initiated bparchive from Windows client
4009094	NDMP tape drives over IPv6 go down. Added debug log messages to robots log to help diagnose problem. Corrected bug in ping protocol for IPv6 connections.
4009129	This EEB will fix issues related to scenario where Image Metadata is associated with Bootvolume.
4009386	Unable to complete defragmentation of OpsCenter 8.2 database on RHEL server.
4010295	Cannot duplicate NDMP images to Cloud Catalyst - Error 25 Cannot connect on socket.
4010745	SQL Intelligent Policy backup fails if the registered user is not already logged in via some other means.
4010886	Fixes vulnerable JARs.

Table 2-1   Previous EEBs now resolved in NetBackup 9.1 *(continued)*

Etrack Number	EEB Description
4010952	NDMP backups failing with status 99 and in the log unimplemented error code 114.
4011200, version 2, 1	Restore or duplication will fail due to memory allocation error when MSDP map file size is larger than 2G.
4011276, version 1	SLPs offer the ability to configure an alternate read server when the storage configuration allows multiple media server to access the storage server. There is no equivalent for replications. This EEB adds that change.
4011563	Bpdown.exe is failing with status 5, due to some performance snapshot validations failing even though all services seems to be down. It causes JRE upgrade to roll back and ends up stopping Netbackup upgrade to latest version.
4011658	Hadoop 3.1 restore fails with error code 2850.
4011665	This EEB provides code logic to detect the hang issue.
4011671	Copilot intermittently fails with error code 1542
4012447	Bpbkar process uses high memory on RedHat 7.6 NetBackup 8.1.2 while backing up GPFS filesystem.
4012536	Bpdown.exe is failing with status 5, due to some performance snapshot validations failing even though all services seems to be down. It causes JRE upgrade to roll back and ends up stopping Netbackup upgrade to latest version.
4012550	When NAS-Data-Protection policy is in use, NBDeployUtil fails to generate the usage reports for traditional licensing. This applies to the manual mode and scheduled mode of NBDeployUtil.
4012607	Tomcat version 9.0.33 is reported as vulnerable, updating Tomcat to 9.0.37.
4013208	All backups fail after upgrade to NetBackup 8.3 due to machine alias for shortname/fqdn of master missing. When machine alias is entered manually, it again disappears after Netbackup services restarts.
4013394, version 13, 12, 11, 10	The EEB bundle contains fixes for MSDP issues on NetBackup 8.3.0.1
4013531, version 1	VMware Application State Capture (ASC) job failures are not reported by bperror command.
4013555	Unable to edit VM query staring with NOT in basic mode.
4013559	Nbdeployutil may fail to generate usage reports for traditional licensing. When 'NAS-Data-Protection' policy is in use, Nbdeployutil would fail to generate the usage reports for traditional licensing.
4013774	After upgrade to 8.3, catalog backup is completes partially successfully.

Table 2-1   Previous EEBs now resolved in NetBackup 9.1 *(continued)*

Etrack Number	EEB Description
4013833, version 2, 1	Support backup/restore of VxFS WORM ACL's Allow tuning of the use of VxFS's VX_UNBUFFERED advisory bit.
4013916	Veritas Smart Meter capacity usage shows around 3 times after upgrading to NetBackup 8.3 (largest currently appears to be Oracle usage).
4013950	nbdeployutil incremental reporting not working.
4014063	Restores fail due to the master server being selected over a media server for tape drive resources.
4014381	Universal Share deduplication issue occurs with Azure Cloud
4014636	Restoration to original location fails with error code 2820.
4014637	Restoration to original location failing with EC 2820.
4014702	Adds support for OpenSource HA for non-LVM.
4014704	Adds support for OpenSource HA for non-LVM.
4014973	This EEB adds support for using the Subject Common Name (CN) as the identifier for external certificates in NetBackup
4015088	Upgrades Appache Shiro JARs to version 1.6.0.
4015206	Duplicate client entries/VM alias appear in OpsCenter reports after upgrade to NetBackup 8.3.
4015395	nbcplogs collects legacy logs outside of date range when range specified.
4015599	Status 71 One Linux GVFS F/S. Unable to exclude the GVFS F/S to avoid issue.
4015659	Opscenter alerts for dummy master servers.
4015692	MariaDB backups does not always return the correct error code. At times, NetBackup returns status 0 even when job fails.
4015947, version 3	The EEB bundle contains fixes for Cloud Catalyst issues on NetBackup 8.3.0.1.
4016062	Accelerator Forced rescan backup completed with status 1. There is a known issue with NetApp filers where they give 'old' dates and it has been seen where the DUMP_DATE returned comes before the DUMP_DATE performed on the previous incremental.
4016286, version 2, 1	Accelerated NDMP images fail with status code 13 due to inode corruption in images. Enable logging to dump BITS and CLRI map.
4016414	Updates Jackson JAR version to 2.10.4 due to vulnerabilities in version 2.9.5.

Table 2-1 Previous EEBs now resolved in NetBackup 9.1 *(continued)*

Etrack Number	EEB Description
4016519	nbdiscover crashes when certain value is NULL
4017052	Corrects problem in NetBackup 8.3 where multiplexed backups to tape are no longer restorable in a domain with a Solaris SPARC master server. Stops duplication jobs from silently creating corrupt copies of said images.
4017180	Communication between two hosts is failing with error code 8731 (The subject name of the certificate is not in the valid format).
4017208	bpsetconfig / nbsetconfig are not updating entries for ACCELERATOR_TRACKLOG_FREE_SPACE_PERCENT or ACCELERATOR_TRACKLOG_FREE_SPACE_MB
4017325	Updates spring and common JARs on media server and client.
4017506	Cannot edit VM query starting with NOT.
4017615	bperror CLI reports 'Failed to execute workflow for vmware (2) with request.....'
4017709, version 1	Catalog .f files migrated from windows to Linux are not getting backed up properly with the catalog backup.
4017858	After upgrade to 8.3, catalog backup completes partially successfully.
4017957	Universal Share deduplication issue occurs with Azure Cloud.
4018148	Imported images have their retention level set to Infinite when import SLP uses target retention.
4018229	Cluster monitor is not detecting nbwmc service as running, causing a NetBackup cluster resource fault.
4018257	Apache Tomcat upgrade to mitigate vulnerabilities.
4018344	This release contains added support for a command to remotely execute bpmount -i and provide output.
4018358	Duplicate client entries/VM alias appear in OpsCenter reports after upgrade to NetBackup 8.3.
4018459	Custom OpsCenter report not displaying expected number of down tape drives.
4018478	For Opscenter version 8.3.0.1, unable to remove objects from Master Server and Policy views. Delete From Node button remains greyed out or disabled.
4018576, version 1	Not able to restore Nutanix AHV VMs to Nutanix AOS version 5.18 using NetBackup 8.2 release. This EEB fixes the issue and enables Nutanix AOS 5.18 support.
4018732	Provides Java JRE version (1.8.0_271) for all platforms.

Table 2-1 Previous EEBs now resolved in NetBackup 9.1 *(continued)*

Etrack Number	EEB Description
4018738, version 1	Required storage unit is not available after upgrade to 8.3.
4018864	Vulnerability is found in itext JAR shipped with OpsCenter.
4018986	Oracle backups run slow.
4019034, version 1	bojobd hangs at midnight while cleaning up old job files.
4019082	EEB contains fix for following: Report window period goes beyond 90 days, Unhandled backup selection format for Oracle.
4019201	Universal share deduplication issue occurs with Azure Cloud.
4019203	MYSQL backups do not always return the correct error code. At times, NetBackup returns status 0 even when the job fails.
4019316	With NetBackup 8.2, NDMP Full acclerated backups fail error codes 13, 25 and 233.
4019326	Corrects problem in NetBackup 8.3 where multiplexed backups to tape are no longer restorable in a domain with a Solaris SPARC master server. Stops duplication jobs from silently creating corrupt copies of said images.
4019473	VxUpdate upgrade of a Windows client fails due to bpps process running.
4019559	The VMDK compression doesn't seem to be working. Not all calls to open the VMDK use the data compression flags.
4019587	Unable to login to Web UI with AD user who is part of AD group which was granted RBAC permissions on a NetBackup appliance.
4019613	Tomcat certificate is not renewed automatically on clustered master server.
4019635	vCloud Director queries fails with Status 1 whenever VCD integration option is checked on policy.
4019661	When using NBWSS WebSocket channel to invoke NetBackup REST APIs with sensitive request/response body such as credentials.
4019663	When using NBWSS WebSocket channel to invoke NetBackup REST APIs with sensitive request/response body such as credentials.
4019704	When aged third-party backup snapshots are present in Nutanix Prism, if the policy contain Deferential and Full schedule, then stale snapshots are observed on the cluster.
4019815	Bbpkar faults with libxm.dll despite a previous EEB being installed (replacement for libxm.dll).
4019831	Clients with names that differ only in character case should not be permitted in policies.

Table 2-1   Previous EEBs now resolved in NetBackup 9.1 *(continued)*

Etrack Number	EEB Description
4019851	AzureGov cloud GUI unable to display buckets during cloud configuration setup.
4019858	Universal share deduplication issue occurs with Azure Cloud.
4019859	Prevent fd conflict during service startup and potential later excessive logging during connection accept processing.
4020022, version 1	VMware redirected restoring vcd not populating ESX field in GUI.
4020038	nbdeployutil report does not include Oracle data.
4020247, version 2	Bundle of fixes for OST changes from 9.0 release.
4020306	Capacity of clients/servers protected using NetBackup Self Service in usage reports.
4020307	Capacity of clients/servers protected using NetBackup Self Service in usage reports
4020308	Capacity of clients/servers protected using NetBackup Self Service in usage reports.
4020455	nbdeployutil user password appears in admin log file.
4020493	iSCSI disks are ignored during Windows BMR restore.
4020533	Windows NTFS mapping fix for low numbered File IDs seen on some systems.
4020631	Fixes an issue in credential fetching caused by a passphrase that is too long.
4020696	Fixes issues in full and differential backups of universal share and Enables Windows ACLs support on universal share of type SMB.
4020865	CVE vulnerability found in Tomcat
4021027	Provides config parameter (BPFIS_VNET_ACCEPT_TIMEOUT_IN_SEC) to set the accept timeout for bpfis on client.
4021200	Quota doe not displaying the correct data usage size due to a special AD user account issue.
4021284	Jobs delayed starting especially when duplication jobs are started on a Windows master server with NBAC enabled.
4021344	Hbase backup failed with error 13 if hbase.rootdir has cluster namespace of NameNode in hbase.site.xml for hbase.rootdir
4021630	NBDB is not available and vxdbms.conf becomes empty in the master server container after power loss on the master node.
4021634, version 3, 2, 1	The EEB bundle contains the fixes for MSDP issues on NetBackup 9.0

Table 2-1 Previous EEBs now resolved in NetBackup 9.1 *(continued)*

Etrack Number	EEB Description
4021693	bpbkar32.exe crashes during VMware INCR backup when getting metadata info from a particular size of VMDK.
4021698	Fixed the identifying language name from msi so that it can copy/install the required language specific files in SRT from language pack.
4021714	NBPEM can build up a large queue, this change will log this condition to improve detection of the issue.
4021722	Universal Share deduplication issue occurs with Azure Cloud.
4021761	Vulnerability found in Tomcat with NetBackup 8.2
4021867	Incremental NBDEPLOYUTIL stops working
4022061	In the NetBackup web UI and via APIs, fetching storage unit fails with the message "failed to fetch storage unit details".
4022070	Unable to attach vApp network implicitly when vApp gets recreated post restore.
4022198	Unable to complete defragmentation of OpsCenter database.
4022299	bpbkar32.exe crashes during VMware INCR backup when getting metadata info from a particular size of VMDK.
4022363	VMware backup fails with bpbkar crash on the backup host.
4022733	Restore request with large number of files via bprestore causes bpdbm to consume all of master server memory.
4022764	Bpdown.exe is failing with status 5, due to some performance snapshot validations failing even though all services seems to be down. It causes JRE upgrade to roll back and ends up stopping Netbackup upgrade to latest version.
4022878	Vulnerability found in itext JAR shipped with OpsCenter 8.3.0.1.
4022884	Browse from pre 8.3 Snapshots fails due to missing tag for QueryAllocatedBlocks in Vix configuration file.
4022987	Capacity (FETB) values for clients/servers protected using NetBackup Self Service (NSS) in usage reports and Usage Insights or Smart Meter.
4023040	Unable to 'Delete from Node' in Settings - Views - Objects on Node as option is greyed out.
4023109	VMware MS-SQL ASC backup job fails with Status 20.
4023131	Unable to complete defragmentation of OpsCenter database.

Table 2-1   Previous EEBs now resolved in NetBackup 9.1 *(continued)*

Etrack Number	EEB Description
4023159	NDMP Direct Copy Duplication to a tape storage unit fails with status code 191 during tape spanning.
4023202	Sometimes restore job fails for Corba timeout or pipe already open error.
4023611	VMware Backups with Replication Director Fails with Exit Status 196.
4023658, version 1	After ECA setup on master. Delays encountered, causing backups to not move forward
4023752	Oracle RAC DB restore to original server fails with error 'server exited with status 227: no entity was found'
4023793	OpsCenter displays incorrect details intermittently.
4024241	Media not getting released if restore is done from backup spanning Media and when client is identified as SAN client but no FT is found.
4024249	Fixes .f file path getting cleared too early resulting in .f files not being cleaned up properly.
4024277	Unable to failover NetBackup web management console service on 2 node WSFC
4024335	HP LTO-8 tape drives fail to mount/write WORM media.
4024361	Oracle backup reports the discovered Database ID or Database Unique Name did not match the ID or Name that was expected or provided.
4024371	Enabling FIPS for Cloud Storage results in backup failure.
4026419, version 1	Bundle EEB for: - Acceleration not occurring across LSUs when using multi-volume diskgroup. - Getting error in webui when configure mutiple volumes in diskpool of ost device.
4026445	MariaDB backups does not always return the correct error code.
4026507	BMR fails to restore Windows client having iSCSI disks.
4026563	Updates JRE version to 281.
4026641	bpfis hangs for some vCloud backups.
4026877	NetBackup 9.0 does not support vCloud Director 10.2 due to API incompatibilities. This EEB adds support for vCloud Director 10.2 by using vCloud API version 32.0. As a result this EEB will only support vCloud Director 9.7 and later.
4026925	Jackson JAR is upgraded to 2.10.4 for client machines due to vulnerability in 2.9.5.
4026976	If a block exists that is unencrypted and the new backup shares that block, it will not write a new encrypted block; instead, it will just reference the unencrypted block.

Table 2-1   Previous EEBs now resolved in NetBackup 9.1 *(continued)*

Etrack Number	EEB Description
4026988	Restoring a VM with SAN transport mode fails with Error 2820.
4027087	After upgrading to NetBackup 8.3, SQL databases running in single user mode fail with status code 6.
4027159	Duplicate client entries/VM alias appear in OpsCenter reports after upgrade to 8.3.
4027300	Jobs are delayed starting especially when duplication jobs are started on a Windows master server with NBAC enabled.
4027673	Unable to filter cloud assets using 'lastDiscoveredTime' property
4027823	Update JRE version to 281.
4027979	Oracle Intelligent Policy and SQL Intelligent Policy may run the wrong schedule for an instance after a failure. If the policy contains multiple instances or an instance group and multiple schedules Full/Archive/TLOG are supposed to run at the same time.
4028310	Errors occur while duplicating images to MSDP Cloud when Glacier is configured.
4028472	Silent upgrade of NetBackup client fails when master server is not reachable. No option is present when we want to go ahead with silent upgrade of NetBackup client when master is not reachable or security settings are not in place.
4028486	Support for volume_image_metadata is added
4028517	OpsCenter is using the wrong client names
4028685	NetBackup Windows installation process hangs or never finishes initializing.
4028775	HP LTO-8 tape drives fail to mount/write WORM media.
4028890	Netbackup NDMP Isilon Weekly backups fail with an status 41 error.
4028944	Oracle backup via OpsCenter fails with 239 when multiple instances are configured in a policy.
4028991	Allows deferred duplication of import copy in target domain.
4029061, version 1	bplist throws 227 No Entity found with single file search for Oracle backup
4029066	Duplicate records in automated data collection cause inflated FETB values in capacity report.
4029132, version 2, 1	Performance improvements for bpps -n on master servers and appliances.
4029237	NBCC can flag tapes as improperly assigned when their media server has a EMM_SERVER entry using a fully qualified version of the master server name. This fix makes NBCC alias server names with their FQName, as seen from nbemmcmd -listhosts -verbose.

Table 2-1 Previous EEBs now resolved in NetBackup 9.1 *(continued)*

Etrack Number	EEB Description
4029402	Unable to access or configure Global Security Settings and Deployment Policy. This error occurs while accessing any of the back level versions of the admin console (e.g., 8.3 or 8.3.0.1) from the 9.0 Java GUI standalone or integrated installation.
4029406	A white-space is missing between Catarc and next field (S) on bpcatlist output.
4029616, version 1	Upgraded Shiro 1.7.1 to fix CVE-2020-17523 on NetBackup 8.2 master server.
4029669	NetBackup 8.1 Client is skipping /var/tmp during backup.
4029741	Adding DB2 in DB category as nbdeployutil was not charging it properly.
4029830	HP LTO-8 tape drives fail to mount/write WORM media.
4029978	Unable to add extra drive to Netbackup Java GUI on master even although there are currently less than 256.
4030014, version 2, 1	The EEB bundle contains fixes for Cloud Catalyst and MSDP Direct Cloud Tiering issues on NetBackup 8.3.
4030314	Restore of large number of files using bprestore command fail with status 42.
4030376	Windows user having password expiry more than 30 days will not be displayed correctly. It will be displayed after deducting 30 days from total password expiry on user information dialog box.
4030617	A log file with timestamp is not created by log rotation of NetBackup for PostgreSQL Agent.
4030627	bpsetconfig / nbsetconfig are not updating entries for ACCELERATOR_TRACKLOG_FREE_SPACE_PERCENT or ACCELERATOR_TRACKLOG_FREE_SPACE_MB
4030666	Adds ability to search based on display name in web UI Activity Monitor.
4030834	VxUpdate upgrades of clients with a noexec /tmp directory fail.
4030838	When nbpem is terminated, nbproxy does not shutdown gracefully and nbpem forcefully kills nbproxy. The following message is seen in nbproxy logs: failed to gracefully exit. Will attempt to terminate.
4030866	PBX was referring to an old resource dll for a resource string. That resource is removed from the DLL.
4030893	Fix to cleanup VM on a failed vCloud Director import.
4030941	After ECA setup on a master server, delays are encountered, causing backups to not move forward due to large numbers of entries in CRL file.

Table 2-1   Previous EEBs now resolved in NetBackup 9.1 *(continued)*

Etrack Number	EEB Description
4031038	This fix changes how Legacy Oracle full backup and other stub images are expired. Images will no longer expire before their expiration is met unless they explicitly have an infinite retention level.
4031040	After upgrading to NetBackup 9.0, SQL server backups fail as dbbackex.exe process crashes.
4031137, version 1	The EEB bundle contains fixes for MSDP Direct Cloud Tiering issues on NetBackup 9.0.
4031183	NetBackup 9.0.0.1 does not support vCloud Director 10.2 due to API incompatibilities. This EEB adds support for vCloud Director 10.2 by using vCloud API version 32.0. As a result this EEB will only support vCloud Director 9.7 and later.
4031395	After upgrading CentOS based OpenStack setup, backup / restore is failing as new WebServer is sending non-standard response to APIs
4031481	Accelerator Full backup is unable to leverage an Isilon snapshot as expected when there are no changes between backups. The issue occurs only when there is no change in the data between backups.
4031611	OpsCenter view nom_Driveusage shows wrong media server (vmhost)
4032242	Backup is forced for every Differential Incremental backup when TIR Enabled. As a result, the size of bpbkar logs grows quickly with 'detected renamed/new file' message when the file list is very large.
4032407, version 1	A mechanism to reduce CRL downloads or to disable out of band CRL caching.
4032442	Image cleanup job fails to set WORM immutable lock for images on Data-Domain.
4032926	Oracle backup via Opscenter fails with 239 when multiple instances configured in policy
4032942	Unable to log in to the NetBackup Administration Console with non-admin user. bpjava-msvc.exe experiences a core dump.
4033025	NetBackup Windows installation process hangs or never finishes initializing.
4033193	NetBackup 8.3.0.1 does not support vCloud Director 10.2 due to API incompatibilities. This EEB adds support for vCloud Director 10.2 by using vCloud API version 32.0. As a result this EEB will only support vCloud Director 9.7 and later.
4033330	NetBackup for MSSQL metadata job is spawned for incorrect client hostname
4033371	Adds ability to search based on display name in web UI Activity Monitor.
4033614	Restoring a VM with SAN transport mode fails with Error 2820.

Table 2-1   Previous EEBs now resolved in NetBackup 9.1 *(continued)*

Etrack Number	EEB Description
4033665	MongoDB backup failed with 'The snapshot could not be created. (6658)' if the VG name includes '-' character.
4033767	After upgrade to 9.0.0.1, unable to access the OpsCenter UI
4033774	SAN Client initiator could not be detected after NBA reboot
4033853	Duplicate client entries/VM alias appear in OpsCenter reports after upgrade to NetBackup 8.3.
4033913	When logging in to NetBackup Web UI, if the password has a 'less than' character, the following error message appears: An invalid API request is encountered.
4034624, version 2, 1	When attempting to perform an Instant Access restore to an alternate ESXi host, you are unable to view the resource pool because the WebUI assumes that you need an ESXi credential when it should be looking for a VC credential.
4034967	NDMP images written with direct access restore could fail to restore.
4035052	A log file with timestamp is not created by log rotation of NetBackup for PostgreSQL Agent.
4035055	Backup is forced for every Differential Incremental backup when TIR Enabled. As a result the size of Netbackup bpbkar logs grows fast with 'detected renamed/new file' messages even at low logging levels.
4035114	Image cleanup job fails to set WORM immutable lock for images on Data-Domain.
4035120	Fixes JQuery Vulnerbiliy on OpsCenter 9.0.
4035231	ADK 8.1 download and installation link is removed by Microsoft. This fix will solve the issue by using ADK 10 for SRT creation.
4035403, version 1	S-SQL Server backups in clustered, multi-nic environment failing with status code 239, because of wrong client name used for backup. The EEB bundles this fix along with the fix for- NetBackup for MSSQL metadata job is spawned for incorrect client hostname
4036366, version 1	Microsoft has removed ADK 8.1 download link. The customers who don't have already downloaded/installed ADK 8.1, will be blocked from using Windows BMR restores.
4036367	ADK 8.1 download and installation link is removed by Microsoft. If it's not already downloaded/installed, you won't be able to perform Windows BMR restores.
4036832	Restoring a VM with SAN transport mode fails with Error 2820.
4037078	The customers who haven't already downloaded and installed ADK 8.1 are not able to create Windows SRT and cannot perform Windows BMR restore.

Table 2-1   Previous EEBs now resolved in NetBackup 9.1 *(continued)*

Etrack Number	EEB Description
4037339	nbsu binary is in a broken state.
4037366	A log file with timestamp is not created by log rotation of NetBackup for PostgreSQL Agent.
4037529	Updates JRE version to 291.
4038051	Update JRE version to 291.
4038061	Admin unable to create an Amazon gov storage with a passphrase and private certificate.
4038727	Unable to login into NetBackup Administration Console, receiving error 518.
4039165, version 1	Performance improvements for bpps -n on master servers, especially appliances.
4039589, version 2	SQL databases running in single user mode fail with status code 6, and MS-SQL Server backups in clustered, multi-nic environment failing with status code 239.
4040154	HP LTO-8 tape drives fail to mount/write WORM media.

Other know issues resolved in NetBackup 9.1

Etrack Incident: 3976594

- Associated Primary Etrack: 3976331

- Associated Service Request Etrack(s): 3976330

- Description:
  PostgreSQL backup failed with "ERR: Ownership of WAL directory should be postgres".

Etrack Incident: 4007962

- Associated Primary Etrack: 4003275

- Associated Service Request Etrack(s): 4003274

- Description:
  bpbackup command functionality failed when -w option was specified with -i -p -s -h -bt options.

Etrack Incident: 4014343

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:

APTARE report for Cloud Jobs should use user friendly display name if its available.

Etrack Incident: 4015006

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  Oracle intelligent policies ran in backup mode without failing the job and generating an appropriate status code.

Etrack Incident: 4016001

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  VxAT cipher suites were not updated with upgrade.

Etrack Incident: 4016509

- Associated Primary Etrack: 4014980

- Associated Service Request Etrack(s): 4014979

- Description:
  NAS-Data-Protection policy type failed when encountering a named pipe.

Etrack Incident: 4017986

- Associated Primary Etrack: 4017322

- Associated Service Request Etrack(s): 4017321

- Description:
  A Spring vulnerability on media server was detected on NetBackup 8.3 with Red Hat.

Etrack Incident: 4017987

- Associated Primary Etrack: 4017322

- Associated Service Request Etrack(s): 4017321

- Description:
  A Spring vulnerability on media server was detected on NetBackup OpsCenter 8.3 with Red Hat.

Etrack Incident: 4019073

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  Upgrading to NetBackup 8.3 wrote over custom settings in
  OpsCenterServerService.xml and OpsCenterGUIService.xml files.

Etrack Incident: 4019308

- Associated Primary Etrack: 4018743

- Associated Service Request Etrack(s): 4018742

- Description:
  Unable to install NetBackup 8.3 after a failed upgrade to 8.3.0.1.

Etrack Incident: 4019332

- Associated Primary Etrack: 4017387

- Associated Service Request Etrack(s): 4017386

- Description:
  Appliance media server upgrades failed if `vm.conf` file was present.

Etrack Incident: 4020233

- Associated Primary Etrack: 4016978

- Associated Service Request Etrack(s): 4016977

- Description:
  OpsCenter Support sometimes failed to gather the database files despite
  selecting "y" at the prompt to do so.

Etrack Incident: 4023564

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  MS escalation.

Etrack Incident: 4024252

- Associated Primary Etrack: 4024052

- Associated Service Request Etrack(s): 4024051

- Description:
  NetBackup 9.0 Flex instance upgrades were not successful.

Etrack Incident: 4026403

- Associated Primary Etrack: 4020793

- Associated Service Request Etrack(s): 4020792

- Description:
  OpsCenter upgrade or DR overwrote keystore that had imported custom certificates.

Etrack Incident: 4027015

- Associated Primary Etrack: 4026885

- Associated Service Request Etrack(s): 4026884

- Description:
  CloudPoint restore of individual volumes to alternate instance failed.

Etrack Incident: 4027722

- Associated Primary Etrack: 4027348

- Associated Service Request Etrack(s): 4027347

- Description:
  Nutanix Files plugin configuration failed to parse the `GET_PARTNER_SERVERS` outputs.

Etrack Incident: 4027840

- Associated Primary Etrack: 4022239

- Associated Service Request Etrack(s): 4022238

- Description:
  Security vulnerabilities were detected.

Etrack Incident: 4027951

- Associated Primary Etrack: 4023053

- Associated Service Request Etrack(s): 4023052

- Description:
  Original text: N/A. Edited text for RN: Master Host properties were not persistent after reboot.

Etrack Incident: 4028197

- Associated Primary Etrack: 4024163

- Associated Service Request Etrack(s): 4024162

- Description:
  After CloudPoint was upgraded to 8.3.0.8861 login to CP server failed, and flexsnap-coordinator kept restarting.

Etrack Incident: 4028427

- Associated Primary Etrack: 4027084

- Associated Service Request Etrack(s): 4027083

- Description:
  Unable to add MSDP Direct cloud tier to 5240 appliance storage server.

Etrack Incident: 4029114

- Associated Primary Etrack: 4021398

- Associated Service Request Etrack(s): 4021397

- Description:
  The Accelerator Data Sent column in reports showed no data even though data was sent.

Etrack Incident: 4029235

- Associated Primary Etrack: 4021398

- Associated Service Request Etrack(s): 4021397

- Description:
  The Accelerator Data Sent column in reports showed no data even though data was sent.

Etrack Incident: 4029453

- Associated Primary Etrack: 4029213

- Associated Service Request Etrack(s): 4029212

- Description:
  After upgrading to NetBackup 8.3, some CloudPoint snapshots in Azure could not be found.

Etrack Incident: 4029521

- Associated Primary Etrack: 4023761

- Associated Service Request Etrack(s): 4023760

- Description:
  Attempting to add an RHV manager in the NetBackup web UI consistently failed with an "Invalid credentials" message.

Etrack Incident: 4029828

- Associated Primary Etrack: 4028387

- Associated Service Request Etrack(s): 4028386

- Description:

NetBackup 8.2 RPM client install package failed because /tmp has noexec option enabled.

Etrack Incident: 4030288

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  An upgrade to Hibernate 5.4.25 was required.

Etrack Incident: 4031272

- Associated Primary Etrack: 4031646

- Associated Service Request Etrack(s): 4031645

- Description:
  The NetBackup installer failed to clean up the log files it created.

Etrack Incident: 4031804

- Associated Primary Etrack: 4031761

- Associated Service Request Etrack(s): 4031760

- Description:
  Unable to cancel backup ID which exist in SLP version which does not exist.

Etrack Incident: 4033038

- Associated Primary Etrack: 4031925

- Associated Service Request Etrack(s): 4031924

- Description:
  Discovery failed when environment has instances with attached regional disks.

Etrack Incident: 4033191

- Associated Primary Etrack: 4033192

- Associated Service Request Etrack(s): 4033874

- Description:
  Accelerator backups failed with status 155 due to 5 GB free space requirement for track logs.

Etrack Incident: 4034453

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:

While doing a re-enrollment of a certificate for a host with a different common name, received EXIT STATUS 5908: Unknown error occurred.

Etrack Incident: 4035346

- Associated Primary Etrack: 4029799

- Associated Service Request Etrack(s): 4029798

- Description:
  Backup Now fails with "system error occurred".

Etrack Incident: 4036461

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  Appliance CLISH run of NBSU didn't show the default `/log/netbackup/nbsu` path in the final output.

Etrack Incident: 4036491

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  Multiple incorrect Windows paths in NBU_nbdb_info.txt were generated by NBSU.

Etrack Incident: 4037441

- Associated Primary Etrack: 4033060

- Associated Service Request Etrack(s): 4033059

- Description:
  AWS discovery experienced an error: "botocore.exceptions.ReadTimeoutError: Read timeout on endpoint URL:"

Etrack Incident: 4037707

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  Original text: N/A. Edited text for RN: Too many files in `<install_path>`NetBackup\Logs\user_ops caused the installation to fail.

Etrack Incident: 4013611

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  When OS restarted on the media server, spoold would hang because it started while spad had not started yet. "Event 7022 NetBackup Deduplication Engine Service hang on starting" was recorded in the system event log.

Etrack Incident: 4018755

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  Includes multiple fixes for the primary server.

Etrack Incident: 4026510

- Associated Primary Etrack: 4023463

- Associated Service Request Etrack(s): 4023462

- Description:
  NetBackup appliance upgrade from 3.1.1/8.1.1 to 3.3.0.1/8.3.0.1 paused and rolled back (failed) at 75% due to problems with MSDP upgrade section.

EEBs and other known issues resolved in NetBackup 9.0.0.1

This chapter includes the following topics:

- Previous EEBs now resolved in NetBackup 9.0.0.1

- Other known issues resolved in NetBackup 9.0.0.1

Previous EEBs now resolved in NetBackup 9.0.0.1

Table 3-1 contains a listing of known issues with NetBackup that were identified, fixed, and made available to customers in the form of an emergency engineering binary (EEB). NetBackup 9.0.0.1 resolves the issues that were fixed with each of these EEBs.

More information on the Etracks that are listed in this topic (and any other service request Etrack) can be found using the Veritas Services and Operations Readiness Tools (SORT) website.

https://sort.veritas.com/netbackup

Table 3-1	Previous EEBs now resolved in NetBackup 9.0.0.1
Etrack Number	**EEB Description**
3987480, version 4	nbrestorevm fails with -vcdlfree switch. vCloud Director VIP smart query and restore times out/fails. Support for vCloud director 9.5.
3989338	SQL Server backup fails when Windows security prevents use of CryptAcquireContext API.

Table 3-1   Previous EEBs now resolved in NetBackup 9.0.0.1 *(continued)*

Etrack Number	EEB Description
4005235	Nbdeployutil crashes when running a large manual report.
4005511	A core dump issue occurs with bpduplicate while doing nutanix_vault profile job.
4007309	Some special characters are removed before logging VM name.
4008387	Isilon NDMP backup fails with Error bpbrm (pid=327932) db_FLISTsend failed: network connection timed out (41)
4009386	Unable to complete defragmentation of OpsCenter 8.2 database on RHEL server.
4010745	SQL Intelligent Policy backup fails if the registered user is not already logged in via some other means.
4010952	NDMP backups failing with status 99 and in the log unimplemented error code 114.
4011200, version 2, 1	Restore or duplication will fail due to memory allocation error when MSDP map file size is larger than 2G.
4011665	This EEB provides code logic to detect the hang issue.
4012447	Bpbkar process uses high memory on RedHat 7.6 NetBackup 8.1.2 while backing up GPFS filesystem.
4013531, version 1	VMware Application State Capture (ASC) job failures are not reported by bperror command.
4013950	nbdeployutil incremental reporting not working.
4014381	Universal Share deduplication issue occurs with Azure Cloud
4014706	This EEB provides added support for OpenSource HA for non-LVM.
4015659	Opscenter alerts for dummy master servers.
4017208	bpsetconfig / nbsetconfig are not updating entries for ACCELERATOR_TRACKLOG_FREE_SPACE_PERCENT or ACCELERATOR_TRACKLOG_FREE_SPACE_MB
4017615	bperror CLI reports 'Failed to execute workflow for vmware (2) with request.....'
4017709, version 1	Catalog .f files migrated from windows to Linux are not getting backed up properly with the catalog backup.
4017957	Universal Share deduplication issue occurs with Azure Cloud.
4018148	Imported images have their retention level set to Infinite when import SLP uses target retention.

Table 3-1   Previous EEBs now resolved in NetBackup 9.0.0.1 *(continued)*

Etrack Number	EEB Description
4018344	This release contains added support for a command to remotely execute bpmount -i and provide output.
4018478	For Opscenter version 8.3.0.1, unable to remove objects from Master Server and Policy views. Delete From Node button remains greyed out or disabled.
4019082	EEB contains fix for following: Report window period goes beyond 90 days, Unhandled backup selection format for Oracle.
4019201	Universal share deduplication issue occurs with Azure Cloud.
4019559	The VMDK compression doesn't seem to be working. Not all calls to open the VMDK use the data compression flags.
4019587	Unable to login to Web UI with AD user who is part of AD group which was granted RBAC permissions on a NetBackup appliance.
4019635	vCloud Director queries fails with Status 1 whenever VCD integration option is checked on policy.
4019819	Updates Tomcat to 9.0.38 or higher to resolve CVE-2020-13943 for OpsCenter version 8.2.
4019851	AzureGov cloud GUI unable to display buckets during cloud configuration setup.
4019858	Universal share deduplication issue occurs with Azure Cloud.
4020022, version 1	VMware redirected restoring vcd not populating ESX field in GUI.
4020038	nbdeployutil report does not include Oracle data.
4020306	Capacity of clients/servers protected using NetBackup Self Service in usage reports.
4020307	Capacity of clients/servers protected using NetBackup Self Service in usage reports
4020308	Capacity of clients/servers protected using NetBackup Self Service in usage reports.
4020455	nbdeployutil user password appears in admin log file.
4020493	iSCSI disks are ignored during Windows BMR restore.
4020696	Fixes issues in full and differential backups of universal share and Enables Windows ACLs support on universal share of type SMB.
4021177	Tomcat version 9.0.37 shipped with Netbackup affected by CVE vulnerability
4021200	Quota doe not displaying the correct data usage size due to a special AD user account issue.

Table 3-1 Previous EEBs now resolved in NetBackup 9.0.0.1 *(continued)*

Etrack Number	EEB Description
4021630	NBDB is not available and vxdbms.conf becomes empty in the master server container after power loss on the master node.
4021714	NBPEM can build up a large queue, this change will log this condition to improve detection of the issue.
4021722	Universal Share deduplication issue occurs with Azure Cloud.
4021867	Incremental NBDEPLOYUTIL stops working
4022198	Unable to complete defragmentation of OpsCenter database.
4022378	CVE vulnerability found in Tomcat.
4022987	Capacity (FETB) values for clients/servers protected using NetBackup Self Service (NSS) in usage reports and Usage Insights or Smart Meter.
4023040	Unable to 'Delete from Node' in Settings - Views - Objects on Node as option is greyed out.
4023131	Unable to complete defragmentation of OpsCenter database.
4023134	Security vulnerability found in older version of tomcat, upgrading to 9.0.40.
4023752	Oracle RAC DB restore to original server fails with error 'server exited with status 227: no entity was found'
4024335	HP LTO-8 tape drives fail to mount/write WORM media.
4024361	Oracle backup reports the discovered Database ID or Database Unique Name did not match the ID or Name that was expected or provided.
4026507	BMR fails to restore Windows client having iSCSI disks.
4026641	bpfis hangs for some vCloud backups.
4027539	This EEB provides security requirements for upgrading Apache Tomcat version to 9.0.40 on NetBackup 9.0.
4028310	Errors occur while duplicating images to MSDP Cloud when Glacier is configured.
4028685	NetBackup Windows installation process hangs or never finishes initializing.
4028775	HP LTO-8 tape drives fail to mount/write WORM media.
4028890	Netbackup NDMP Isilon Weekly backups fail with an status 41 error.
4029066	Duplicate records in automated data collection cause inflated FETB values in capacity report.

Table 3-1	Previous EEBs now resolved in NetBackup 9.0.0.1 *(continued)*

Etrack Number	EEB Description
4029616, version 1	Upgraded Shiro 1.7.1 to fix CVE-2020-17523 on NetBackup 8.2 master server.
4029830	HP LTO-8 tape drives fail to mount/write WORM media.
4030627	bpsetconfig / nbsetconfig are not updating entries for ACCELERATOR_TRACKLOG_FREE_SPACE_PERCENT or ACCELERATOR_TRACKLOG_FREE_SPACE_MB

Other known issues resolved in NetBackup 9.0.0.1

This topic contains a list of some of the known issues that were fixed and included in the NetBackup 9.0.0.1 release.

Etrack Incident: 4026612

- Associated Primary Etrack: 4024163

- Associated Service Request Etrack(s): 4024162

- Description:
  Upgrade from 2.2.2 to 8.3 became stuck with coordinator in restarting state.

Etrack Incident: 4027051

- Associated Primary Etrack: 4026885

- Associated Service Request Etrack(s): 4026884

- Description:
  CloudPoint restore of individual volumes to alternate instance failed.

Etrack Incident: 4027726

- Associated Primary Etrack: 4027348

- Associated Service Request Etrack(s): 4027347

- Description:
  Nutanix Files plugin configuration failed to parts the GET_PARTNER_SERVERS outputs.

Etrack Incident: 4027839

- Associated Primary Etrack: 4022239

- Associated Service Request Etrack(s): 4022238

- Description:

CVE-2020-26258 and CVE-2020-26259 vulnerabilities were potentially detected in security scans.

Etrack Incident: 4028903

- Associated Primary Etrack: 4023256

- Associated Service Request Etrack(s): 4023255

- Description:
  LDAP authentication against 389 stopped working after upgrading from NetBackup 8.1.1 to NetBackup 8.3.

Etrack Incident: 4029452

- Associated Primary Etrack: 4029213

- Associated Service Request Etrack(s): 4029212

- Description:
  Some CloudPoint snapshots in Azure could be found after upgrading to NetBackup 8.3.

Etrack Incident: 4030177

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  Accelerator backups to Cloud Catalyst and MSDP Cloud were causing high costs due to a low minimal validation interval.

EEBs and other known issues resolved in NetBackup 9.0

This chapter includes the following topics:

Previous EEBs now resolved in NetBackup 9.0

Table 4-1contains a listing of known issues with NetBackup that were identified, fixed, and made available to customers in the form of an emergency engineering binary (EEB). NetBackup 9.0 resolves the issues that were fixed with each of these EEBs.

More information on the Etracks that are listed in this topic (and any other service request Etrack) can be found using the Veritas Services and Operations Readiness Tools (SORT) website.

https://sort.veritas.com/netbackup

Table 4-1　　　　Previous EEBs now resolved in NetBackup 9.0

Etrack Number	EEB Description
3980582	DB2 backups fail until restarted. DB2sys dumps during the process and no backups then take place.

Table 4-1   Previous EEBs now resolved in NetBackup 9.0 *(continued)*

Etrack Number	EEB Description
3981134, version 23, 22, 21, 20, 19, 18, 17, 16	The EEB bundle contains common fixes for MSDP issues on NetBackup 8.2
3981837, version 17, 16	The EEB bundle contains fixes for Cloud Catalyst issues on NetBackup 8.2.
3985362	Encryption key is present in the key file in the client. Scheduled backups are configured for policy with encrypt option enabled. The files in backup selections are less than 256K. Delete the key in the keyfile. Scheduled backup jobs are successful.
3986713	Replaces vulnerable jars.
3986976	This EEB replaces vulnerable jars.
3987486, version 2	There are currently no limits on how many AIR jobs can run simultaneously. This can cause a lot of contention for NetBackup resources (such as overloading nbrb) and storage resource (too many jobs trying to write to the same replication target).
3988520, version 1	The EEB contains enhancements to have keyfile in a customized path. Add below entry in NetBackup Client Configuration using nbsetconfig command CLIENT_ENCRYPTION_KEY_PATH=/mypath/keyfilename
3988602	Vulnerable spring jars 4.3.5 were packaged with NetBackup.
3988653	The EEB contains enhancements to have keyfile in a customized path. Add below entry in NetBackup Client Configuration using nbsetconfig command CLIENT_ENCRYPTION_KEY_PATH=/mypath/keyfilename. Improving the efficiency and behavior of hostdb.cache.
3989188	This EEB will replaces vulnerable spring jars with non vulnerable spring jars.
3991153	Modify the encryption format of a tape, to encrypt all data except the media header. The media header and in-cartridge memory have several fields de-populated to avoid exposing information that could be useful to an attacker.
3993611	Upgrade to Tomcat version 8.5.53 on OpsCenter 8.2 Server is required due to security vulnerabilities.
3993893	Oracle backups are causing service restarts.
3994065	Backups fail with status 25 when more than 64 IP's configured on the client.
3994195	This EEB will replaces vulnerable spring jars with non vulnerable spring jars.
3994951	Backports nb_monitor_util - CLI utility - to monitor NetBackup events and fetch different information.

Table 4-1   Previous EEBs now resolved in NetBackup 9.0 *(continued)*

Etrack Number	EEB Description
3994952	Backports nb_monitor_util - CLI utility - to monitor NetBackup events and fetch different information.
3996250	Upgrade to Tomcat version 8.5.53 on OpsCenter 8.1.2 Server is required due to security vulnerabilities.
3996536	NetBackup 8.2 GUI cannot expand the tablespace list when trying to browse DB2 database structure.
3996724	Backups fail with status 25 when more than 64 IP's configured on the client.
3996875	nbcertcmd on client runs hastatus -summary on cluster node to validate if it is an active node.
3999274	EEB contains the latest Sybase Anywhere patch #17.0.10.6127 to fix the issue of database server crashing due to corrupt index.
4000282	Windows 8.1.2 client backed up with multiple policies fails during BMR DSR to a HyperV VM with 1002 (Failed to verify backup).
4000294	The database contains a number of VM clients with inconsistencies that are causing the Week at a Glance and other reports to display incorrect data.
4001960	This EEB adds NetBackup for OpenStack enhancements: 1. Global Admin 2. Ceph based Cinder volume support 3. Save extra metadata
4002141	JRE needs to be upgraded to 1.8_251
4002163	Image clean up jobs are not getting initiated.
4002172, version 3	EEB Bundle containing two NBSL fixes: OpsCenter Data Collection is not working and the NBSL service is getting crash frequently on cluster master server.
4003077	DFSR backup fails while taking an excessive amount of time in preprocessing.
4004031	Corrects critical error for eval license shown in nbemm logs.
4004448	nbcatsync will stop working when resume number of the image is changed after replication.
4004732	A functionality exception occurs for BMR supporting a restore when the client is using two different networks to connect to master and media servers.
4004754	A stack overflow is often caused by bpbkar32 during VADP backup.
4004767	This EEB will replaces vulnerable spring jars with non-vulnerable spring jars.
4004911	Netbackup is connecting to old VMs which have been removed from all policies, but still exist in domain_PolicyClient table.

Table 4-1   Previous EEBs now resolved in NetBackup 9.0 *(continued)*

Etrack Number	EEB Description
4004942	Backups with large number of files fail with status code 233 intermittently.
4005824	nbcomponentupdate failed to update JRE due to version check.
4005854	The Universal Share consumes more space than expected.
4005935, version 1	SLP processing jobs are not submitted as expected. While some SLP jobs may be submitted, others are not. As a result, the SLP backlog rises.
4005955	VMware backup of Windows Server 2019 causes backup host to become unresponsive.
4006076	Appropriate name was not configured against entity for the given client ID.
4006181	After JRE is upgraded using nbcomponentupdate and then clicking in jnbSA Admin GUI 'Configure Storage Devices', the cursor rotates but nothing happens.
4006226	Upgrade to Tomcat version 8.5.55 or later on the master server is required to address Tomcat vulnerability CVE 2020-9484.
4006544	Client Direct backups fail due to incorrect network interface being used.
4006681, version 3, 2, 1	Vault eject jobs intermittently hang during multi-MAP operation on NetBackup 8.2
4006761	Upgrade to Tomcat version 8.5.5 or later on OpsCenter is required to address Tomcat vulnerability CVE 2020-9484.
4006820	NetBackup is looking for the device in a different path.
4006997	Unexpected results after installation of an EEB which is a fix for Accelerator.
4007237	Correct error handling during SSL shutdown close notify processing within nbpxyhelper/vnetd -proxy.
4007299	Post March 8th (Daylight Savings Time), the current day can show zero (0) data depending on which Relative TimeFrame is used
4007318, version 1	Backup jobs are failing intermittently with error 'premature eof encountered (233)'
4007413	Mapping volumes fails if ESP is set to anything other than the first partition.
4008558	Upgrade to Tomcat version 8.5.56 or 9.0.36 later is required to address Tomcat vulnerabilities CVE-2020-11996 and CVE-2020-9484.
4008711	This EEB contains a newer Sybase SQL Anywhere patch - 17.0.10.6160 to fix the issue of database server crash.

Table 4-1   Previous EEBs now resolved in NetBackup 9.0 *(continued)*

Etrack Number	EEB Description
4008911	Performance issues occur during VMware restore. The GUI takes some time to populate before the restore starts.
4009026	Editing policy displays bpplschedrep: must be superuser to execute.
4009029	Remote Java GUI SSO is case sensitive.
4009086	VMware backup of Windows Server 2019 causes backup host to become unresponsive.
4009098, version 1	This is bundled EEB
4009140	A security vulnerability is found in lower version of Tomcat.
4009303	VxUpdate EEB for NB 8.1.2 required for Java vulnerability.
4009313	Oracle backups are causing service restarts.
4009598	Policies taking too long to load from Laptop Java Console. Removed dependency of Oracle Instances loading on Policy loading.
4009785	Amazon cloud snapshot replica retention is not honored when it is different from the primary snapshot retention.
4009877, version 3, 2, 1	bpjobd optimization, and debugging, for update flush during JOBALL processing.
4009899	Fixes clustered vs. standalone ESXi hierarchy display for manual selection of VMware VMs.
4010158	Throttling functionality for classic cloud is not working properly.
4010272	When users duplicate an image from AdvanceDisk or other non-MSDP storage to Cloud Catalyst, no IM and TIR of images are created. Therefore, images in cloud storage cannot be listed by image sharing.
4010300	Microsoft is using '*.avs.azure.com' for domain name, which NetBackup does not support.
4010336	Amazon cloud snapshot replica retention is not honored when it is different from the primary snapshot retention.
4010434	Fixes issue in certmapinfo.json file corruption with '\u0000?' character and wrong/unrelated master server name entries in 'serverAltNames' field of certmapinfo.jason file.
4010448	Microsoft is using '*.avs.azure.com' for domain name, which NetBackup does not support.
4010585	Fixes Netbackup FETB licensing metering issue for multistream backups.
4010741	After upgrading the NetBackup master server to 8.3, BMR backup jobs may report failure.

Table 4-1   Previous EEBs now resolved in NetBackup 9.0 *(continued)*

Etrack Number	EEB Description
4010780	Proxy restores are failing when multiple users on a single machine are doing proxy backups.
4011035	A functionality exception occurs for BMR supporting a restore when the client is using two different networks to connect to master and media servers
4011100	CPU usage of spoold process always keeps 50%.
4011555	NetBackup web management console will not start after Java update to JRE 1.8.0_261
4011735	A restore of images in parallel (MPX) that have the same backup ID (share the same 'backup time') may run into severe performance degradation.
4011823	DFSR backup takes an excessive amount of time in preprocessing.
4011860	Mapping volumes fails if ESP is set to anything other than the first partition.
4012066, version 1	EEB to solve conflict of netbackup.war
4012128	8.2 OpsCenter is inaccessible after updating to JRE version 1.8.0_261 from JRE version 1.8.0_251.
4012263	Fix clustered vs. standalone ESXi hierarchy display for manual selection of VMware VMs
4012414	AIR imports fail after upgrade to NetBackup 8.3. Date and other fields appear to be missing from the IM fragments in the OST plugin logs.
4012433, version 1	Large bpdbm logs and higher CPU utilization on master. Lots of 'database is locked' message in logs.
4012437	Queries on SQL backups generate unsuccessful attempts to connect with the wrong user.
4012473	NetBackup web management console will not start after Java update to JRE 1.8.0_261.
4012475	NetBackup web management console will not start after Java update to JRE 1.8.0_261.
4012550	When NAS-Data-Protection policy is in use, NBDeployUtil fails to generate the usage reports for traditional licensing. This applies to the manual mode and scheduled mode of NBDeployUtil.
4012619, version 1	EEB bundle to upgrade tomcat and resolve login error code.
4012682	After upgrading to NetBackup 8.3, NetBackup is unable to load the OST plugin.
4012875	Cumulative EEB to solve the conflict of netbackup.war while upgrading the Tomcat.
4013200, version 1	EEB bundle to upgrade tomcat and solve NDMP manual backup issue
4013363, version 1	Fix clustered vs. standalone ESXi hierarchy display for manual selection of VMware VMs (for use with Windows Gold EEB)

Table 4-1   Previous EEBs now resolved in NetBackup 9.0 *(continued)*

Etrack Number	EEB Description
4013559	Nbdeployutil may fail to generate usage reports for traditional licensing. When 'NAS-Data-Protection' policy is in use, Nbdeployutil would fail to generate the usage reports for traditional licensing.
4013577	Unable to access OpsCenter console after upgrading JRE version to 1.8.0_261.
4013761	Problem updating remote Java console to latest JRE 1.8.0_261.
4013820	JVM crashes after updating the remote java console to the latest JRE 1.8.0_261.
4013835	RHV 4.4 support in 8.3
4015176	Java Upgrade causes NetBackup Administration Console (GUI Console) to crash after providing credentials
4015443	nbjm experienced a core dump issue from segfault.
4016087	RHV 4.4 support in 8.3.0.1
4016679, version 1	Cumulative EEB to fix the API issue along with fixes for tomcat upgrade issue
4016984	Security scanners detecting HSTS not being configured.
4017171	Filesystem backups fail with status code 233 intermittently.
4017319	Resolves security vulnerabilities for several Python modules.
4017722	Security scanners detecting HSTS not being configured. This change enables HSTS for NetBackup web services.
4017927	8.2 Gold EEB V4 doesn't contain the latest code for NBNioEndpoint.java related to Tomcat upgrade, which was causing the issue while restarting the webservices for those who installed Tomcat 8.5.50 and above
4018857	Security scanners detecting HSTS not being configured. This change enables HSTS for NetBackup web services.
4019187	Security scanners detecting HSTS not being configured. This change enables HSTS for NetBackup web services.

Other known issues resolved in NetBackup 9.0

This topic contains a list of some of the known issues that were fixed and included in the NetBackup 9.0 release.

Etrack Incident: 4000964

- Associated Primary Etrack: 3998149

- Associated Service Request Etrack(s): 3998148

- Description:
  When attempting to move EMM DB files with the `nbdb_move` command, the lock file `vxdbms_conf.lock` was not moved.

Etrack Incident: 4003802

- Associated Primary Etrack: 4003707

- Associated Service Request Etrack(s): 4003706

- Description:
  A MySQL backup left .sqlx dump files in the filesystem after the backup failed.

Etrack Incident: 4006230

- Associated Primary Etrack: 4005112

- Associated Service Request Etrack(s): 4005111

- Description:
  A NetBackup Administration Console pop-up window on login states: "6006: Unable to Connect To Server".

Etrack Incident: 4006381

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  A few disk remains offline after the Bare Metal Restore (BMR) Windows recovery completed successfully.

Etrack Incident: 4006549

- Associated Primary Etrack: 4004511

- Associated Service Request Etrack(s): 4004510

- Description:
  Unable to segregate the DB name information from command output of `nbmariadb -o query` on the MariaDB database.

Etrack Incident: 4006777

- Associated Primary Etrack: 4006221

- Associated Service Request Etrack(s): 4006220

- Description:

After installation of Cloud Catalyst EEB bundle, new checks found duplicate inodes.

Etrack Incident: 4006827

- Associated Primary Etrack: 4006110

- Associated Service Request Etrack(s): 4006109

- Description:
  FT media server failed to start `nbftsrvr` and `nbfdrv64` processes after upgrade from NetBackup 8.0 to 8.1.2 (SUSE Linux).

Etrack Incident: 4007463

- Associated Primary Etrack: 4004748

- Associated Service Request Etrack(s): 4004747

- Description:
  One drive of a VM was not displayed when browsing for individual files.

Etrack Incident: 4008054

- Associated Primary Etrack: 4006514

- Associated Service Request Etrack(s): 4006513

- Description:
  An NetBackp Windows DLL file `log4net.dll` contained a vulnerability.

Etrack Incident: 4008688

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  An OpenStack core dump was caused when an instance to be backed up was in a BUILD state.

Etrack Incident: 4008731

- Associated Primary Etrack: 4008600

- Associated Service Request Etrack(s): 4008599

- Description:
  Some jobs failed to backup to MSDP with status code 84 after a NetBackup appliance upgrade from 3.0 to 3.1.2.

Etrack Incident: 4008750

- Associated Primary Etrack: 4007682

- Associated Service Request Etrack(s): 4007681

- Description:

  `filedel` did not work properly for the MD5 algorithm.

Etrack Incident: 4009184

- Associated Primary Etrack: 3994887

- Associated Service Request Etrack(s): 3994886

- Description:

  Bpexpdate reported a status 0 when it fails to expire an image.

Etrack Incident: 4009482

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:

  Catalog backup exited with partial success when there were non-existing users in the exported DR package.

Etrack Incident: 4010215

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:

  NetBackup was unable to assign certificates for clients with hostnames longer than 64 characters.

Etrack Incident: 4010759

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:

  Guava version in NBWSS differed from the one being used in web services.

Etrack Incident: 4010881

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:

  OData server core version was not the latest version.

Etrack Incident: 4011566

- Associated Primary Etrack: 4010951

- Associated Service Request Etrack(s): 4010950

- Description:
  A CloudPoint upgrade or new installation failed if IPv6 is disable on the
  CloudPoint server.

Etrack Incident: 4011750

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  `nbcert` and `nbwebservice` logs contained irrelevant information about ECA
  even when ECA was not configured. Also, secure inbound connections appeared
  in the Peer Host Validation report.

Etrack Incident: 4011755

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  Secure inbound connections appeared in the Peer Host Validation report.

Etrack Incident: 4012234

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  niversal Share BYO configuration failed if IPv6 was disabled.

Etrack Incident: 4014231

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  When the operating system restarted on a media server, `spoold` would hang
  because it started before `spad` had not started.

Etrack Incident: 4014342

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  APTARE reports displayed the Provider Generated ID instead of a user-friendly
  display name.

Etrack Incident: 4015147

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  Many problems detected during SLP processing were logged only in the
  `nbstserv` log.

Etrack Incident: 4016079

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  The inactivate SLP message was logged in the log file but did not appear in
  Problems report.

Etrack Incident: 4017970

- Associated Primary Etrack: 4017322

- Associated Service Request Etrack(s): 4017321

- Description:
  A Spring vulnerability was reported on a media server.

Etrack Incident: 4017985

- Associated Primary Etrack: 4017322

- Associated Service Request Etrack(s): 4017321

- Description:
  A Spring vulnerability was reported on a media server.

Etrack Incident: 4018080

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  After a WORM backup with checkpoints enabled, a retry for an HDR image did
  not have WORM attributes enabled.

Etrack Incident: 4018375

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:

The NetBackup web UI could not create a disk pool with more than one volume because the web UI did not support multiple disk volumes for the specified storage category.

Etrack Incident: 4018382

- Associated Primary Etrack: 4017387

- Associated Service Request Etrack(s): 4017386

- Description:
  Appliance media server upgrades failed if the `vm.conf` file was present.

Etrack Incident: 4019071

- Associated Primary Etrack: N/A

- Associated Service Request Etrack(s): N/A

- Description:
  Upgrades to NetBackup 8.3 reverted custom tuning parameters to default values in `OpsCenterServerService.xml` and `OpsCenterGUIService.xml` files.

About SORT for NetBackup Users

This appendix includes the following topics:

- About Veritas Services and Operations Readiness Tools

- Recommended SORT procedures for new installations

- Recommended SORT procedures for upgrades

About Veritas Services and Operations Readiness Tools

Veritas Services and Operations Readiness Tools (SORT) is a robust set of standalone and web-based tools that support Veritas enterprise products. For NetBackup, SORT provides the ability to collect, analyze, and report on host configurations across UNIX/Linux or Windows environments. This data is invaluable when you want to assess if your systems are ready for an initial NetBackup installation or for an upgrade.

Access SORT from the following webpage:

https://sort.veritas.com/netbackup

Once you get to the SORT page, more information is available as follows:

- **Installation and Upgrade Checklist**
  Use this tool to create a checklist to see if your system is ready for a NetBackup installation or an upgrade. This report contains all the software and the hardware compatibility information specific to the information provided. The report also includes product installation or upgrade instructions, as well as links to other references.

- **Hot fix and EEB Release Auditor**

   Use this tool to find out whether a release that you plan to install contains the hot fixes that you need.

- **Custom Reports**

   Use this tool to get recommendations for your system and Veritas enterprise products.

- **NetBackup Future Platform and Feature Plans**

   Use this tool to get information about what items Veritas intends to replace with newer and improved functionality. The tool also provides insight about what items Veritas intends to discontinue without replacement. Some of these items include certain NetBackup features, functionality, 3rd-party product integration, Veritas product integration, applications, databases, and the OS platforms.

Help for the SORT tools is available. Click **Help** in the upper right corner of the SORT home page. You have the option to:

- Page through the contents of the help similar to a book

- Look for topics in the index

- Search the help with the search option

Recommended SORT procedures for new installations

Veritas recommends new NetBackup users perform the three procedures that are listed for an initial introduction to SORT. The tool has many other features and functions, but these serve as a good introduction to SORT. In addition, the procedures provide a helpful base of knowledge for other SORT functionality.

Table A-1

Procedure	Details
Create a Veritas Account on the SORT webpage	See "To create a Veritas Account on the SORT page" on page 50.
Create generic installation reports	See "To create a generic installation checklist" on page 50.
Create system-specific installation reports	See "To create a system-specific installation report for Windows" on page 51. See "To create a system-specific installation report for UNIX or Linux" on page 52.

To create a Veritas Account on the SORT page

1 In your web browser, navigate to:

https://sort.veritas.com/netbackup

2 In the upper right corner, click **Login**, then click **Register now**.

3 Enter the requested login and contact information:

Email address	Enter and verify your email address
Password	Enter and verify your password
First name	Enter your first name
Last name	Enter your last name
Company name	Enter your company name
Country	Enter your country
Preferred language	Select your preferred language
CAPTCHA text	Enter the displayed CAPTCHA text. If necessary, refresh the image.

4 Click **Submit**.

5 When you receive your login information, you can log into SORT and begin uploading your customized information.

To create a generic installation checklist

1 In your web browser, navigate to:

https://sort.veritas.com/netbackup

2 Find and select the **Installation and Upgrade Checklist** widget.

3   Specify the requested information

Product	Select the appropriate product from the drop-down menu. For NetBackup select **NetBackup Enterprise Server** or **NetBackup Server**.
Product version you are installing or upgraded to	Select the correct version of NetBackup. The most current version is always shown at the top of the list.
Platform	Select the operating system that corresponds to the checklist you want generated.
Processor	Select the correct processor type for your checklist.
Product version you are upgrading from (optional)	For new installations, do not make any selections. For upgrades, you can select the currently installed version of NetBackup.

4   Click **Generate Checklist**.

5   A checklist corresponding to your choices is created. You can modify your selections from this screen, and click **Generate Checklist** to create a new checklist.

You can save the resulting information as a PDF. Numerous options are available for NetBackup and many of them are covered in the generated checklist. Please spend time reviewing each section to determine if it applies to your environment.

To create a system-specific installation report for Windows

1   Go to the SORT website:

https://sort.veritas.com/netbackup

2   In the **Installation and Upgrade** section, select **Installation and Upgrade custom reports by SORT data collectors**.

3   Select the **Data Collectors** tab

4   Select the radio button for **Graphical user interface** and download the correct data collector for your platform.

The data collector is OS-specific. To collect information about Windows computers, you need the Windows data collector. To collect information about UNIX computers, you need the UNIX data collector.

5   Launch the data collector after it finishes downloading.

6 On the **Welcome** screen, select **NetBackup** from the product family section and click **Next**.

7 On the **System Selection** screen, add all computers you want analyzed. Click **Browse** to see a list of computers you can add to the analysis. Veritas recommends starting the tool with an administrator or a root account.

8 When all systems are selected, review the **System names** section and click **Next**.

9 In the **Validation Options** screen, under **Validation options**, select the version to which you plan to upgrade.

10 Click **Next** to continue

11 The utility performs the requested checks and displays the results. You can upload the report to My SORT, print the results, or save them. Veritas recommends that you upload the results to the My SORT website for ease of centralized analysis. Click **Upload** and enter your My SORT login information to upload the data to My SORT.

12 When you are finished, click **Finish** to close the utility.

To create a system-specific installation report for UNIX or Linux

1 Go to the SORT website:

https://sort.veritas.com/netbackup

2 In the **Installation and Upgrade** section, select **Installation and Upgrade custom reports by SORT data collectors**.

3 Select the **Data Collector** tab.

4 Download the appropriate data collector for your platform.

The data collector is OS-specific. To collect information about Windows computers, you need the Windows data collector. To collect information about UNIX computers, you need the UNIX data collector.

5 Change to directory that contains downloaded utility.

6 Run `./sortdc`

The utility performs checks to confirm the latest version of the utility is installed. In addition, the utility checks to see it has the latest data. The utility then lists the location of the log file for this session.

7 If requested, press **Enter** to continue.

8 Select the **NetBackup Family** at the **Main Menu**.

9 Select **Installation/Upgrade report** when prompted **What task do you want to accomplish?**

You can select multiple options by separating your response with commas.

10 Specify the system or systems you want included in the report.

If you previously ran a report on the specified system, you may be prompted to run the report again. Select **Yes** to re-run the report.

The utility again lists the location of the log files for the session.

The progress of the utility is displayed to the screen.

11 Specify **NetBackup** when prompted for the product you want installation or upgrade reports.

12 Enter the number that corresponds to the version of NetBackup you want to install.

The utility again lists the location of the log files for the session.

The progress of the utility is displayed to the screen.

13 The utility prompts you to upload the report to the SORT website if you want to review the report online. The online report provides more detailed information than the text-based on-system report.

14 When your tasks are finished, you can exit the utility. You have the option to provide feedback on the tool, which Veritas uses to make improvements to the tool.

Recommended SORT procedures for upgrades

Veritas recommends current NetBackup users perform the three procedures that are listed for an initial introduction to SORT. The tool has many other features and functions, but these serve as a good introduction to SORT for users who already use NetBackup. In addition, the procedures provide a helpful base of knowledge for other SORT functionality.

Table A-2

Procedure	Details
Create a Veritas Account on the SORT webpage	See "To create a Veritas Account on the SORT page" on page 50.

Table A-2   *(continued)*

Procedure	Details
Create a system-specific upgrade report	See "To create a system-specific installation report for Windows" on page 51.
	See "To create a system-specific installation report for UNIX or Linux" on page 52.
Review the future platform and feature plans. Review the hot fix and emergency engineering binary release auditor information.	See "To review future platform changes and feature plans" on page 54. See "To review hot fix and emergency engineering binary information" on page 54.

To review future platform changes and feature plans

1   In your web browser, navigate to:

https://sort.veritas.com/netbackup

2   Find and select the **NetBackup Future Platform and Feature Plans** widget.

3   Select **Display Information**.

4   Review the information provided

5   Optional - sign in to create notification - Click **Sign in and create notification**.

To review hot fix and emergency engineering binary information

1   In your web browser, navigate to:

https://sort.veritas.com/netbackup

2   Find and select the **NetBackup Hot Fix and EEB Release Auditor** widget.

3   Enter the hot fix or emergency engineering binary (EEB) information.

4   Click **Search**.

5   The new page shows a table with the following columns:

Hot fix of EEB Identifier	Shows the hot fix or EEB number that was entered on the previous screen.
Description	Displays a description of the problem that is associated with the hot fix or EEB.
Resolved in Versions	Provides the version of NetBackup where this issue is resolved.