



# What's New

## New Feature Information for Syncsort Data Protection v 4.0 as used in NetApp Syncsort Integrated Backup

Syncsort Data Protection is the management software component of the NetApp Syncsort Integrated Backup solution. The following features are available in the initial 4.0 GA release, unless otherwise noted.

### Syncsort Data Protection v 4.0 Release

Feature	Description	Benefit
<b>Virtualization Enhancements</b>		
Agentless VMware backup	VMware virtual machines can be protected without the need to install an Agent in the guest OS.	<b>Superior Ease of Use, Reduced Management</b> Through use of the VMware VADP protocol, users can now easily and reliably protect virtual machines without the need to install an Agent. This simplifies administration and reduces management overhead.
Agentless Backup Recovery Options	Multiple recovery options are available from Agentless backups.	<b>Best of Breed Recovery Options</b> Users have a wide range of recovery options available. These include the same Instant Virtualization and Full Virtualization features available with NSB agent-based backups. In addition, "Instant VMDK" allows rapid mapping of VMDK images back to the same VM or an alternate VM. VMDKs can also be mapped to physical servers to share data across physical/virtual boundaries.
Automatic protection of VMs	New VMs created in vSphere can automatically be included in backup protection.	<b>Helps Ensure Backup Coverage</b> By automatically including new VMs into backup schedules, users can ensure that VMs aren't accidentally left outside of data protection plans. Users have the option of configuring backups to include new VMs or not based on their vSphere groupings.
Expanded operating system coverage	Agentless backup works with any operating system supported by VMware.	<b>Increased Scope of Coverage</b> Because Agentless backup isn't dependent on specific Agents for each operating system, it works with any operating system supported by VMware. This increases the number of OS's that can be supported by NSB, and also eliminates the need for LVM on Linux clients.

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<b>Virtualization Enhancements</b>		
Multi-threaded proxy servers for backup	Agentless backups are run through load-balanced proxy servers which can support multiple simultaneous backups.	<p><b>Scalable and Efficient Performance</b></p> <p>Proxy servers used to process Agentless backups are multi-threaded to support many simultaneous backups. This allows the environment to scale while still remaining efficient in terms of the number of proxy servers to manage. Backup processing can also automatically load balance across however many proxies are defined in the environment. Proxy servers can be physical systems, virtual machines, or both.</p>
ESX Cluster support	Extends NSB protection to clustered ESX servers.	<p><b>Extends VMware Support</b></p> <p>By supporting clustered ESX servers, NSB now delivers protection to highly available VMware environments. This extends the reach of NSB protection.</p>
vSphere 5.0 support	NSB virtualization features now support vSphere 5.0.	<p><b>Extends VMware Support</b></p> <p>All NSB virtualization feature work with vSphere 5.0, allowing NSB customers to make use of the latest enhancements in VMware.</p>
<b>Management and Usability Enhancements</b>		
New Graphical User Interface	A simplified graphical user interface (GUI).	<p><b>Simplifies Management, Reduces Learning Time</b></p> <p>A newly designed GUI features a more intuitive design while removing legacy features no longer needed. The result is an easier experience for end users with reduced learning time. This release also is labeled as NetApp Syncsort Integrated Backup, removing all BEX references.</p>
Object deletion Wizards	Wizard-based tools to delete VMs and mapped drives.	<p><b>Simplifies Management</b></p> <p>Two new Wizards simplify clean-up of resources created in NSB.</p> <ul style="list-style-type: none"> <li>• <i>Delete VM Wizard</i> easily removes virtual machines and associated VMDKs and LUNs created by either Instant or Full Virtualization.</li> <li>• <i>Unmap Wizard</i> removes LUN mappings created by VMDK Instant Access.</li> </ul>
Rerun failed backup enhancements	Individual failed backups within a multi-backup job can be directly re-started.	<p><b>Simplifies Management and Troubleshooting</b></p> <p>Interface enhancements make it easy to re-start individual failed backups that are part of a multi-backup job definition. This eliminates the manual steps required to determine the failed systems and makes backup management easier and faster, thereby reducing management time. These enhancements also make it easier to put multiple clients into a single backup job, thereby further decreasing management time.</p>

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<b>Management and Usability Enhancements</b>		
Automatic secondary storage deletion	Cleans-up storage that is no longer needed due to backup changes.	<p><b>Simplifies Management, Improves Space Utilization</b></p> <p>When backup jobs are deleted or destinations changed, this enhancement will automatically clean-up the no longer used target space (qtrees) on the NetApp storage. The clean-up takes place as part of the Catalog Condense process.</p>
<b>Remote Backup/Cloud Enhancements</b>		
Enhanced resiliency	Remote site backups (cloud backups) are more resilient to inconsistent network connections.	<p><b>Enhances Reliability</b></p> <p>Enhancements to NSB backup retry logic have made remote backups more resilient to inconsistent network connections. This greatly reduces the need to re-send a full set of backup data during remote backups when the network connecting the client to the NetApp FAS has inconsistent service. Time out and retry values are configurable and can be raised from default values to deal with especially poor connections.</p>
<b>Efficiency Enhancements</b>		
Enhanced deduplication	Increased deduplication performance to maximize storage savings	<p><b>Increased Solution ROI</b></p> <p>NSB makes better use of NetApp Deduplication, thereby further decreasing the total amount of disk storage capacity needed to hold backup data.</p>
<b>Security Enhancements</b>		
Active Directory/ LDAP support	NSB user accounts can authenticate using Active Directory or LDAP.	<p><b>Improves Security, Manageability</b></p> <p>Customers that require all users to authenticate within a directory schema can now make use of Active Directory or LDAP to authenticate NSB administrators.</p>
Tape encryption support for AIX 7.1 with DB2 v 9.7	Support for tape encryption extended to AIX 7.1 with DB2 v 9.7.	<p><b>Improves Security</b></p> <p>Allows users to encrypt data on tapes when protecting DB2 in an AIX environment.</p>

Feature	Description	Benefit
<b>New OS and Application Support</b>		
SUSE Linux Enterprise Server (SLES) 10 SP4	Data protection support is added for SLES 10 SP4 clients. Includes file and block backup	<b>Extends OS Support</b> Allows users to extend all NSB file and block data protection and recovery features to SLES 10 SP4 clients.
Red Hat Enterprise Linux (RHEL) 5.7	Data protection support is added for RHEL 5.7 clients. Includes file and block backup with added support for the EXT4 file system.	<b>Extends OS Support</b> Allows users to extend all NSB file and block data protection and recovery features to RHEL 5.7 clients.
AIX 7.1 with DB2 v 9.7	Data protection support is added for AIX 7.1 as well as DB2 v 9.7. File level backup only.	<b>Extends OS Support</b> Allows users to extend NSB file level data protection and recovery features to AIX 7.1 clients as well as providing application support for DB2 v 9.7.

## About NetApp

NetApp creates innovative storage and data management solutions that deliver outstanding cost efficiency and accelerate business breakthroughs. NetApp's passion for simplicity, innovation, and customer success helps companies around the world go further, faster. To learn more about NetApp please visit [netapp.com](http://netapp.com).



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## About Syncsort

Syncsort is a global software company that helps the world's most successful organizations rethink the economics of data. Syncsort provides extreme data performance and rapid time to value through easy to use data integration and data protection solutions. With over 15,000 deployments, Syncsort has transformed decision making and delivered more profitable results to thousands of customers worldwide.



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