



Release Notes: NovaBACKUP 19.1

NovaBACKUP 19.1 (February 2018)

Backup For The Rest of Us

What's new in NovaBACKUP 19.1 ?

- Added direct to Microsoft VHD (Virtual Hard Disk) feature to scheduled and on-demand image backup.
- Added support for SQL Server 2017 in the NovaBACKUP backup client, xSP Storage Server, xSP Application Updater, and xSP Remote Manager.
- Updated Image Backup Boot Disk creation to use the latest Windows 10 ADK, which works on all currently supported Operating Systems. This ADK has support for newer hardware drivers than previous.
- The Advanced Boot Disk function now reads the path of the installed Microsoft ADK or AIK directly via the local machine's registry for Advanced Boot Disk creation. If the Windows ADK or AIK is installed already and detected it will not prompt you to browse to that path when creating an Advanced Boot Disk.
- Changed the xSP Storage Server so that newer clients can talk to older xSP Storage Servers.
- Updated CMon with a New HTML User Interface and other improvements detailed in the section below.
- Updated Granular Restore application with fixes detailed in the Fixed Issues / Bugs section.
- Removed FTP code and support in NovaBACKUP backup client.
- Removed Windows XP and Windows Server 2003 code and support in NovaBACKUP backup client.

What's new in CMon 19.1 ?

- Added the ability to monitor progress of ongoing backup on specific agents on demand.
- Added high level dashboard statistics.
- Added searching and filtering in the Agents and Groups screen.
- Added the following fields to the Agents and Groups view: backed up data for last backup, files backed up for last backup, how long last backup took.
- Added a connected column to the Agents and Groups view.
- Added a setting for Time/Date format in the settings of the CMon.
- Added a setting for Timezone that dates and times should be displayed in.



Fixed Issues / Bugs

- Fixed issue with file backup unable to backup encrypted files.
- Fixed issue with some Windows 10 applications from the Microsoft Store cannot be backed up, the error was client file is busy, retry.
- Fixed issue where Image Backup Fails to NAS with DuplicateTokenEx Error.
- Fixed issue with access token errors in scheduled image backup jobs.
- Fixed issue with VMware Plugin Restore if the backup was encrypted then performing the VMware Import of encrypted backup fails.
- Fixed issue where unable to backup System State when some Windows applications are installed.
- Fixed issue with not able to span tape when the backup job is scheduled.
- Fixed issue that caused many error events that were being created in the Windows event log if an attempt to clear the archive bit on files fails. These types of errors will no longer be logged.
- Fixed issues when trying to select a large number of files for restore.
- Fixed chaining problem that caused some files or folders to become corrupted when mounting an incremental image backup.
- Fixed system crash when mounting disk images larger than 2TB on Windows 8.x, Windows 10, Windows Server 2012, Windows Server 2012 R2, and Windows Server 2016.
- Fixed directly generated VHD files not the same as those converted from native format (converted files were bootable, while directly generates files were not).
- Fixed Microsoft SQL Backup fails if System State Temp files cannot be deleted due to a long file path.
- Fixed issues with Granular Restore including resolving problems with search, connection to 2013-2016 Exchange Server with impersonation rights, improved restoring items' properties, resolved user interface problems, resolved problems with recovering attachments, resolved installer problems, improved work with PST files.
- Fixed issue where the un-installer does not remove DR Drivers when you un-install NovaBACKUP.
- Fixed issue with xSP Storage Server with NFS fails with error "A low disk space condition (<100 MB) was detected on volume", even though disk space was not an issue.
- Fixed CMon may not automatically purge log entries in the database older than the specified number of days in the configuration.
- Removed check in xSP to upgrade storage to FastBIT 3.
- Removed requirement in xSP Storage Server installation for Microsoft .NET 3.51.
- Removed requirement in xSP Storage Server installation to replace SQL Server 2008 R2 Express with SQL

Known Issues

- Creating boot CDs using the "Simple" mode requires the presence of Windows installation files on the system. If these files are missing, use the "Advanced" mode to create a boot CD.



Installation Notes

NovaBACKUP PC

System Requirements:

- 1.3 GHz processor minimum
- 1 GB of free RAM minimum
- 3 GB free hard drive available space on OS drive (Full installation size is approximately 300MB)
- Internet Explorer 11 or higher
- TCP/IP network

*Supported Operating Systems (64 and 32 Bit for all versions)**

- Windows 10
- Windows 8.1
- Windows 8
- Windows 7 SP1

** Image Backups do not support Tablet-based devices.*

NovaBACKUP Server

System Requirements:

- 1.3 GHz dual-core processor minimum
- 1 GB of free RAM minimum
- 3 GB free hard drive available space on OS drive (Full installation size is approximately 300MB)
- Internet Explorer 11 or higher
- TCP/IP network

*Supported Operating Systems (64 and 32 Bit for all versions)**

- Windows 10
- Windows 8.1
- Windows 8
- Windows 7 SP1
- Windows Server 2016
- Windows Server 2012 R2
- Windows Server 2012
- Windows Server 2008 R2 SP1
- Windows Server 2008 SP2
- Windows Small Business Server 2011
- Windows Small Business Server 2008 SP2

** Image Backups do not support Tablet-based devices.*



NovaBACKUP Business Essentials

System Requirements:

- 1.3 GHz processor minimum
- 2 GB of free RAM minimum
- 3 GB free hard drive available space on OS drive (Full installation size is approximately 300MB)
- Internet Explorer 11 or higher
- TCP/IP network

*Supported Operating Systems (64 and 32 Bit for all versions)**

- Windows 10
- Windows 8.1
- Windows 8
- Windows 7 SP1
- Windows Server 2016
- Windows Server 2012 R2
- Windows Server 2012
- Windows Server 2008 R2 SP1
- Windows Server 2008 SP2
- Windows Small Business Server 2011
- Windows Small Business Server 2008 SP2

** Image Backups do not support Tablet-based devices.*

Supported Applications (Business Essentials):

Microsoft SQL Server

- Microsoft SQL Server 2008 SP4
- Microsoft SQL Server 2008 R2 SP3
- Microsoft SQL Server 2012 SP3
- Microsoft SQL Server 2014 SP2
- Microsoft SQL Server 2016 SP1
- Microsoft SQL Server 2017

Microsoft Exchange Server

- Microsoft Exchange Server 2007 SP3
- Microsoft Exchange Server 2010 SP3
- Microsoft Exchange Server 2013 SP1
- Microsoft Exchange Server 2016



Microsoft Hyper-V Server

- Microsoft Hyper-V Server 2008 R2
- Microsoft Hyper-V Server 2012
- Microsoft Hyper-V Server 2012 R2
- Microsoft Hyper-V Server 2016²

VMware (with vStorage API)

- VMware ESX(i) 5.x
- VMware ESX(i) 6.x
- VMware vSphere 5.x
- VMware vSphere 6.x

Backing up Virtual Machines

Microsoft Hyper-V

- Backing up Microsoft Hyper-V is supported only on Microsoft Server operating systems (not Windows 8 / 8.1). In order to back up Microsoft Hyper-V virtual machines, you will need to have NovaBACKUP Business Essentials installed on the Hyper-V Host Operating System.

VMware ESXi / vSphere

- You will need NovaBACKUP installed on a machine (Physical or Virtual) with a supported operating system and your VMware vSphere installation requires the vStorage API. The machine that NovaBACKUP is installed on needs to have network connectivity to your VMware vSphere server. NovaBACKUP may be installed on a Virtual Machine but will not be able to directly back up its own Virtual Machine.

NovaBACKUP Virtual Dashboard Requirements

NovaBACKUP Virtual Dashboard, Backing up and Restoring Virtual Machines with the ability to restore individual files, and Replication have separate system requirements than other parts of the product.

Supported Hypervisors (Virtual Dashboard):

- Windows Hyper-V Server 2012
- Windows Hyper-V Server 2012 R2
- Windows Hyper-V Server 2016
- VMware ESX(i) 5.x (w/vStorage API)
- VMware ESX(i) 6.x (w/vStorage API)
- VMware vSphere 5.x (w/vStorage API)
- VMware vSphere 6.x (w/vStorage API)



NovaStor Granular Restore Supported Applications

Granular restore of Microsoft Exchange (single mailbox) and Microsoft SQL is handled using the NovaStor Granular Restore application, included with the NovaBACKUP Business Essentials solution. Below are basic system requirements but you can find more by checking our website:

[For more information, visit our support page.](#)

Microsoft Exchange mail store database versions

- 2007 RTM, SP1, SP2, SP3
- 2010 RTM, SP1, SP2, SP3
- 2013 RTM, SP1
- 2016 RTM, CU1, CU2, CU3, CU4, CU5, CU6

Microsoft Outlook (PST/OST) version files

- 2007
- 2010
- 2013
- 2016
- Note: OST file of 2013, 2016 version is not supported.

Microsoft SQL Server database (MDF/BAK) versions

- 2008
- 2008 R2
- 2012
- 2014
- 2016



Supported Backup Devices and Media:

Local:

- SCSI, IDE (Parallel-ATA), SATA, and SAS Hard Drives
- External Hard Drives – USB 1.1 / 2.0 / 3.0, FireWire
 - Format external drives > 2TB with [GUID Partitions \(GPT\) instead of MBR](#)
 - Microsoft ReFS file systems are unsupported
- Network Storage (SAN or NAS / Network Share with CIFS or SMB Support)
- Single Tape Drives
- Flash Storage (USB)

Offsite:

- NovaStor Service Provider
- Amazon S3

Image Disaster Recovery:

- Bootable CD/DVD Recorder and CD/DVD Media is required (Or USB)
- Local / Removable Hard Drives
- NAS Devices

NovaBACKUP Central Monitoring Console (CMon) Server Requirements

- Intel Dual Core CPU or better
- 4 GB of RAM minimum
- 3 GB free hard drive available space on OS drive
- Internet Explorer 9 or higher
- TCP/IP network
- .NET 4
- Microsoft SQL Server 2008 R2 or newer (Optional)
- IIS 7.5 or higher with IIS 6 Management Compatibility (Optional)

Supported Operating Systems

- Windows Server 2008 SP2
- Windows Server 2008 R2 SP1
- Windows Server 2012
- Windows Server 2012 R2
- Windows Server 2016



NovaBACKUP Central Monitoring Console (CMon) Client

Client-Side Supported HTML5 Web Browsers (Desktop/Tablet/Mobile Phone)

- Microsoft Internet Explorer 9 or higher
- Microsoft Edge 25.10586 or higher
- Google Chrome 51 or higher
- Mozilla Firefox 47 or higher
- Apple Safari 9.1 or higher
- Apple Mobile Safari 6.0 or higher
- Android Browser 5.0 or higher
- Blackberry 10 browser or higher
- Opera Mobile 10 or higher
- Amazon Silk

Client-Side Browser Requirements

- JavaScript must be enabled
- Cookies must be enabled
- Local storage must be enabled with a minimum size of 10KB
- Internet Explorer specific requirements:
 - Active scripting must be enabled
 - Enhanced Security must be disabled
 - Protected Mode must be disabled
 - Compatibility mode must be disabled
 - Script debugging disabled
 - File downloads must be enabled for downloading reports

Installation Notes:

All installations require an Administrator Account and cannot be installed under a Limited User Account.

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