



## Release Notes: NovaBACKUP 19.2

NovaBACKUP 19.2 (August 2018)

Backup For The Rest of Us

### What's new in NovaBACKUP 19.2 ?

#### General features and fixes:

- Displaying the number of skipped files and the duration of the backup in the job log summary tab.
- Fixed issue where the log viewer may crash when viewing some logs.
- Fixed issues when backing up from OneDrive and Open File Backup is enabled.
- Fixed issues when Advanced verify tries to verify directories.
- Fixed job status counters and estimates to be more accurate than it was before.

#### Image backup related features and fixes:

- Completely new boot media that fixes a large number of issues that have been reported.
- New feature to create an image backup from within the boot media.
- New feature to create a clone of a disk from within the boot media.
- New advanced boot media will utilize the latest ADK.
- Optimized determination of used sectors on image backup.
- Updating storage only when changes occur on image backup.
- Fixed issues where simple boot media was not an option on some systems where it should have been.
- Fixed issues with Boot CD due to automatic repair, after system recovery, or duplication.
- Fixed issues where restore aborts when GPT layout is created.
- Fixed issues where the installation is prevented on Windows Server 2008.
- Fixed issues where the creation of the sector-based image was not terminated.
- Fixed issues where the disk mapping is incorrect on HPE Logical Volume Manager.
- Fixed issues with GPT disks without an MSR partition in Logical Volume Manager.
- Fixed a bug whereby the user couldn't exit from Image Backup if an error occurred during boot media creation.

#### CMon related features and fixes:

- Displaying the number of skipped files and the duration of the backup in the job log summary tab.
- Fixed issue where the log viewer may crash when viewing some logs.
- Fixed issues when backing up from OneDrive and Open File Backup is enabled.
- Fixed issues when Advanced verify tries to verify directories.
- Fixed job status counters and estimates to be more accurate than it was before.

#### xSP related features and fixes:

- Improved performance when backing up large files with xSP. Seeing upwards of a 20% backup speed increase on xSP
- Updated default backup client exclusion list.
- Fixed handling of file name collision in backup server
- Added support for selecting reparse points, OneDrive, and de-duplicated files.



#### xSP related features and fixes:

- Fixed issue when changing temp folder and existing xSP device properties
- Fixed issue when backing up to an xSP device related to VSS snapshots.
- Fixed issue when importing staged backups
- Fixed issues when deleting files from the xSP server
- Fixed issue where the work directory isn't persisted during an upgrade of the backup/storage server.
- Fixed issues which may cause the backup client service to fail when backing up to xSP.
- Fixed issues which may cause dropped network connections when backing up to xSP.
- Fixed issues when trying to back up to an xSP device on certain files.

### What's new in Granular Restore 20.4.3.57013 ?

- Support added for SQL Server version 2017.
- Support added for Exchange Server version 2016 CU7, CU8, CU9, and CU10.
- Support added for Exchange Server version 2013 CU20.
- Improved restoring contact's items.
- Improved restoring into live Exchange Server.
- Improved restoring items from database Exchange Server version 2016 CU7.
- Resolved problems with search.
- Improved restoring items' properties.
- Resolved problems with restoring items to live Exchange Server.
- Resolved problems with displaying data.
- Resolved problems with counting of items.

### Known Issues

- Creating Image Boot Media 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 the image boot media.
- Mounting Image Backups greater than 2TB crashes the system (BSOD) when running on Windows 7, Windows Server 2008, or Windows Server 2008 R2.

### Third Party Components

Component	File Version
Ext2Fsd	0.53
VMware Virtual Storage Volume Driver (32-bit)	4.0.1.79
VMware Virtual Storage Volume Driver (64-bit)	6.0.0.298
vmware.exe	9.5.0.2051



## 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 2016<sup>2</sup>

### **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, CU20
- 2016 RTM, CU1, CU2, CU3, CU4, CU5, CU6, CU7, CU8, CU9, CU10

### 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
- 2017



## 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 flash drive 32GB or smaller)
- 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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