

## Macrium Reflect v7.2.4433

Date 20th August 2019

### What's New v7.2.4433 - 20th August 2019

- **Microsoft Exchange 2019**  
Support has been added for Microsoft Exchange 2019 for backup, restore and gra
- **Update to TLS 1.2**  
The email option in Macrium Reflect has been updated to include TLS 1.2 support.
- **Rescue Media Files**  
The driver folders for WinPE/WinRE have been expanded to support multiple archit

### Bug Fixes

- **Changed Block Tracker**  
The CBT communications protocol has been improved. **The first Incremental aft than normal.**
- **Microsoft Exchange Mailbox Restore**  
During the same restore session if the same file was selected twice a mount error
- **Microsoft Exchange Backup to GUID path**  
The message "Not enough memory resources are available to process this commar backing up exchange to a volume guid path rather than a drive letter. This has be
- **USB host driver copy**  
USB devices could fail to be recognized if Windows PE/RE if the Rescue Media Build drivers. This is now an optional setting in the RMBuilder 'Advanced' dialog and the fresh install is set to disabled. Please enable this option if necessary if you are ha rescue media.
- **Rescue Media BitLocker unlock**  
The MS utility 'manage-bde.exe' could fail to run correctly in the rescue media. **If issue affects you then please re-create your rescue media after updating.**

VSS logs could be purged by date incorrectly. This has been resolved.

- **Technicians USB**  
The technicians license could be incorrectly copied to USB and ISO technicians m **If this issue affects you then please re-create your rescue media after upd**
- **Microsoft SQL Restore**  
Server Plus could crash when attempting to restore the SQL tail log. This has bee
- **viBoot Backup**  
When creating a backup from within viBoot a password was prompted for even if password protected. This has been resolved.

### What's New v7.2.4325 - 10th June 2019

- **Macrium Technicians License**  
We've improved the Technicians license product by adding the option to create a and optical media. This offers the full functionality of the Technicians USB stick b with Hyper-V VMs by attaching the ISO file to a DVD virtual device.
- **Clone and Restore Confirmation**  
We've added an additional confirmation check box when overwriting a Clone or Re Reflect users unfamiliar with the result of a Restore/Clone operation the opportuni overwrite operation.
- **ReDeploy**  
When attempting to ReDeploy Windows 7 using PE/RE 10 or Windows 10 using PE/ IDE/ACHI services and drivers from being copied from the rescue media. This has

- **Rescue media USB drivers**  
Some customers have reported non-functioning USB devices which was corrected in PE. Rescue media creation will now copy any USB OEM drivers from the host OS is detected in the PE/RE base OS.
- **Changed Block Tracker**
  - The CBT tracking file format has been optimized and improved for efficien **require a reboot after installing and the first Incremental after rebo normal.**
  - CBT and Reflect now ignore the PortableBaseLayer virtual disk used by the 10 build 1903.

- **Uninstall tidy up**  
Unused files in folder C:\windows\installer are now removed when uninstalling
- **File and Folder Search**  
We've added path matching to the search criteria when searching File And Folder Previously this was restricted to file names only.

### Bug Fixes

- **Image mounting**  
In rare cases images could refuse to mount if insufficient access privileges were a 'C:\Windows\Temp' folder. This has been resolved.
- **Incorrect information in the Disk Details UI**  
backup tab. This has been resolved.
- **Rescue Media Builder**
  - After uninstalling Reflect, the windows module 'Wimmount.sys' could be inc other applications unable to mount VHD files. This has been resolved
  - Windows RE could fail to build on Server 2016. This has been resolved
- **BitLocker**  
BitLocker 'live' restores may have reverted to BitLocker 'removal' restores after th resolved. **If this issue affects you then please re-create your rescue media a**
- **Changed Block Tracker**  
CBT could be disabled for a volume after a reboot forced by running 'chkdsk /f. TI

### Server Plus Only - What's New v7.2.4230 - 22nd April 2019

### Bug Fixes

- **Image Guardian**
  - MIG could block the creation of SQL backups. This has been resolved.

#### What's New v7.2.4228 - 21st April 2019

reduced the time taken for reflect to read the indexes back from the previous time. This is most noticeable when reading a large number of remote files.

#### Bug Fixes

- **Change Block Tracker**
  - Fixed an issue where a TRIM operation on a Registry hive would cause a data corruption if software was holding a lock on the Registry.
  - Fixed an issue where CBT could not be enabled on some volumes if the list of files spanned a 512 byte boundary.
- **Image Guardian**

cryptographic functions.

- MIG could block the creation of SQL backups. This has been resolved.

- **viBoot**  
Creating an Incremental image of an encrypted/password protected image would fail. This has been resolved.

#### What's New v7.2.4156 - 3rd April 2019

- **Large NTFS Cluster Sizes**  
Macrium Reflect now includes support for volumes formatted with the NTFS file-system with clusters larger than 64K.

#### Bug Fixes

- **Change Block Tracker**
  - On some system using Microsoft Storage Spaces the option to enable CBT was not available. This has been resolved and CBT fully supports Storage Spaces.
  - Performance Optimization. The frequency with which CBT flushes its internal cache has been reduced.
- **File and Folder Incorrect Progress Bar**  
Reflect Monitor would show a sliding progress Marquee instead of the actual backup progress. This has been resolved.

It was not always possible to switch Wi-Fi networks when more than one network was available. This has been resolved.

- **PEExplorer**  
The PEExplorer application in the rescue media now includes a file deletion confirmation dialog.
- **'psvolacc.sys' error when browsing Images in Windows PE/RE**  
An incorrect error could be displayed when browsing images if the 'Enable access to system files' option was selected in Windows PE/RE. This has been resolved.
- **License Key Edition Change**  
When changing the installed edition of Macrium Reflect the previous license key could be lost. This has been resolved.
- **BitLocker Removal Warning**  
When resizing a restored BitLocker unlocked image the BitLocker Removal warning would not be displayed.

- **Various**  
Various small bug fixes and changes to improve Macrium Reflect.

#### Bug Fixes v7.2.4063 - 18th February 2019

- **Macrium Changed Block Tracker (MRCBT)**  
CBT could fail to attach to volumes where the "System Volume Information" folder was not present. This has been resolved.
- **Macrium Virtual Image Boot (viBoot)**  
The viBoot backup functionality has been put back - viBoot can now take backup of virtual images.
- **Duplicate toast notification when restoring have been removed.**  
When running backups, the toast notifications will now always show the backup details.
- **PowerShell**  
PowerShell scripts running as scheduled tasks could hang after completion of a backup.  
**Note:** Existing scripts do not need to change.
- **Server Plus - Mailbox Restore**
  - Mailbox Restore will no longer incorrectly report failures when restoring to a mailbox.
  - If one message failed to restore then subsequent restores could cause a problem. This has been resolved.
  - In rare cases, Mailbox Restore on Exchange 2016 would fail to restore message properties. This has been resolved.

restore to all mailboxes. This has been resolved.

- PST file export for Exchange 2016 is now supported.

- **Server Plus - Exchange Backup**  
Exchange backups can now handle backups of Databases and System volumes with Exchange encrypted Incremental backups could incorrectly force a Full backup. This has been resolved.
- **Backup Logs**  
Where consolidation/Retention rules are run \*before\* the start of a backup, the time taken for retention and consolidation is not included in the backup log. File And Folder email settings now include warnings and are positioned in the same order as the backup log.
- **Various**

#### Bug Fixes v7.2.3957 - 21st December 2018

- **Macrium Changed Block Tracker (MRCBT)**  
Some customers have experienced a Windows system exception causing a BSOD with v7.2.3954. This has been resolved.

#### What's New v7.2.3954 - 17th December 2018

- **Compatibility with Windows 10 Insider Preview 1809 (18290/8)**  
Fixed a bug that caused a GSoD with the Windows Container Isolation File System (wcifs) bug that caused a GSoD with Windows 10 Insider Preview 1809 (18290/8).

#### Bug Fixes

- **Macrium Changed Block Tracker (MRCBT)**

The following issues have been resolved...  
The number of error events that CBT writes to the System event log has been fixed.  
On some systems, CBT could cause a BSOD if a third-party device driver split a read volume into multiple, smaller reads or writes.  
On some x86 systems, CBT could fail to read the NTFS transaction log due to a log resulted in a failed backup reporting a read error occurred due to insufficient system space. Various dates reported by CBT were displayed in Coordinated Universal Time (UTC).

- **Backup End Toast Notification**

The notification displayed when a scheduled backup completes now includes the backup name.

- **Rescue Media Builder ISO File**

If an alternative Windows 'temp' path was set with insufficient space for the ISO report an error and create an invalid file. This has been resolved.

- **Various**

Minor UI changes.

#### Bug Fixes v7.2.3906 - 29th November 2018

- **ISO File Creation Failure**

RMBuilder could fail to create ISO image files. This has been resolved.

- **Macrium Image Guardian (MIG)**

MIG could incorrectly display a blocking notification during consolidation when the backup was on a protected network share. This has been resolved.

- **Various**

Various bug fixes and changes to improve Macrium Reflect.

#### What's New v7.2.3897 - 26th November 2018

**Note: This patch will require a Windows reboot.**

We've added a check-box to re-enable legacy SMB 1.0 support in Windows RE and Windows PE. This is disabled by default for security reasons.

#### Bug Fixes

- **Backup Completion Email**

Backup completion emails could fail to send if the sender's email was specified using the format '<user@domain.com>'. This has been resolved.

- **Rescue Media Builder**

The following issues have been resolved...  
An application error could occur if Windows RE couldn't fit on CD media.  
Old ISO files were not being deleted before creating new CD/DVD rescue media.

PE 10 rescue media would incorrectly show PE 5.0 in the Reflect application title bar.  
SRT drivers were not being injected into the WIM when building rescue media.

- **One Drive update failure**

Macrium Service would lock OneDrive.exe and prevent Windows Update from updating. This has been resolved.

- **Macrium Image Guardian (MIG)**

The following issues have been resolved...  
MIG would fail to detect that a Robocopy operation was accessing a backup target configured to use the unique volume identifier to locate backup drives.  
MIG could cause some Anti-Virus software to hang when inserting USB flash drives.

- **Macrium Changed Block Tracker (MRCBT)**

The following issues have been resolved...  
CBT would incorrectly attach to devices flagged as having removable media.  
A BSOD could occur if a user-mode application attempted to read an offline NTFS volume.  
CBT could block formatting of some NTFS volumes, causing the format command to fail.

#### Bug Fixes v7.2.3858 - 12th November 2018

**Note: This patch will require a Windows reboot.**

- **Explorer Crash**

Some customers have experienced a Windows Explorer crash if displaying the 'Back' button while exploring folders containing Image files. This has been resolved.

Windows PE could incorrectly load Windows RE Wi-Fi drivers at start-up and stall. This has been resolved.

**If this issue affects you then please create fresh Windows PE rescue media.**

- **Rescue Media Builder**

RMBuilder.exe could crash if invalid/non-writable media was inserted when burning. This has been resolved.

- **Rescue Media Builder**

The Windows volume manager could cause a delay when a partition was created during media creation to fail. This has been resolved.

- **Backup Start Dialog**

The delay time selected when a schedule backup starts was not being honoured.

- **Backup Failure Emails**

Backup failure emails were not being sent if the backup failed. This has been resolved.

- **Windows PE 5.0**

Windows PE 5.0 rescue media would incorrectly show 'PE 4.0' in the application title bar. This has been resolved.

- **Windows XP System Tray Icon**

When running scheduled backups on Windows XP the Reflect Monitor system tray icon was not visible. This has been resolved.

- **MIG Notifications**

Macrium Image Guardian could show an incorrect blocking notification for ReflectBackup. This has been resolved.

- **Server Plus SQL backups**

Macrium Image Guardian could block Server Plus backups of SQL databases. This has been resolved.

- **ShadowProtect incompatibility with CBT**

Some customers have reported a Windows BSOD if StorageCraft ShadowProtect v11.0.0.10 was installed on a system with Macrium Reflect. This has been resolved.

#### Bug Fixes v7.2.3825 - 2nd November 2018

- **Extended Windows Shutdown Times**

Some customers have experienced extended Windows shutdown times and have reported that the removal of USB storage devices when the Macrium Changed Block Tracker (CBT) is running could cause a BSOD. This has been resolved.

**Note: This patch will require a reboot. The initial reboot will still be using the old CBT driver. The new CBT driver will be active after the second reboot.**

Scheduled backups on Windows XP/Vista/7 could complete with code 0xff. Tasks but error as the application was unloading. This has been resolved.

#### Initial Macrium Reflect v7.2 Public Release v7.2.3811 - 30th October 2018

- **Initial v7.2 Release**

Please see [this KB article](#) for more information on what's included.

#### Bug Fixes v7.1.3317 - 4th July 2018

- **Unable to restore to an uninitialized disk**

Restoring to an uninitialized disk could cause the target disk not to be found and been resolved.

**If this issue affects you then please create fresh Windows PE rescue media**

#### Bug Fixes v7.1.3307 - 2nd July 2018

- **SQL Backup failure if TLS 1.0 is disabled**

SQL DB authentication would fail if TLS 1.0 was disabled and TLS 1.2 enabled. This

- **Clone and restore error message improvements**

When a clone or restore failed the error messages could display incorrect or cryptic

different. The error text now displays the initial and correct reason for the failure.

- **Clone target disk could not be found**

A clone could fail with an unidentified target disk. This has been resolved.

- **MIG installation**

Macrium Image Guardian could turn off after a reboot if installed for a single user. 'Users'. This has been resolved.

#### Bug Fixes v7.1.3196 - 3rd May 2018

- **Incremental & Differential Image Corruption**

Incremental and Differential images created since 17th April using Macrium Reflect

This has been resolved.

**Important:** Please see [here](#) for more information on this bug.

#### Bug Fixes v7.1.3169 - 24th April 2018

- **Macrium Image Guardian**

On some computers, a situation could arise where Macrium Image Guardian would

the maximum, indiscriminately blocking all modifications to any image file. This has

- **Macrium Image Guardian**

Driver file 'mrigflt.sys' was incorrectly signed in the previous update. This has been

#### What's New v7.1.3147 - 17th April 2018

- **Macrium Image Guardian**

The Macrium Image Guardian system components have been updated to provide

reliability.

- **Backup definition encryption state change mid backup set**

Macrium Reflect will now start a new backup set if the encryption settings in a Ba

#### Bug Fixes

- **Technicians Portable USB Add Drivers**

The Add Drivers Wizard in the technicians portable USB stick could fail to detect

PE when reporting supported devices. This has been resolved

- **File and Folder Restore toast notifications**

When restoring File and Folder backups, incorrect toast notifications could be disp

- **SQL backup error if the Computer DNS name is greater than 15 characters**

For SQL backup, if the default SQL instance name was used and the Computer DN

Computer NetBios name then the backup could fail. This has been resolved

- **ReflectMonitor**

This would cause a delay when restarting and possible loss of log data in the mon

resolved

- **Various**

Various bug fixes and changes to improve Macrium Reflect.

#### Bug Fixes v7.1.2963 - 17th March 2018

- **Windows 7/10 32 Bit BSOD when booting**

A Windows Update on the 13th March has caused some Windows 7 and 10 **32 bit**

Windows after updating. The error occurs when kernel mode driver 'pssnap.sys' lo

removes 'pssnap.sys' from boot time configuration. **Note: Simply deleting the fil**

**We recommend that 32 bit installations of Macrium Reflect on XP, Vista, will**

**upgraded from Windows 7, 32 bit operating systems update to this release.**

If you have already updated Windows and experience this error then please see t

<https://knowledgebase.macrium.com/display/KNOW7/Windows+7+32+bit+BSOD+a>

If you have not yet updated Windows then please update to this version of Macri

to update without problems.

After updating, XP, Vista and Windows 7 32 bit systems, will no longer have 'pssn

shadow copies fail, then your backups will no longer fall back to using 'pssnap'. Pl

errors are resolved to successfully complete your backups.

#### Bug Fixes v7.1.2917 - 27th February 2018

The rescue media could fail to boot and cause a run time error. This has been res

**We recommend creating fresh Windows PE rescue media after updating.**

#### What's New v7.1.2899 - 21st February 2018

- **mrcbt.sys Update**

The Macrium Changed Block Tracker driver mrcbt.sys has been updated to comply

driver requirements for the Insider Preview and subsequent public release of Windows 10. This **resolves** the problem discussed here: <https://knowledgebase.macrium.com/display/KNOW7/Windows+Insider+Preview+1>

- **New command line parameter '-noconsole'**

Please see here for more information: <https://knowledgebase.macrium.com/display/KNOW7/Sending+backup+log+output>

#### Bug Fixes

- **File and Folder search date parameters**  
When searching for files in File and Folder backups, if the From and To dates were result in no results found. This has been resolved.
- **Backup priority setting**  
A bug with the backup priority setting forced backups run with the lowest priority has been resolved.

#### What's New v7.1.2885 - 1st February 2018

- **Missing files reported when mounting backups**  
When mounting backup files, if required files are missing from the backup set then now listed in the error message box.

#### Bug Fixes

- **Synthetic Full re-started backup sets**  
If all incremental images are deleted from a backup set with a synthetic full image creating another Incremental then the error 'Invalid Parameter' would occur when resolved.
- **ReDeploy improvements for NVMe host controllers**  
When migrating a system to an NVMe booting device, ReDeploy required the user this hardware, even when the target OS has native support. This has been resolved. **We recommend creating fresh Windows PE rescue media after updating.**
- **Macrium viBoot**  
When running on systems configured in any language other than English, Macrium display information about virtual machines. This has been resolved.

#### Bug Fixes v7.1.2833 - 14th January 2018:

- **MIG Service install problem**  
The Macrium Image Guardian Service could fail to start. This has been resolved.
- **EXT 4 File System image size**  
Linux EXT 4 file system images could be unnecessarily large. This has been resolved.
- **Free Edition prompt for Windows PE rebuild**  
The Free Edition of Macrium Reflect could prompt for a rebuild even if the rescue media has been resolved.

#### Bug Fixes v7.1.2817 - 8th January 2018:

- **No drive letters assigned for cloned/restored partitions**  
has been resolved.
- **Free edition installed on Windows XP**  
An installer error during the finalise phase could cause a Windows boot failure; see "Known Good Configuration" option. This has been resolved.

#### Bug Fixes v7.1.2801 - 28th December 2017:

- **Symantec Encryption Desktop drives cloning and imaging**  
Cloning and imaging of locked drives encrypted with Symantec Encryption Desktop resolved.
- **BitLocker Removal Restore outcome message**  
When editing a saved clone definition for a 'Live' BitLocker clone a BitLocker 'Removal' icon not fully supported by macrium reflect.
- **RDC and RDR fall back to full copy**  
Rapid Delta Restore and Clone operations could unnecessarily fall back to perform a full copy. Resolved.
- **BitLocker Removal Restore outcome message**  
**We recommend creating fresh Windows PE rescue media after updating to v7.1.2801.**  
When editing a saved clone definition for a 'Live' BitLocker clone a BitLocker 'Removal' icon incorrectly be shown. This has been resolved.

#### Bug Fixes v7.1.2792 - 20th December 2017:

- **Windows 7 drive letter assignments for cloned/restored partitions**  
When cloning/restoring file systems in Windows 7, drive letter assignments may not be correct in the clone/restore wizard. This has been resolved.
- **Windows PE Fix Boot Problems**  
An issue was reported where Fix Boot Problems failed to resolve the target operating system. Resolved.
- **Macrium CBT Tools**  
Macrium CBT Tools could sometimes fail to detect that the correct version of the operating system and prompt the user to reboot unnecessarily. This has been resolved.

#### What's New v7.1.2788 - 12th December 2017

- **Improved BitLocker restore processing**  
1. New warning message box displayed for images created with this release or later results in a 'BitLocker removal' restore.  
2. The source BitLocker state is now included in Image file meta data. For images created later, this is now shown as an icon in the restore wizard source drive and restore wizard. More information on BitLocker restore outcomes can be found <https://knowledgebase.macrium.com/display/KNOW7/BitLocker+Restore+Outcome>.  
**If your system uses BitLocker encryption then we recommend creating fresh Windows PE rescue media after updating.**

- **MIG and RoboCopy sync from a root folder**  
When using RoboCopy to synchronise or move backup files from a drive root folder incorrectly blocked by MIG. This has been resolved.

- **Backup target share authentication**

Authenticated network share backup targets could fail with 'Access Denied' if a user has prior access. This has been resolved.

- **Restore problem to striped or mirrored Dynamic volumes**

A restore or clone could corrupt the target dynamic disk configuration if the target is either 'striped' or 'mirrored'. This has been resolved.

**If this issue affects you then please create fresh Windows PE rescue media**

- **Macrium viBoot**

- viBoot could incorrectly detect MBR disks as GPT if the source disk has remnants leftover from a previous initialisation. This has been resolved.

- viBoot would sometimes fail to start when launched from within Reflect. This has now been resolved.

- **Exchange Databases On volume mount points**

Exchange backup would not check the database path for volume mount points, this has now been resolved.

- **Various**

Various bug fixes and changes to improve Macrium Reflect.

#### Bug Fixes v7.1.2722 - 21th November 2017:

- **MIG not disabled**

For some customers, Macrium Image Guardian would still be active when disabled. This has been resolved.

#### Bug Fixes v7.1.2718 - 20th November 2017:

- **MIG not disabled when 'Restart service on reboot' selected**

Macrium Image Guardian would still be active when 'Restart service on reboot' was selected in the settings dialog. This has been resolved.

- **Macrium viBoot incorrectly identifies some MBR disks as GPT**

Macrium viBoot could incorrectly identify an MBR style disk, stored within an image, as having previously been initialized as a GPT disk. This has now been resolved.

#### Bug Fixes v7.1.2697 - 10th November 2017:

- **Crash When accessing the MIG settings dialog**

German language customers could experience a program crash when accessing the settings dialog. This has been resolved.

#### Bug Fixes v7.1.2695 - 10th November 2017:

- **Security Update for Scheduled Tasks using Windows Task Scheduler 1.0**

This update includes changes for the Anniversary Update and later installs of Windows 10 to schedule backups using the Windows Task Scheduler 1.0 outside of Macrium Reflect. To overcome a process elevation bug in MS Windows Task Scheduler 1.0, scheduled tasks would automatically bypass UAC for all user groups. This could lead to a potential security issue where a Standard user could create and execute backups of sensitive data.

**This functionality is now disabled.** Macrium Reflect v7 uses Windows Task Scheduler to schedule tasks to take regarding this change for normal scheduling of tasks in Macrium Reflect.

- **Security Update for Pre and Post VSS backup scripts**

This update includes changes to the pre and post VSS snapshot script functionality.

This functionality is now **Off** by default and must be enabled by creating the following registry value:

**Key:** HKEY\_LOCAL\_MACHINE\SOFTWARE\Macrium\Reflect\settings  
**Name:** EnablePrePostScripts  
**Type:** DWORD 32 bit  
**Value:** Off = 0, On = 1  
**Default:** 0

Please also see this KB article [Best Practises for saving Macrium Reflect backups](#).

- **Server Plus - Mailbox Restore**

In rare cases, Mailbox Restore would fail to restore email recipients if the recipient property values. This has been resolved.

- **Workstation Edition - Backup Events**

The Workstation Edition of Macrium Reflect would fail to post backup completion events to the log. This has been resolved.

- **BitLocker Restore failed - Write failed - 13 - Permission denied**

When restoring a BitLocker unlocked partition, if the target partition had been shrunk then Reflect would incorrectly perform a 'Live' BitLocker restore. This has been resolved. Please see [here for more information on BitLocker restore outcomes](#).

- **Various**

Various bug fixes and changes to improve Macrium Reflect.

#### Bug Fixes v7.1.2646 - 13th October 2017:

- **CBT causing a lock on removable drives**

The CBT driver could cause a permanent lock on external drives preventing safe removal. This has been resolved.

- **Image Guardian settings dialog hang**

When clicking 'OK', without changing any MIG settings, a progress bar would be displayed and not closed. This has been resolved.

#### What's New v7.1.2638 - 10th October 2017

- **New Macrium Image Guardian disable option**

A new option 'Restart on reboot' has been added to the MIG settings dialog.

- **Simplify script defaults**

VBScript and Powershell default options have now been merged into one group of options.

#### Bug Fixes

- **Backup in PE not always honouring Partition selections**

When imaging in Windows PE, if partitions were de-selected in the backup wizard they were not always honoured in the backup. This has been resolved.

- **GUID destination paths not validated correctly**

been resolved.

- **CBT Blue Screen failure**

In very rare situations, the Changed Block Tracker driver could cause a Windows 10 incorrectly attempts to write past the end of volume boundary. This has been resolved.

- **Various**

Various bug fixes and changes to improve Macrium Reflect.

#### Bug Fixes v7.1.2619 - 2nd October 2017:

- **MIG RoboCopy rules**

MIG could incorrectly disallow RoboCopy with /MIR /PURGE parameters correctly so

#### Bug Fixes v7.1.2614 - 29th September 2017:

- **Rescue Media run error**

Windows PE rescue media could fail to load with a missing DLL message. This has

#### Bug Fixes v7.1.2611 - 29th September 2017:

- **Windows XP VSS problem**

Some systems running Windows XP could fail to read the VSS snapshot. This has

#### Bug Fixes v7.1.2607 - 29th September 2017:

- **MIG settings dialog resource issue**

Systems with non UK English Windows locale would incorrectly see the MIG dialog resolved.

#### What's New v7.1.2602 - 28th September 2017

#### Bug Fixes

- **DPI Scaling Issue In ReflectMonitor**

Some aspects of the ReflectMonitor UI would not scale correctly. This has been r

- **viBoot Install HyperV Check**

Install of viBoot was not checking for presence of Microsoft HyperV. This has bee

- **Image Restore Causing Unnecessary pre-boot chkdsk**

On some motherboards, a pre-boot chkdsk of the EFI system partition could be tr restore. This has been resolved.

- **Slow Backup Definition view load**

- **Server Plus - Exchange Backup**

- The file entries in the cache of Exchange backups could be duplicated. Th
- Exchange backup was not correctly checking for circular logging. This has

- **Server Plus - Mailbox Restore**

- When exporting mailbox items, the Location dialog would occasionally be u This has been resolved.
- In rare cases, Mailbox Restore on Exchange 2016 would fail to restore ema user accounts. This has been resolved.

- **Various**

Various bug fixes and changes to improve Macrium Reflect.

#### Bug Fixes v7.0.2199 - 15th June 2017:

- **Empty folders missing from File and Folder incremental and Differential bac**

When creating an Incremental or Differential File and Folder backup, folders witho included in the backup. This has been resolved.

- **ReflectMonitor notification icon not created**

The notification icon for running backups could fail to be created at logon. This h

- **Various**

Various bug fixes and changes to improve Macrium Reflect.

#### Bug Fixes v7.0.2187 - 28th May 2017:

- **Program crash when retention rules deletes several hundred split files**

A program error could occur when several hundred split image files are deleted du This has been resolved.

- **Split file size**

Split backup files could exceed the specified maximum size by a few bytes. This h

- **Program crash during auto verification**

Some customers with systems running Intel Xeon processors could experience a p verification. This has been resolved.

- **Various**

Various bug fixes and changes to improve Macrium Reflect.

#### Bug Fixes v7.0.2173 - 15th May 2017:

- **Pause when automatically verifying images**

A 5 to 10 second pause could be experienced at the end of automatic image verif resolved.

- **Server Plus Exchange 2016**

Mailbox Restore for Exchange 2016 was not following redirects when connecting t This has been resolved.

- **Exchange mailbox restore from Incremental backup**

On some Exchange systems the Incremental log files were not played into the dat restore failure. This has been resolved

- **Error: "The system cannot find the file specified" when saving the index fo**

to the final file split. This has been resolved.

- **Stale volume name meta data**

The volume name displayed in the Reflect restore and mount user interface would after the Full image. Note: this did not affect the volume name of a restored or m been resolved for newly created Incremental and Differential images.

- **Various**

Various bug fixes and changes to improve Macrium Reflect.



#### Bug Fixes v7.0.2161 - 28th April 2017:

##### Program exception occurs when displaying encrypted drives

- **Various**  
Various bug fixes and changes to improve Macrium Reflect.

#### Bug Fixes v7.0.2158 - 25th April 2017:

- **Program exception during image verification**  
Some customers experienced a program error during image auto verification. This has been resolved.
- **Backup performance to local disks**  
When backing up to local disks the transfer rate could sometimes be erratic and slow. This has been resolved.

On some systems the tray notification icon could be unnecessarily visible when not being resolved.

- **False backup running notifications at Windows logon**  
A backup start notification from a previous backup could incorrectly be shown at Windows logon. This has been resolved.
- **Windows XP Scheduled backups**  
Scheduled backup could fail to populate the 'Scheduled Backups' tab view on Windows XP. This has been resolved.
- **Various**  
Various bug fixes and changes to improve Macrium Reflect.

#### Bug Fixes v7.0.2134 - 12th April 2017:

- **Scheduled task hang**  
Scheduled tasks could hang if the target drive for the backup was unavailable. This has been resolved.
- **Very slow backups**  
Some customers have experienced reported transfer rates of low mb/s or kb/s during backups. This has been resolved.
- **ReflectMonitor Hot-Key**  
The keyboard letter used to launch ReflectMonitor would fail to change from the current setting if it was not in the registry. This has been resolved.

#### What's New v7.0.2128 - 7th April 2017

- **Improved auto verification speed**  
Automatic verification speed has been improved for disk images. This reduces the time taken to verify at the end of a backup.

#### Bug Fixes

- **Index verification error**  
When auto verifying split image incrementals with delta indexes the verification could fail with Verification or Load errors. This has been resolved.
- **Various**  
Various bug fixes and changes to improve Macrium Reflect.

#### Bug Fixes v7.0.2124 - 5th April 2017:

- **Failure to start on Windows XP**  
Reflect would fail to start on Windows XP/Server 2003. This has been resolved.
- **Various**  
Various bug fixes and changes to improve Macrium Reflect.

#### What's New v7.0.2117 - 3rd April 2017

- **Automatic detection of disk write performance**  
Reflect will automatically determine the best method for the fastest image creation time.
- **Additional Scheduled task conditions**  
You can now select additional schedule conditions for each schedule.
- **Run scheduled tasks as any user in the Windows Administrators group**  
Scheduled tasks can now be set to run using any user in the Administrators group. The default is 'Schedule' to set the account.

Please see this KB article for more information on this release:  
<http://knowledgebase.macrium.com/display/KNOW7/Macrium+Reflect+-+Update+3>

#### Bug Fixes

- **Changed Block Tracker driver update**  
An issue is resolved with Microsoft Volume Shadow Copy Service (VSS) hanging. This affects customers using previous versions of Macrium Reflect v7.
- **Various**  
Various bug fixes and changes to improve Macrium Reflect.

#### What's New v7.0.2089 - 21st March 2017

- **Server Plus SQL Server 2016**  
Server Plus now supports SQL Server 2016 instances.

- **Windows 7 - Reflect hang on startup**  
Some customers have experienced a hang when Reflect starts on Windows 7. This has been resolved.
- **Shut-down warning dialog not displayed**  
When scheduling backups with an automatic Windows shutdown at the end, the warning dialog was not displayed. This has been resolved.
- **Network Error: Multiple connections**  
The error 'Multiple connections to a server or shared resource by the same user, but are not allowed' could be shown when scheduled backups write to a network share. This has been resolved.
- **Backup progress not displayed**  
General improvements and fixes to the ReflectMonitor utility to display the progress of backups.

Some customers have had problems saving default settings. This release will correct this and allow application defaults and settings to persist.

**Note:** If the 'Changed Block Tracker' icon in the disk view has been remaining grey, this is a known issue and will be resolved in a future release.



release should correct the problem after the next image is created.

#### Bug Fixes v7.0.2079 - 16th March 2017:

- **Performance issue when backing up to local drives**

Changes have been made to improve backup performance in Reflect 7. Please see below

Network authentication has been improved to prevent scheduled tasks from failing the backup target share.

- **Changed Block Tracker Windows event messages**

Fixed case where CBT Event Viewer messages were not displayed correctly. Please release did not fix this issue.

**For a detailed explanation of the changes in this release please see this KB**  
<http://knowledgebase.macrium.com/display/KNOW7/Macrium+Reflect+v7.0+Update>

#### Bug Fixes v7.0.2055 - 10th March 2017:

On some Windows systems, when running using the Windows 'built-in' Administrator icon in the notification area of the Windows task bar could be hidden during a backup session.

**Please note:** You can also show the status of a running backup, and the last run Windows session, by pressing 'Ctrl'+ 'Alt'+ 'M' at any time.

- **Network share authentication issues**

Network share authentication has been made more robust by automatically checking 'server\user name'. In addition, multiple connections to the same share 'ERROR\_SESSION\_CREDENTIAL\_CONFLICT' caused by multiple simultaneous connections.

- **Changed Block Tracker Windows event messages**

Fixed case where CBT Event Viewer messages were not displayed correctly.

**Please note:** Changed Block Tracker will be enabled after installing this update. If CBT then please disable again after updating.

- **viBoot driver signing**

Fixed a driver signing issue that affected some users of viBoot on Windows 10.

#### Bug Fixes v7.0.2035 - 7th March 2017:

- **Hang when splitting backup files**

FAT32 destination. This has been resolved

- **Scheduled backups network authentication**

Scheduled backups could fail to authenticate against password protected network shares. This has been resolved and network share connection attempts are now included in the backup log.

- **Failure email not sent if the backup definition xml contained errors**

If a backup definition reported 'XML Invalid' due to a disk ID mismatch then a failure email was not sent. This has been resolved.

#### Bug Fixes v7.0.2023 - 3rd March 2017:

- **Scheduled Tasks Upgrading Error**

and with task saving issues in earlier versions of v7.

For more information on this please see

<http://knowledgebase.macrium.com/display/KNOW7/Scheduled+Tasks+Upgrad>

#### Bug Fixes v7.0.2001 - 28th February 2017:

- **Scheduled Tasks Run Time Error**

Some customers have experienced scheduled tasks saved with an incorrect run time. This releases resolves this problem.

Programs failing at startup

After upgrading from v6 Reflect could fail at startup. This releases resolves this problem.

**After installing this update, please check your scheduled tasks and correct**

For more information on these problems please see

<http://knowledgebase.macrium.com/display/KNOW7/Macrium+Reflect+v7.0.1999>

#### Macrium Reflect v7.0.1994 - 27th February 2017 - Initial Release

- **New backup engine**

system changes.

- **Virtual Image Boot**

Instant virtualization of Macrium Images using Hyper-V virtual machines and Macrium

- **Windows Task Scheduler 2**

Macrium Reflect now uses the Windows Task Scheduler v2 API to save scheduled tasks on later operating systems.

- **More Information...**

See [here](#) for more information on Macrium Reflect v7.