

"MACRIUM REFLECT FREE" FOR BACKUP IMAGING AND RESTORES OF HARD DRIVES IN "WINDOWS.."

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An International
Association of Technology
& Computer User Groups

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EXECUTIVE SUMMARY

"Macrium Reflect Free" is a reliable software utility program for doing image backups and restores of hard drives and SSDs in a "Windows.." computer.

TOPICS

- Features of "Macrium Reflect Free"
- Comparison to "Acronis True Image"
- Installs As a Desktop App
- Use Desktop App to Make a Bootable "Rescue" DVD
- Two ways to make backups
- Two ways to do drive image restores
- Use "Revo Uninstaller Portable" to delete the Desktop app if..⁴

TOPICS (continued)

- "Macrium Reflect Free" does not have a portable version

FEATURES OF "MACRIUM REFLECT FREE"

- Not available at macrium.com Web site
- Available at <http://macrium.com/reflectfree>
Then click on the "Home Use" button

Free Edition

Free backup, disk imaging and cloning solution for **commercial and personal** use.

Protect your data, upgrade your hard disk or try new operating systems in the safe knowledge that everything is securely saved in an easily recovered backup file. Macrium Reflect supports backup to local, network and USB drives.

Macrium Reflect 7 Free Edition is ready to download now and has a number of additional features not available in version 6. It is now licensed for both home and business use.

FEATURES OF "MACRIMUM REFLECT FREE" (continued)

<Start of quote:>

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FEATURES OF "MACRIUM REFLECT FREE" (continued)

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FEATURES OF "MACRIUM REFLECT FREE" (continued)

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<End of quote>

Macrium Reflect Minimum System Requirements

PC and Windows

In order to run Macrium Reflect, you must have a system that has the following minimum system requirements:

- At least 512MB RAM (1GB min recommended)
- Windows XP Service Pack 3 or Windows Server 2003 Service Pack 2 or later
- A keyboard and mouse

To use the rescue media, you will need either a CD/DVD writing drive or USB pen drive.

Supported File Systems

Imaging clusters in use and changed clusters (intelligent copy) is supported by FAT16, FAT32, NTFS and Ext 2,3,4 file systems. All other file systems and unformatted partitions will be imaged on a sector by sector basis, i.e, every sector in the partition will be copied.

Rapid Delta restore (RDR) and Rapid Delta Clone (RDC) is supported by NTFS file systems only. All other file systems will cause a Full restore or clone.

FEATURES OF "MACRIUM REFLECT FREE" (continued)

- Source for the previous 3 slides:
https://updates.macrium.com/reflect/v7/user_guide/macrium_reflect_v7_user_guide.pdf?src=sidebar
or click on the following link:
https://updates.macrium.com/reflect/v7/user_guide/macrium_reflect_v7_user_guide.pdf?src=sidebar

"WINDOWS.." COMPUTER

FEATURES OF "MACRIUM REFLECT FREE" (continued)

- Installs as a "desktop app".
For step-by-step screenshots, see http://aztcs.org/meeting_notes/winhardsig/software/utils/zip/MacriumInstall-intoWin.zip

"WINDOWS.." COMPUTER

**"MACRIUM REFLECT FREE"
PROGRAM (INSTALLED AS A
"DESKTOP APP")**

FEATURES OF "MACRIUM REFLECT FREE" (continued)

- Only one way to make a rescue media ISO file or a rescue media DVD or a rescue USB thumb drive: Use the "Macrium Reflect Free" "Desktop app" . See http://aztcs.org/meeting_notes/winhardsig/software/utils/zip/MacriumCreateRescueDVDinWin.zip

"WINDOWS.." COMPUTER

**"MACRIUM REFLECT FREE"
PROGRAM (INSTALLED AS A
"DESKTOP APP")**



"RESCUE MEDIA" DVD

"WINDOWS.." COMPUTER

**"MACRIUM REFLECT FREE"
PROGRAM (INSTALLED AS A
"DESKTOP APP")**



**"RESCUE MEDIA" USB FLASH
DRIVE**

"WINDOWS.." COMPUTER

**"MACRIUM REFLECT FREE"
PROGRAM (INSTALLED AS A
"DESKTOP APP")**



**"RESCUE MEDIA" ISO FILE TO USE
AS A VIRTUAL CD OR A VIRTUAL
DVD FOR "VIRTUAL MACHINES"**

FEATURES OF "MACRIUM REFLECT FREE" (continued)

- Two ways to make an image backup of a hard drive:
 - METHOD ONE:
Windows app (= "Macrium Reflect Free" running inside "Windows..")
 - METHOD TWO
Rescue Media DVD or rescue USB thumb drive (to boot up your computer):

FEATURES OF "MACRIUM REFLECT FREE" (continued)

- Two ways to make an image backup of a hard drive (continued):
 - METHOD ONE:
Windows app (= "Macrium Reflect Free" running inside "Windows..").
See http://aztcs.org/meeting_notes/winhardswig/software/utils/zip/MacriumBackupViaWinGUI.zip

"WINDOWS.." COMPUTER

**"MACRIMUM REFLECT FREE"
PROGRAM (INSTALLED AS A
"DESKTOP APP")**




**EXTERNAL HARD DRIVE OR
EXTERNAL SSD GETS *.mrimg
IMAGE FILE OF C: DRIVE**

FEATURES OF "MACRIUM REFLECT FREE" (continued)

- Two ways to make an image backup of a hard drive (continued):
 - METHOD TWO
Rescue Media DVD or rescue USB thumb drive (to boot up and then back up your computer). See http://aztcs.org/meeting_notes/winhardsig/software/utils/zip/MacriumBackupViaRescueDVD.zip

"WINDOWS.." COMPUTER

**"MACRIMUM REFLECT FREE"
RUNNING FROM MACRIMUM
REFLECT FREE'S "RESCUE MEDIA"
CD OR DVD THAT HAS BEEN USED
TO BOOT UP THE "WINDOWS.."
COMPUTER**



**EXTERNAL HARD DRIVE OR EXTERNAL SSD
GETS *.mrimg IMAGE FILE OF C: DRIVE**

FEATURES OF "MACRIMUM REFLECT FREE" (continued)

- Two ways to restore an image backup to an actual hard drive or SSD:

PROCEDURE 1:

If the restore target drive is located inside it's actual computer:

"Bare Metal" restore using a Rescue Media CD or DVD or a rescue USB thumb drive

FEATURES OF "MACRIUM REFLECT FREE" (continued)

- Two ways to restore an image backup to an actual hard drive or SSD:

PROCEDURE 1 (continued):

For step-by-step screenshots, see http://aztcs.org/meeting_notes/winhardsig/software/utils/zip/MacriumRestoreViaRescueDVD.zip

"WINDOWS.." COMPUTER

MACRIMUM
REFLECT FREE'S
"RESCUE MEDIA"
CD OR DVD USED
TO BOOT UP THE
"WINDOWS.."
COMPUTER

"TARGET" NEW
OR FORMATTED
HD OR SSD THAT
BECOMES THE
NEW C: HD OR
SSD

EXTERNAL HARD DRIVE OR EXTERNAL SSD
HAS *.mrimg IMAGE FILE OF C: DRIVE

FEATURES OF "MACRIUM REFLECT FREE" (continued)

- (Two ways to restore an image backup to an actual hard drive or SSD (continued):)

PROCEDURE 2:

If the restore target drive is moved to a working computer that also has a copy of "Macrium Reflect Free" Windows "desktop app", then you can restore using the "Macrium Reflect Free" desktop app on this additional computer.

ANOTHER "WINDOWS.." COMPUTER

"MACRIMUM REFLECT
FREE" RUNNING AS A
"DESKTOP APP"
INSIDE YOUR
FRIEND'S
"WINDOWS.."
COMPUTER

"TARGET" NEW
OR FORMATTED
HD OR SSD THAT
BECOMES THE
NEW C: HD OR
SSD FOR YOUR
COMPUTER

EXTERNAL HARD DRIVE OR EXTERNAL SSD
HAS *.mrimg IMAGE FILE OF C: DRIVE

FEATURES OF "MACRIMUM REFLECT FREE" (continued)

- (Two ways to restore an image backup to an actual hard drive or SSD (continued):)
PROCEDURE 2 (continued):
After the restore process, you then move the target hard drive back to the computer that it belongs to.

COMPARISON OF "MACRIUM REFLECT FREE" WITH "ACRONIS TRUE IMAGE"

- "Acronis True Image" does not have a free version:
"Acronis True Image" only has a time-limited and feature-limited initial trial period.

COMPARISON OF "MACRIUM REFLECT FREE" WITH "ACRONIS TRUE IMAGE" (continued)

- Bootable "Rescue" disc of "Macrium.." uses Microsoft's "Windows Pre-execution Environment" while Acronis' bootable "Rescue" disk uses a proprietary version of "Linux.."

COMPARISON OF "MACRIUM REFLECT FREE" WITH "ACRONIS TRUE IMAGE" (continued)

- Bootable "Rescue" disc of "Macrium.." is custom-tailored for your computer from inside the Desktop app of "Macrium" Microsoft's "Windows Pre-execution Environment" while
(continued)

COMPARISON OF "MACRIUM REFLECT FREE" WITH "ACRONIS

TRUE IMAGE" (continued)

- (continued from the previous slide) while Acronis' "Rescue Media" disc is downloaded either from inside Acronis True Image's Desktop app or it can be downloaded with a Web browser from your account at <https://account.acronis.com/#/auth/login>

COMPARISON OF "MACRIUM REFLECT FREE" WITH "ACRONIS TRUE IMAGE"

(continued)

- The "Rescue Media" DVD or .ISO file that you download from your account at <https://acronis.com> can be used to boot up and then back up any "Windows.." computer.

Unlike the "Rescue Media" DVD of "Macrium..", the Acronis.. "Rescue Media" DVD does not need to be customized for a specific "Windows.." computer

COMPARISON OF "MACRIUM REFLECT FREE" WITH "ACRONIS TRUE IMAGE" (continued)

- To save hard drive space, you can remove the desktop app of both Macrium.. AND Acronis.. after making a Rescue DVD with either software program and then use their bootable Rescue DVDs to do both backups and restores.

"MACRIUM REFLECT FREE" DOES NOT HAVE A PORTABLE VERSION

- Neither "Macrium Reflect Free" nor "Acronis True Image" have a "portable app" version but since both let you boot up with their respective "Rescue" DVDs, both can be run with no hard drive or registry footprint or usage of hard drive space.

"MACRIUM REFLECT FREE" DOES NOT HAVE A PORTABLE VERSION (continued)

- With "Macrium Reflect Free", you have to install it's Windows "desktop app" before you can make a computer-specific "Rescue Media" CD or DVD.

"MACRIUM REFLECT FREE" DOES NOT HAVE A PORTABLE VERSION

(continued)

- After using the "desktop app" of "Macrium Reflect Free" to make a computer-specific "Rescue Media" DVD, you can use "Revo Uninstaller Portable" to remove "Macrium Reflect Free" in order to free up the hard drive space that is utilized by "Macrium Reflect Free"

"MACRIUM REFLECT FREE" DOES NOT HAVE A PORTABLE VERSION

(continued)

- Then you can use the "Rescue Media" CD or DVD of "Macrium.." to do future image backups and image restores of the C: drive of your "Windows.." computer.

"MACRIUM REFLECT FREE" DOES NOT HAVE A PORTABLE VERSION

(continued)

- Our instructions for using "Revo Uninstaller Portable" are located at http://aztcs.org/meeting_notes/winhardsig/uninstaller/RevoUninstallerPortable.pdf with a clickable link at http://aztcs.org/meeting_notes/winhardsig/uninstaller/RevoUninstallerPortable.pdf