

UBDR GOLD

Bare Metal Disaster Recovery. Business Continuity. Continuous Data Protection.

UBDR Gold raises the bar in disaster recovery. UltraBac Disaster Recovery (UBDR) Gold uses snapshot (image) based backup and disaster recovery technology to provide lightning fast physical or virtual restores. The software works with every Windows server or workstation, and can be used to perform dissimilar hardware restores. UBDR Gold uses UltraBac's ability to perform live image backups, along with a WinPE boot CD or USB key, to restore one or more disk partitions - even to a larger capacity disk drive right out of the box. UltraBac's Locked File Backup Agent is also integrated with UBDR Gold to ensure open files are backed up safely during the image process. UBDR Gold can be licensed for independent, stand-alone use, or it can be fully integrated with UltraBac's regular file-by-file backup and restore software.

UBDR Gold provides customers all the features of UBDR Pro along with the ability to perform virtual based disaster recoveries using either VMware or Microsoft Virtual Server host machines. Optional agents for TSM, SFTP/FTP, and media libraries are also offered with UBDR Gold. Another strategic feature of Gold is its ability to cold boot a machine and perform **image or file** based backups to literally every type of storage device: SAN, NAS, UNC path, local disk, TSM, SFTP/FTP, USB/FireWire, local/remote tape devices, and media libraries. This means an administrator can boot a failed machine and safely back up data partitions before allowing a technician access to data that could be irretrievably lost during the repair effort.

Continuous Data Protection. With the introduction of UBDR Gold's latest technology, Continuous Image Protection (CIP)[™], the software continues to add to its first to market feature list. CIP is a form of continuous data protection (CDP) with a new innovation: unlike standard image backups which run on a periodic basis, UBDR Gold's CIP functionality continuously monitors all new blocks written to a protected disk partition and backs up these changes in near real-time. Utilizing traditional image backups, when a failure occurs you might be restoring a static image that could be up to 23 hours old. With CIP installed, your system can be brought back to a point-in-time only minutes, even seconds, old.

True dissimilar hardware capability. Perform dissimilar hardware restores with UBDR Gold's physical-to-physical (P2P) disaster recovery feature. This means, for example, if an HP server fails, a backed up OS image can be restored to a Dell server and successfully booted.

UBDR Gold was the first Windows backup software to offer physical-to-virtual (P2V) based disaster recoveries. This allows organizations to recover a server and emulate it virtually 100 percent in as little as 15 minutes. To perform a P2V recovery, simply create as many new virtual environments as required on your host virtual server. Then use UBDR Gold to boot into the recovery wizard. Recovering to a virtual environment is automatic and requires no special setup, pre-configuration, or other considerations. Gold also supports virtual-to-virtual (V2V) and virtual-to-physical (V2P) recoveries, providing users with every available virtual disaster recovery option.

Introducing VMDK file backup. UBDR Gold now provides the ability to create native VMware ESX or GSX Virtual Machine Disk (VMDK) files in one simultaneous operation while backing up a live system. Creating ESX and GSX VMDK files during a regular image backup is a first in the industry. After the VMDK file is created, subsequent incremental or differential image backups written to the same location automatically update the last full VMDK file with only the changed blocks from that backup. The advantage of creating a VMDK file (which is a complete virtual machine (VM)) during a backup, is that a multi-step conversion is **not required** to perform a migration of a physical machine (P2V) to either an ESX or GSX host server. Upon creation of the VMDK file, the user can either attach the file to an existing VM or create a new machine using that file. While this new functionality can be used for easy P2V migrations, it was actually designed to provide an unprecedented level of protection by creating off-line VM backups. In the event of a catastrophe it would allow all protected physical machines to be easily and quickly "reconstructed" virtually. Since UBDR Gold also offers V2V and V2P migration, users have total flexibility in moving VMs virtually, or they can choose to export them back to physical machines as requirements might dictate. A V2P migration automatically makes all required adjustments as "dissimilar" hardware changes are encountered (operates in the same manner as a UBDR Gold P2P migration).

Integrating SFTP and FTP into disaster recovery was another first for UBDR Gold. With an SFTP/FTP recovery, an image can be restored from a LAN, WAN, or the Internet. UBDR Gold is also unique in that it directly supports local tape, local

libraries, remote tape, and remote libraries. The major advantage of image backups to disk is lightning fast disaster recovery. Using tape however, still has many strategic benefits. UltraCopy (another first to market product), UltraBac Software's optional disk-to-tape utility, offers inexpensive and redundant storage of unlimited numbers of backup copies for the ultimate in off-site data protection and disaster recovery.

Sophisticated customers also appreciate that UBDR Gold can be 100 percent scripted for both backups and restores. This means remote sites can be fully recovered automatically without any local administration. Unbootable servers can be quickly restored and brought back online. Instructing non-technical personnel through a difficult disaster recovery process is replaced with this seamless and completely automatic process.

UBDR Gold Highlights:

- Perform image or file-by-file backups and restores from a universal boot CD or USB flash drive.
- Physical-to-physical dissimilar hardware recovery functionality.
- Third-party driver support for dissimilar hardware restores.
- P2V, V2V, V2P, and P2P disaster recovery options.
- Virtual disaster recoveries using VMware or Microsoft Virtual Server platforms.
- VMDK option allows users to create VMware ESX or GSX virtual machine disk files in one simultaneous operation while backing up a live system.
- Continuous Image Protection (CIP) option.
- SFTP/FTP device backup and restore option.
- Tivoli Storage Management (TSM) server backup and restore option.
- Restore to larger or smaller partitions.
- Back up and restore with local and remote tape devices.
- Control local and remote media libraries.
- Differential or incremental image backup options.
- Update operating systems, hard drives, or deploy new machines.
- 100% scripted restores for unassisted recoveries.
- Plus all of these great highlights from UBDR Pro...

UBDR Pro Highlights Also Available in Gold:

- Live OS backup to tape, disk, or network UNC path.
- Back up active sectors only to minimize media requirements.
- Ignores page files and hibernation file data.
- Back up one or all partitions on a disk.
- Automatically compresses backups.
- Boot from a universal CD with no advance setup.
- Recover from tape, disk, network UNC path, or USB/FireWire attached storage device.
- Up to 7GB/minute restore speed.
- Resizes partition when restoring to one physically larger than the original.
- Recover a non-active partition while Windows is operating.
- Initiate and monitor restore(s) from remote machine.
- Built-in encryption option for security.
- Allows static "mirroring" of local disks.
- Volume Shadow Copy Service (VSS) for Windows XP and 2003.

Fast Payback. Corporate estimates for system downtime range anywhere from \$5,000 per hour to over \$15,000 a minute! When disaster strikes in the form of a failed server, even a small organization can realize over a 100 percent ROI in just one single use of UBDR Gold.

The UBDR Difference. UltraBac Software specializes only in backup and disaster recovery software. UBDR Pro and Gold have been carefully designed to provide the utmost in server and workstation protection by minimizing excessive and costly downtime that usually accompanies a failed computer system. This revolutionary software technology allows scheduled backups of live machines with no required and inconvenient shutdowns. If and when an unbootable condition does occur, UBDR Pro or Gold can return the average machine to its operational status in 15 minutes or less.