What's New in Release 6.3

Simply Scalable™ Enterprise Data Protection for Every Business

Unitrends Release 6.3 adds to Unitrends' industry-leading enterprise-class backup, archiving, instant recovery, and disaster recovery solution for heterogeneous virtual, physical, and cloud environments. This release is the first that supports a new software-only Hyper-V and VMware virtual appliance product offering from Unitrends which is called Unitrends Enterprise Backup™ and is available in both a Free Edition as well as an Enterprise Edition.

"Over other solutions that I have used, Unitrends provides ease of installation, much faster recovery times, and reliability."

GE Healthcare

Unitrends Simply Scalable™ technology enables a hybrid cloud data protection architecture with D2D2x (Disk-to-Disk-to-Any) flexibility. Our unified approach contrasts with the point solution approach most vendors take and means we're able to bridge across multiple technologies including:

- On- and off-premise instant recovery capabilities.
- Agent and agentless methodologies.
- File and image (or block) approaches.
- Virtual and physical environments.
- On-premise and off-premise (cloud.)
- Single and multi-tenant private cloud and public cloud support.
- Dissimilar and similar bare metal across both virtual and physical environments (e.g., P2P, P2V, V2P, and V2V.)
- Bare metal, file, and block/image backup unified in a single offering.
- Disk, tape, NAS, replicated NAS, SAN, and replicated SAN archival targets.
- Over 100 versions of servers, storage, operating systems, hypervisors, and applications.
- Scale-up (via our Unitrends Enterprise Backup™) product, scale-out (via all of our products and our single pane-of-glass management and monitoring functionality), and scale-down (which means bringing enterprise-class capabilities to small and medium businesses.)

In short, we offer a "future proof" adaptability to enable the agile IT infrastructure.

Whether you are one of our thousands of existing Recovery-series appliance customers who are upgrading to Release 6.3 for free, a Unitrends Enterprise Backup™ Hyper-V, a VMware Free Edition user who is protecting your small virtual environment at no cost, or a Unitrends Enterprise Backup™ Enterprise Edition customer, release 6.3 delivers a suite of new features designed to support your ability to use virtual, physical, and cloud environments to create an agile information technology infrastructure for your company.

Release 6.3 Core Features

New Unitrends Release 6.3 core features that operate on both the software-only Unitrends Enterprise Backup™ Hyper-V and VMware virtual appliances and the physical Recovery-series appliances include:

- **Simpler deployment and setup via our scale-down technology.** A significant change in Release 6.3 is a completely re-imagined and re-engineered setup process and setup wizard that supports all Unitrends products. This is designed to accelerate the TtV (Time-to-Value) so that the user can quickly go from downloading our software product or racking our physical product to begin protecting various clients in five minutes or less.
- **Visual client operating system representation.** Because we support so many different types of operating systems as well as hypervisors and applications, we now provide better iconic representation of each of these at all points in the system.
- **Single server backup.** Backup is now available not only in a multiple server backup single screen, but also in a single server backup screen. Single server backup is simpler; multiple server backup allows the creation of single schedule (or job) backups consisting of up to thousands of servers. No wizards are necessary for either multiple server backup or single server backup. Bare metal, full/full, full/differential, full/incremental, incremental forever, and custom strategies are available from both the single and multiple server backup screens.
- **Navigation simplification.** Prior versions of the user interface had a relatively restrictive navigation paradigm; this has been replaced by a smarter navigation scheme that predicts what the user means where possible and asks the user what to do otherwise.
- **NAS and unified storage protection simplification.** Agentless and serverless NAS protection has been simplified via the ability to create backup strategies around mount points.
- **User interface environmental adaptation.** The user interface detects what exists in the user's environment and chooses a display strategy designed to simplify the user experience without interfering with the features available to the user.
- **Customer/location configurable autohide.** Larger deployments use customers and locations to track systems; however, smaller deployments tend to ignore customer/location information. This has been made configurable in this release.

- **Menu simplification.** The available menu options have been simplified. "Tools" and "Configuration" have been replaced with a single "Settings" menu item and underlying groupings. Navigation within the "Settings" subsystem is available not only via iconic selection and cancel/close but also via a hyperlink-based breadcrumb scheme in the top panel.
- **Hyper-V incremental forever.** The incremental forever backup strategy with dynamic synthetic creation which is now available for Hyper-V.
- **Hyper-V FLR (File Level Recovery.)** Point-in-time granular file-level recovery is now available for Hyper-V (it was previously available only for VMware.)
- **VMware incremental forever.** The incremental forever backup strategy with dynamic synthetic creation which is now available for VMware.
- **VMware backup of NFS data stores.** Unitrends uses the VMware API for Data Protection interface for HOS (Host Operating System) VMware backup (note: backup of physical systems can also be done on a GOS (Guest Operating System) basis.) This feature allows host-level protection to be performed of data stores that are resident on NFS, i.e., the VMDK representing the virtual machine resides on an NFS share.
- **Archive file-level search.** Advanced archive file-level search is now available across our tertiary backup. What this means for our users is that in our D2D2x (Disk-to-Disk-to-Any), archive file-level search is now available across disk, tape, NAS, SAN, and replicated NAS or SAN.
- **Active Directory authentication.** Our data protection systems have self-contained and independent authentication mechanisms; this feature allows our systems to use the existing Active Directory credentials in a Windows environment for authentication into our data protection systems.
- **Protection of SQL Server 2012.** In addition to our support for previous versions of SQL Server, we now offer native support of SQL Server 2012 for both physical and virtual environments.
- **Protection of Redhat Enterprise Linux 6.2.** In addition to our support for previous versions of RHEL (Redhat Enterprise Linux), we now offer native support of RHEL 6.2 for both physical and virtual environments including bare metal support.
- **Protection of IBM AIX 7.1** In addition to our support for previous versions of IBM AIX, we now offer native support of IBM AIX 7.1 for both physical and virtual environments including bare metal support.
- **Protection of Oracle Solaris 11.** In addition to our support for previous versions of Oracle Solaris, we now offer native support of Oracle Solaris 11 for both physical and virtual environments including bare metal support.
- **Protection of Novell OES 11.** In addition to our support for previous versions of Novell OES, we now offer native support of Novell OES 11 for both physical and virtual environments including bare metal support.

Release 6.3 Features for Unitrends Enterprise Backup™ Virtual Appliances

New Unitrends Release 6.3 features that operate on the Unitrends Enterprise Backup™ software-only virtual appliance platform for Hyper-V and VMware include:

- **Smaller footprint.** Unlike other data protection products, Unitrends all-in-one virtual appliances handles the details of storage administration. The minimum amount of metadata necessary to support a terabyte of raw backup space has been significantly reduced to a mere 27GB. Note that this will grow as more data is protected and/or more metadata is needed; an example is document management systems with millions of files per terabyte that will require more than this minimum.
- **Smaller download size.** The download size has been reduced from approximately 1.4GB to approximately 1GB for both the Hyper-V and VMware virtual appliances.
- **Checksum-based download process.** A new checksum-based download process is offered for all editions of Unitrends Enterprise Backup™.
- **Support for tape archiving under VMware.** Support for tape archiving (D2D2T, or Disk-to-Disk-to-Tape), which is a key feature on our Recovery-series of physical appliances, is now available for our VMware-based Unitrends Enterprise Backup™ product. (Note: This feature is not available on Windows 2008 R2 Hyper-V role or Hyper-V server at this time due to a lack of interface information being available in the Hyper-V hypervisor.)
- **Storage virtualization.** Storage virtualization is provided via an advanced LVM (Logical Volume Management) implementation that provides higher performance across multiple physical spindles and simpler management through backup and associated metadata being managed as a single primary pool of backup storage.
- **Thin provisioning.** Thin provisioning is provided via the storage virtualization capabilities such that new backup (and associated metadata) space can be dynamically added and collated into the primary backup pool.
- **Global deduplication.** Global deduplication across multiple physical devices is available on Unitrends Enterprise Backup™ through an advanced storage virtualization implementation.
- **Interoperability with third-party deduplication devices.** Either using the setup wizard or via the "Settings" configuration system in the user interface interoperability with third-party deduplication devices as the core backup target is now 1-click simple. Third-party deduplication devices typically offer even better deduplication performance and data reduction ratios.
- **Licensing.** Unitrends Enterprise Backup™ offers a Free Edition, a Trial Edition for evaluation of all features for purchase, an NFR (Not For Resale) time-limited edition designed for certified Microsoft and VMware professionals, and an Enterprise Edition with both resource-based licensing as well as protected capacity licensing. Resource-based licensing is available on a

per-socket, per-physical server, and per-server application level.

Release 6.3 Features for Unitrends Recovery-Series Physical Appliances

New Unitrends Release 6.3 features that operate on the physical Recovery-series appliances include:

- **RJ45 10Gb Ethernet adapter support.** Support for the RJ45 10Gb Ethernet adapter is provided on those Recovery-series platforms that support 10Gb Ethernet adapters. For more information, please see the Recovery-series data sheets.

Release 6.3 Terminology Changes

The following terminology changes have been made with respect to all products:

- **BP (Backup Professional.)** This is now called a "system."
- **DPU (Data Protection Unit.)** This is now called a "system."
- **MDPU (Managed Data Protection Unit.)** This is now called a "managed system."
- **DPV (Data Protection Vault.)** This is now called either a "vault" or a "replication target."
- **RRC (Rapid Recovery Console.)** This is now simply called the "user interface" or the "administrator interface."

| Supported Platforms

Unitrends Release 6.3 is supported on the Unitrends Recovery-series of physical applances and on the new Unitrends Enterprise Backup™ software-only virtual appliances for Microsoft Hyper-V and VMware ESX and ESXi. Release 6.3 is not supported on the vRecovery VMware-based virtual appliance - to upgrade customers with vRecovery should contact their sales representitive in order to be upgraded at no cost to Unitrends Enterprise Backup™.