

Full Features List of Protect & Restore

Features	Benefits
Backup / Replica	
Flexible Scheduling Mechanism / Near CDP (Continuous Data Protection)	Protection policies can be scheduled from every minute to a particular day, week, month, etc.
Smart Incremental Backup	A full backup or replica will be automatically created whenever necessary
Automatic Exclusion of Redundant Data (OS page files, zero data blocks, etc.)	Allows speeding up backup, while minimizing storage requirements
Support of Microsoft VSS	The use of Microsoft's Volume Shadow Copy Service allows 100% data consistency when taking snapshots of Windows machines
Paragon UFSD (Universal File System Driver)	Provides fast and reliable access to major file systems
Paragon VHD (pVHD) (Virtual Hard Drive)	It's a cutting-edge backup image format that provides exceptional security, compression ratio, and integrity control
Support of Any Guest OS Hosted by vSphere	Supports VMware vSphere 5.1, 5.0, 4.1, and 4.0
Support of Windows 8 and Windows Server 2012	Full compatibility with the latest operating systems by Microsoft
Physical Machine Protection	
Agent-based Backup	A special agent embedded to every target physical machine interacts with the infrastructure and accomplishes backup tasks
Backup of Entire Physical Machines	Protection of entire machines guarantees complete data safety
Backup of Separate Volumes (mounted or unmounted)	Protection of particular volumes allows minimization of backup windows and storage requirements
Backup of Workgroup Machines	Our solution can not only protect members of a domain where it is deployed, but any workgroup machine on the net
One-Stop-Wizard for Immediate Protection	One-Stop-Wizard helps to instantly configure and initiate protection of single physical servers and workstations
Wake-on-LAN Assistant	It's a special service that allows waking up remote target machines to do backup. There's no need to install it on all machines that require wake-up-on-LAN – the administrator just picks one and it will automatically wake up all others that share the same subnet when needed
Virtual Machine Protection for vSphere	
Agentless Backup of Online / Offline VMs (entire machine only)	The use of the VMware snapshot mechanism enables to significantly enhance the backup performance, while minimizing the load on target machines and the hypervisor during the process. Besides, there's no need to provide credentials for every guest
Agentless Replication of Online / Offline VMs (entire machine only)	Higher replication performance and less load on target machines and hypervisors. With VMware snapshot, the replication process speeds up and no additional credentials are needed to access the guest machines
Agent-based Backup of Fault-tolerant Systems	The concept of the VMware fault-tolerant system doesn't allow agentless protection through the VMware snapshot mechanism. This type of systems can only be protected from inside by using physical agents
Agent-based Backup of Guests Hosted by Non-commercial VMware ESX	Since agentless protection through the VMware snapshot mechanism is unavailable for this type of hypervisors, the only option to protect their guests is to use physical agents
Support of VMware CBT	The use of VMware Changed Block Tracking ensures full or incremental backups or replicas are created with the minimum time and impact on ESX

For additional information, please contact us at: www.paragon-software.com, www.protect-restore.com or +1 (888) 347-5462.

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Paragon ITE	Paragon's Image Transfer Engine is an alternative way of tracking data changes. It's automatically used when VMware CBT fails
VM Disk Provisioning Type Specification (default, thick, thin)	Helps to optimize the use of storages
Physical Machine Recovery	
Remote Restore (non-system volumes)	Our solution enables to accomplish recovery of data volumes directly from Protect & Restore Console
On-site Bare-metal Restore (entire computers or separate volumes)	An entire physical machine or separate volumes can be recovered on-site with a special WinPE media prepared beforehand through Boot Media Builder. To do restore the target computer should have a network connection to Administration and/or Backup Servers
Paragon Boot Media Builder	Helps to prepare a customizable WinPE-based recovery media for bare-metal restore operations
Paragon Recovery-ID	Administrator sets up a restore task in Protect & Restore Console, then sends the generated task ID to the user. The user should only start up the failed computer from the WinPE recovery media and enter the obtained ID. The restore operation will be accomplished automatically, thus avoiding any mistake from the user's side
Manual Bare-metal Restore	The problem machine is started up from the WinPE recovery media. After connection to the infrastructure, Administrator manually specifies the desired machine, volume, and restore point
File-level Restore	Allows browsing contents of physical backup images to do granular recovery of separate files and/or folders. Required data can be restored either locally (on a machine where Protect & Restore Console is installed) or on a network share, provided the original directory structure is kept intact if necessary
Paragon Adaptive Restore	Allows restoring a Windows-based system to a completely different hardware
Support of GPT/uEFI configurations	Allows restoring a 64-bit Windows system configured to the uEFI-based boot mode
Virtual Machine Recovery	
Restore Point Specification (for backups and replicas)	Enables to specify any available time-stamp during recovery
Launch of VM Replicas (from Protect & Restore Console)	The specified replica will be correctly detached from the replication process and then launched, which may take only a couple of seconds
Restore to the Original Location (the original VM is replaced)	When restored to the original location, the original machine will be automatically deleted (it should be offline)
Restore to a New Location (includes proper reconfiguration of VM)	When restored to a new location you will be prompted to provide a new name for the machine, and a host and datastore to reside it. The VM configuration file will be modified accordingly
File-level Restore	Allows browsing contents of VM backups and replicas to do granular recovery of separate files and/or folders. Required data can be restored either locally (on a machine where Protect & Restore Console is installed) or on a network share, provided the original directory structure is kept intact if necessary
VM Disk Provisioning Type Configuration (default, thick, thin)	Helps to optimize the use of backup and replica storages
Migration	
Migration between ESX Datastores	Enables to migrate a virtual machine hosted by ESX to another datastore
P2P-Migration	Thanks to Paragon's Adaptive Restore a Windows-based physical machine can be smoothly transferred to different hardware
V2P-Migration	Combination of the agent-based backup and Paragon's Adaptive Restore opens up the option to convert a virtual machine to physical
Management & Administration	
True Distributed Architecture	Allows great flexibility and enterprise scalability

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Paragon Protect & Restore Console	One central console for operations in physical and virtual environments
Paragon GoForSure	Paragon's GoForSure is a special mode, when policies don't run till the end, but a particular step, which is defined by a level of validation (fast, medium, thorough). Validation enables to be pretty sure created policies will be completed with a success
Intelligent Load Balancing	Unlike other tools that use simple round-robin algorithms to balance load across the backup infrastructure, our solution considers Backup Server's availability, access to source data, current backup repository load by other concurrent tasks, and other factors
Network Traffic Compression	Minimizes load on the network
Traffic Throttling	Allows managing network bandwidth among clients to ensure QoS (Quality of Service)
Paragon ProTran	Paragon's ProTran is a unique data transport protocol, specially optimized to run jobs over highly latent connections by automatically establishing multiple TCP/IP connections per job, which enables to significantly (up to 300%) boost performance of VM data transferring over WAN links
Multi-user Administration	Several users can simultaneously administer the infrastructure
Extra Windows PowerShell Console	For those, who are accustomed to automation scripts and command-line tools, the product additionally includes a Windows PowerShell-based console that provides even more functions than the GUI-console does
Protect & Restore Backup Server	
Supported Backup / Replica Storage	ESX datastores, local disks, NAS, SAN, FTP/SFTP
Data Retention Mechanism	Allows configuring special policies to determine backup lifespan and occupied space
Archiving to Second-tier Storage / Dual Protection	Implements the concept of dual protection, when at first target machines are quickly backed up or replicated to the primary storage, thus minimizing the impact on the production environment, and then these objects are copied (archived) to the secondary storage during the night or a weekend as scheduled
Backup Verification	Allows checking up integrity of any member of created incremental chains at any time to make sure backup data is not corrupted. During the checkup, all members of the given incremental chain become locked for access to avoid any interference
Storage Browser	For easier administration all storages are open for browsing. Having a list of all created backups and replicas at hand, you can easily find and initiate an integrity checkup for those you consider critical, or delete those you don't need any more, or initiate a restore operation
Notification & Reporting	
E-mail Notifications	Enables to set up email notification policies by a particular type of events or several types (errors, warnings, information, etc.) for an infrastructure component or activity you're interested in (backup or replica policies, etc.)
Effective Troubleshooting	Every user or service activity is journalized, which enables to pin-point roots of any encountered problem. For more efficient communication with Paragon's support team, there's Log Saver that allows easily collecting all or particular infrastructure logs
Deployment & Upgrade	
Unified Installation Package	Any infrastructure component can be installed on-site from one unified installation package
Remote Components Deployment (through Protect & Restore Console)	Once Protect & Restore Administration Server and Console are installed on-site, all other infrastructure components can be deployed remotely
Group Policy Support for Agent Deployment	There's the option to add any number of target machines to the infrastructure in one operation
Manual on-site Components Deployment	If having troubles with the remote deployment, you can initiate deployment of any component on-site
Workgroup Machines as Part of Infrastructure	Any workgroup machine on the net can be used as Backup Server, etc.
Automatic Connection of New Domain Machines	Enables to automatically add new domain machines to the infrastructure through a special service that monitors activities in Active Directory

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Easy Update / Upgrade

All infrastructure components except for Administration Server can be upgraded without restart, guaranteeing complete consistency of the infrastructure database

Security

User Group to Control Remote Access

Only members of a special group are allowed to administer the infrastructure

Configurable Ports

Default ports can be changed to comply with your corporate environment