PARAGON PROTECT & RESTORE
Keep your business running at all times

PARAGON SOFTWARE

DATASHEET

Paragon Protect & Restore is a centrally-managed scalable backup and disaster recovery solution for virtual and physical IT infrastructures of all sizes.

New generation of data backup solutions

- The solution combines data backup and disaster recovery **for virtual and physical servers** and workstations.

- Transparent backup management enables enterprises to store backups according to corporate requirements and archive them in **second-tier storage or in the cloud**.

- The administrator uses a **central management console** to manage relevant policies of all data backups, as well as their storage and archiving.

Features	Business Value
Universal system and data backup	
• Backup & restore of virtual guest systems • Backup & restore of physical Windows machines • Non-destructive backup of Microsoft Exchange databases • pVHD - combined data container	**Facilitate your operations** and greatly reduce IT overheads by employing an all-in-one solution for virtual and physical systems: less training, simple license management, single support address.
Business continuity	
• P2V launch backup • Recovery Media Builder • Continuous data backup (near CDP) • Migration to another ESX data storage • Support of different storage media	**Meet the strict requirements** for RTO (return to operation) and RPO (recovery point objectives) in disaster recovery policies.
Smooth integration with production environments	
• Backup data filtering • Leveraging Microsoft VSS • Traffic throttling • Intelligent load balancing • ESX bridge	**Run at maximum performance** even with resource-intensive applications running. Backup processes are accelerated with intelligent data filters. Agentless backups are performed directly within the VMware infrastructure. Intelligent Load Balancing distributes the load within a data backup structure.
Data security and consistency	
• VM launch backup • Encryption • Restore individual files • Change block tracking • Application-level backups	**Backup data validation and test failover** are the central functions of the solution. Launch Backup & Instant Restore reconstitute physical or virtual machines directly from the vSphere environment. Replica Test Failover checks whether the replica can seamlessly take over the job. 256-AES encryption algorithm prevents unauthorized access to backup files.

Easy control and monitoring

- Backup cycle planning
- Event-based reporting
- Log saver
- Remote deployment
- Scalability

User-friendly and easy backup management through the central console for administrator. Real-time statistics, event-based notifications and individual report settings. Detailed logs to detect and resolve issues on the fly.

Efficient storage utilization

- Incremental backup
- Deduplication
- Flexible archiving policies
- Wide range of storage media and locations
- Multi-layer storage infrastructure

Efficient use of available storage memory **saves your IT budgets and TCO.** Intelligent storage policies enable effective monitoring of backup retention time which directly affects memory reserves and storage capacity.

System Requirements

The essentials of Paragon Protect & Restore:
Administration/installation server, backup server, management consoles

Operating systems:
- Microsoft® Windows® XP SP3
- Windows Vista
- Windows 7
- Windows 8
- Windows 8.1
- Windows 10
- Windows 11
- Windows Server® 2003 SP2
- Windows Server 2008 R1/R2
- Windows Server 2012 R1/R2*
- Windows Server 2019
- Windows Server 2022

Architecture:
32/64 bit

Memory:
2GB RAM or higher

Processor:
x86/x64 CPU (at least 2 core / 4 core for backup server)

*Windows Server 2012 R2 or newer is required if any of agent computers are running Windows Server 2012 R2 or newer

Hard disk space:
- Administration/ installation server: 400 MB for installation
- Backup server: 200 MB for installation
- Console: 50 MB for installation

Services:
- Active WMI (Windows Management Instrumentation) service
- File and Printer Sharing enabled in the firewall settings to allow for default system shares on the local volumes (ADMIN$, C$, D$, etc.)

PPR ESX Bridge

Operating systems:
- Windows Server® 2003 SP2
- Windows Server 2008 R1/R2
- Windows Server 2012 R1/R2
- Windows Server 2019
- Windows Server 2022

Architecture:
- 64-bit processor
- x64 CPU (min. 2 core). Fast multicore processors boost data rates and allow a greater number of concurrent jobs.

Paragon Protect & Restore agents

Operating systems:
- Microsoft® Windows® XP SP3
- Windows Vista
- Windows 7
- Windows 8
- Windows 8.1
- Windows 10
- Windows 11
- Windows Server® 2003 SP2
- Windows Server 2008 R1/R2
- Windows Server 2012 R1/R2
- Windows Hyper-V Server 2012
- Windows Server 2019
- Windows Server 2022

Architecture:
32/64 bit

Memory:
2GB RAM or higher

Hypervisors:
- VMware® vSphere® 6.x, 5.5, 5.1, 5.0, 4.1, 4.0
- VMware ESX® and VMware ESXi™ 4.x, 5.x, 6.x
- Non-commercial VMware ESX**
- Microsoft Hyper-V 2008 R2 - 2012 R2
- Microsoft Exchange
- Exchange Server 2007
- Exchange Server 2010
- Exchange Server 2013
- Single-copy cluster support
- Cluster continuous replication support

**Windows OS guest systems which are hosted on non-commercial VMware ESX environments can only be backed up via a local backup agent. Other guest machines are not supported.