





## 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.

 <b>Features</b>	 <b>Business Value</b>
<b>Universal system and data backup</b>	
<ul style="list-style-type: none"> <li>• Backup &amp; restore of virtual guest systems</li> <li>• Backup &amp; restore of physical Windows machines</li> <li>• Non-destructive backup of Microsoft Exchange databases</li> <li>• pVHD - combined data container</li> </ul>	<p><b>Facilitate your operations</b> 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.</p>
<b>Business continuity</b>	
<ul style="list-style-type: none"> <li>• P2V launch backup</li> <li>• Recovery Media Builder</li> <li>• Continuous data backup (near CDP)</li> <li>• Migration to another ESX data storage</li> <li>• Support of different storage media</li> </ul>	<p><b>Meet the strict requirements</b> for RTO (return to operation) and RPO (recovery point objectives) in disaster recovery policies.</p>
<b>Smooth integration with production environments</b>	
<ul style="list-style-type: none"> <li>• Backup data filtering</li> <li>• Leveraging Microsoft VSS</li> <li>• Traffic throttling</li> <li>• Intelligent load balancing</li> <li>• ESX bridge</li> </ul>	<p><b>Run at maximum performance</b> 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.</p>
<b>Data security and consistency</b>	
<ul style="list-style-type: none"> <li>• VM launch backup</li> <li>• Encryption</li> <li>• Restore individual files</li> <li>• Change block tracking</li> <li>• Application-level backups</li> </ul>	<p><b>Backup data validation and test failover</b> are the central functions of the solution. Launch Backup &amp; 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.</p>



<b>Easy control and monitoring</b>	
<ul style="list-style-type: none"> <li>• Backup cycle planning</li> <li>• Event-based reporting</li> <li>• Log saver</li> <li>• Remote deployment</li> <li>• Scalability</li> </ul>	<p><b>User-friendly and easy backup management</b> 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.</p>
<b>Efficient storage utilization</b>	
<ul style="list-style-type: none"> <li>• Incremental backup</li> <li>• Deduplication</li> <li>• Flexible archiving policies</li> <li>• Wide range of storage media and locations</li> <li>• Multi-layer storage infrastructure</li> </ul>	<p>Efficient use of available storage memory <b>saves your IT budgets and TCO</b>. Intelligent storage policies enable effective monitoring of backup retention time which directly affects memory reserves and storage capacity.</p>

## 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 Server® 2003 SP2
- Windows Server 2008 R1/R2
- Windows Server 2012 R1/R2

#### Architecture:

32/64 bit

#### Memory:

2GB RAM or higher

#### Processor:

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

#### 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

#### 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 Server® 2003 SP2
- Windows Server 2008 R1/R2
- Windows Server 2012 R1/R2
- Windows Hyper-V Server 2012

#### 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
- 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.