




































































**Important note on the game rules:** only features from currently available release can be included in the comparison. Next versions' planned features cannot be added to comparison for either product. This is critical because some competitive companies like to mislead customers by saying "our next version will also have this" in competitive situations *for years* and still never deliver, constantly missing the promised release dates.




Feature	Veeam Backup	vRanger Pro	Notes
<b>ESX editions supported</b>			
ESX			
ESXi			vRanger requires VCB for backup (mandatory).
ESXi Free			Veeam Backup: industry first to fully support all ESXi edition including free.
<b>Backup</b>			
VCB integrated backup			
VCB safe integration			vRanger inject their own code into VCB libraries, so VCB framework is no longer 100% VMware code. This raises questions on supportability and makes integration affected by VCB patches because they change binary structure of VCB modules.
Network backup (agent)			Both products use similar approach to perform agent-based network backup.
Network backup (agentless)			Agentless backup requires to support ESXi that has service console access restricted, and provides better stability and performance with full ESX due to no 3 <sup>rd</sup> party agents running in the service console.
VM templates backup			Veeam Backup: your VM templates are automatically protected from storage disaster along with regular VMs.
Automatic retry of failed jobs			Veeam Backup: during the retry cycle, only VMs failed during the main cycle are processed. Alternate data access mechanism with granular block-level retry is leveraged during retry cycles, allowing you to perform network backup over unreliable network connections.
Backup engine	Synthetic	Full + Differential	Synthetic engine allows for faster on-going backup (no more full backups), and for the fastest possible full VM restore due to latest VM state always available as a full, ready-to-restore backup.

<b>Replication</b>			
Built-in replication			Available in separate product (vReplicator) – licensed separately and per VM.
Replica rollback			vReplicator lacks the important capability of supporting rollback to an earlier point in time, which is a “must have” functionality for protection against software corruption.
File level restore from replica			vReplicator provides no file-level restore functionality whatsoever.
VCB Integrated replication			vReplicator does not support fetching source VM data through VCB, thus presenting additional significant load on the source, production ESX host.
Network replication (agent)			Both products use similar approach to perform agent-based replication.
Network replication (agentless)			Veeam Backup supports agentless connection to source ESX host only for replication. vReplicator does not support agentless connection to ESX host at all.
<b>File Management</b>			
Built-in file management			Veeam FastSCP, number one Windows/Linux/ESX file manager used by over 60000 VMware professionals is built-into Veeam Backup. Veeam Backup license makes it fully supported, unlike the free version.
<b>Full VM Restore</b>			
Restore time			To restore a full VM with vRanger Pro, you need to first restore an older full backup, and then apply differential data. This two-step process results in longer restore times than synthetic backup provides, especially when full backup and incremental data are spread across different tapes/disks (as it usually happens).
Restore network backups to ESXi			vRanger Pro does not support restoring network backups to ESXi hosts. Only VCB backups can be restored to such hosts.
<b>File Level Restore (FLR)</b>			
Restore guest files directly from backup image			vRanger Pro requires that full VM image is extracted from backup file before file level restore can be performed. This renders file-level restore useless since extracting VM from backup may take hours for large VMs. Per vRanger Pro user guide, backup extraction speed is around 1Gb per minute. Extracting a single 1MB file from 500GB backup requires 500GB of free disk space and takes 8 hours to mount it.

Windows FLR support			While vRanger Pro does support file level recovery of Windows VMs, it requires backup to be extracted to disk first - this can take hours (see the previous bullet).
Linux FLR support			Veeam Backup supports all major Linux file systems.
Other OS FLR support			Veeam Backup also support some Unix, BSD and Mac file systems. For complete and up-to-date list, please refer to the release notes document of the latest plug-in version.
<b>Engine</b>			
Built-in de-duplication			De-duplication brings significant storage costs savings.
Network traffic compression			Helps to improve any network operations significantly.
Reliable backend database			vRanger uses Microsoft Access which is not transactional like Microsoft SQL and often results in configuration data corruption (multiple <a href="#">issues reported</a> on Vizioncore forums).
Backup performance			Veeam Backup is up to 2-3 times faster on the same hardware in all modes according to feedback from evaluators, allowing for much smaller backup window.
<b>Backup/replica consistency</b>			
Complete VSS integration			vRanger does not implement VSS support properly, leveraging only VSS freeze functionality, but not performing VSS aware restore, which results in improper restore of some applications. For more information, refer to <a href="#">this test</a> results.
Windows 2008 VSS support			Veeam Backup is the only vendor supporting support application-level quiescence on Windows 2008.
.NET framework required on VM			Unlike vRanger, Veeam Backup does not require .NET framework on VM and works out of box on clean OS installations.
Persistent VM agent required			Unlike vRanger, Veeam Backup does not require persistent agent for VSS support. Veeam Backup VSS agent is very small and is installed only during VSS processing. After backup is finished, it is removed from VM immediately. Thus, most of the time your VM runs clean without any 3 <sup>rd</sup> party agents that may potentially affect performance and stability.
<b>User interface</b>			
Enterprise-scale UI			vRanger Pro user interface is not suitable for an enterprise customer (see <a href="#">InfoWeek review</a> ). No job management, no way to save custom settings, no real-time job statistics, heavy use of console windows.

Advanced centralized scheduling			vRanger relies on Windows scheduler service
<b>Development profile</b>			
Healthy release history			<p>Veeam Backup: 3 major releases for the past 1.5 years. The 1.0 version was released just 1 year ago – and 3.0 version is already a recognized industry leader.</p> <p>vRanger Pro: no major releases for the past 1.5 years. ESXi support initially promised to be available Q2 '08 – finally delivered Q1'09 as limited (no ESXi free support), and very bad quality – big update is coming. vRanger Pro 4.0 <a href="#">first announced</a> to become generally available in Q4'08 – still not released and not expected for the next few months.</p>
Stable development team			Vizioncore is struggling to integrate into the parent company. Lost most of the team from original company (before acquisition). New management.

### Legend

-  Available
-  Partially available
-  Not available