

Veeam Software Solution Product Guide

Product Guide

Veeam and Lenovo have been partners for over three years. Together we provide state-of-the-art backup and disaster recovery solutions that leverage Veeam's industry leading software and Lenovo ThinkSystem and ThinkAgile infrastructure. Built with proven Lenovo innovation, Lenovo ThinkSystem servers and ThinkAgile appliances extend Veeam's data management solution so customers can address real-world requirements such as Ransomware attack recovery, disaster recovery and critical data backup.

Lenovo and Veeam accelerate digital transformation by giving organizations the flexibility to deploy, backup, archive, and recover applications and data anywhere the business demands - in the data center, in remote office locations and into the public cloud, enabling simplifying IT, reducing risk, lowering costs and increasing ROI.

Lenovo has proven experience in developing and delivering Veeam-based solutions that help customers modernize and simplify their IT infrastructure to dramatically improve backup and recovery for physical and virtual workloads both on-prem and cloud based.



Did you know?

Veeam has been named as a leader in the Gartner magic quadrant for Backup and Recovery for several years in a row. With over 170 industry awards, more than 375K customers worldwide rely on the Veeam software to protect their data, and the Veeam's customer satisfaction score is more than 3.5 times higher than the industry average.

Why buy Veeam licenses from Lenovo?

The Veeam Availability Platform combined with best-in-class data center infrastructure and software-defined solutions from Lenovo, enables businesses of all sizes to accelerate digital transformation, simplify IT, reduce risk, lower costs and enhance business agility.

Veeam's integration with Lenovo data center infrastructure, including hyperconverged infrastructure, storage, and bare-metal servers provides customers with data protection for mission critical workloads across hybrid cloud environments. In addition to delivering scalable performance and Always-On Availability, Lenovo and Veeam enable organizations to accelerate innovation through intelligent data management.

By simplifying application performance and availability for multi-cloud workloads, Lenovo and Veeam provide the following key benefits:

- Simplified IT. Less time spent on IT operations and more time spent helping the business transform.
- Lower costs. Improved data center efficiencies combined with the flexibility to leverage the economies of scale of public cloud infrastructure without compromising performance or availability.
- Increased ROI. Accelerated business innovation through Intelligent Data Management by leveraging Veeam DataLabs with secondary Lenovo storage for DevTest, data analytics and DR compliance testing.

Lenovo offers various types and forms of Veeam products including perpetual licenses and annual subscriptions so organizations and partners can leverage best in class Lenovo servers to build agile IT infrastructure that is reliable, secure, and high performing with payment flexibility. Choosing a Veeam OEM subscription from Lenovo for most customers is the simplest and most cost-effective approach.

Lenovo's leadership in reliability, customer satisfaction, and performance, combined with Veeam's reputation in backup software and data management, continues to deliver innovative data-center solutions and lower total cost of ownership for our joint customers.

Lenovo Data Center solutions and the Veeam Availability Platform combine to deliver the simplicity, performance and agility needed to meet the explosive demand for data in today's mobile, Always-On world. With Lenovo, customers have access to decades of datacenter expertise, industry leading support services and the option to leverage Lenovo consultative, professional, and managed service offerings.

Veeam Backup / Disaster Recovery Products

This section describes the Veeam subscriptions and perpetual licenses available from Lenovo. Products are sold with either Public Sector (Education, Government) or Commercial options.

- **Veeam Availability Suite Universal License Subscription:** This subscription includes the Enterprise Plus feature set for Availability Suite. Enterprise Plus includes WAN acceleration and Storage Snapshot backup. These universal licenses are sold in bundles of 10 instances that can be applied to Virtual Machines, Servers or Workstation agents. App plug-ins for SAP/Oracle along with NAS capabilities are included. NAS is limited to 500GB per instance.
- **Veeam Backup and Replication Universal License Subscription:** This subscription includes the Enterprise Plus feature set for Backup and Replication. These universal licenses are sold in bundles of 10 instances that can be applied to Virtual Machines, Servers or Workstation agents. App plug-ins for SAP/Oracle along with NAS capabilities are included. NAS is limited to 500GB per instance.
- **Veeam Availability Suite Enterprise Plus Perpetual License:** This perpetual license comes bundled with 1, 3 or 5-year Production Level support options in a single SKU. These are sold per server socket. This includes the feature set of Backup and Replication plus Veeam ONE, backup from Storage Snapshots and an on-demand Sandbox.

- **Veeam Backup and Replication Enterprise Plus Perpetual License:** This perpetual license is a mainstay of the Veeam portfolio. This VBR license comes in 1, 3 and 5-year bundles that include Production Level support in a single SKU. This license is sold per server socket. This offer includes backup from Storage Snapshots, on-demand Sandbox and SAP/Oracle plugins.
- **Veeam Availability Suite Perpetual Universal License:** This is the same as the perpetual license version but comes in groups of 10 instances, versus per socket. This includes the feature set of Backup and Replication plus Veeam ONE, backup from Storage Snapshots and an on-demand Sandbox.
- **Veeam Backup and Replication Perpetual Universal License:** This perpetual license is like the per socket license but comes in groups of 10 instances. This VBR license comes in 1, 3 and 5-year bundles that include Production Level support in a single SKU. This offer includes backup from Storage Snapshots, on-demand Sandbox and SAP/Oracle plugins.
- **Veeam Office 365 Backup Subscription:** This subscription backs up Microsoft Office 365 user data and is sold in blocks of 10 instances. These are available in 1, 3 and 5-year bundles that include Product Level support.

Customers can quote Veeam subscriptions or licenses from Lenovo through the Data Center Solution Configurator (DCSC) using either guided configurations (CTO) or by selecting standalone part numbers (BTO).

- **DCSC CTO (Configure to Order)** – found in the DCSC tool under “OS and Software”
- **DCSC BTO (Build to Order)** – found in the DCSC tool under “OS and Software”

When ordered via BTO please note any restrictions such as the VBO for Office 365 is listed by unit but must be purchased in groups of 10 units.

Table 1. Veeam Universal License Subscriptions

Subscription	Licensing model	Notes
Veeam Universal License Subscription	Instance-based	Per instance; sold in groups of 10
Veeam Perpetual Licenses	Processor-based	Per socket; sold per license
Veeam Backup Office 365 Subscription	User-based	Per user; sold in groups of 10

Table 2. Veeam Subscription Feature Codes

Description	Charge Metric	Lenovo Part Number (LFO)	Lenovo Feature Code
Veeam Availability Suite Universal License. Includes Enterprise Plus Edition features - 1 Year Subscription Upfront Billing & Production (24/7) Support	10 instances	7S0L0027WW	S2GU
Veeam Availability Suite Universal License. Includes Enterprise Plus Edition features - 1 Year Subscription Upfront Billing & Production (24/7) Support- Public Sector	10 Instances	7S0L0028WW	S2GV
Veeam Availability Suite Universal License. Includes Enterprise Plus Edition features - 3 Years Subscription Upfront Billing & Production (24/7) Support	10 instances	7S0L0029WW	S2GW
Veeam Availability Suite Universal License. Includes Enterprise Plus Edition features - 3 Years Subscription Upfront Billing & Production (24/7) Support-Public Sector	10 Instances	7S0L002AWW	S2GX

Description	Charge Metric	Lenovo Part Number (LFO)	Lenovo Feature Code
Veeam Availability Suite Universal License. Includes Enterprise Plus Edition features - 5 Years Subscription Upfront Billing & Production (24/7) Support	10 instances	7S0L002BWW	S2GY
Veeam Availability Suite Universal License. Includes Enterprise Plus Edition features - 5 Years Subscription Upfront Billing & Production (24/7) Support-Public Sector	10 Instances	7S0L002CWW	S2GZ
Veeam Backup & Replication Universal License. Includes Enterprise Plus Edition features. - 1 Year Subscription Upfront Billing & Production (24/7) Support	10 instances	7S0L002EWW	S2H1
Veeam Backup & Replication Universal License. Includes Enterprise Plus Edition features. - 1 Year Subscription Upfront Billing & Production (24/7) Support- Public Sector	10 Instances	7S0L002FWW	S2H2
Veeam Backup & Replication Universal License. Includes Enterprise Plus Edition features. - 3 Years Subscription Upfront Billing & Production (24/7) Support	10 instances	7S0L002GWW	S2H3
Veeam Backup & Replication Universal License. Includes Enterprise Plus Edition features. - 3 Years Subscription Upfront Billing & Production (24/7) Support-Public Sector	10 Instances	7S0L002HWW	S2H4
Veeam Backup & Replication Universal License. Includes Enterprise Plus Edition features. - 5 Years Subscription Upfront Billing & Production (24/7) Support	10 instances	7S0L002JWW	S2H5
Veeam Backup & Replication Universal License. Includes Enterprise Plus Edition features. - 5 Years Subscription Upfront Billing & Production (24/7) Support-Public Sector	10 Instances	7S0L002KWW	S2H6
Veeam Backup for Microsoft Office 365 1 Year Subscription Upfront Billing License & Production (24/7) Support (Minimum of 10)	Per User, Min of 10	7S0L0013WW	S1C7
Veeam Backup for Microsoft Office 365 1 Year Subscription Upfront Billing License & Production (24/7) Support- Public Sector (Minimum of 10)	Per User, Min of 10	7S0L0014WW	S1C8
Veeam Backup for Microsoft Office 365 3 Year Subscription Upfront Billing License & Production (24/7) Support (Minimum of 10)	Per User, Min of 10	7S0L0015WW	S1C9
Veeam Backup for Microsoft Office 365 3 Year Subscription Upfront Billing License & Production (24/7) Support - Public Sector (Minimum of 10)	Per User, Min of 10	7S0L0016WW	S1CA
Veeam Backup for Microsoft Office 365 5 Year Subscription Upfront Billing License & Production (24/7) Support (Minimum of 10)	Per User, Min of 10	7S0L0017WW	S1CB
Veeam Backup for Microsoft Office 365 5 Year Subscription Upfront Billing License & Production (24/7) Support - Public Sector (Minimum of 10)	Per User, Min of 10	7S0L0018WW	S1CC

Table 3. Veeam Perpetual License Feature Codes

Type	Description	Charge Metric	Lenovo Part Number (LFO)	Lenovo Feature Code
Perpetual License	Veeam Availability Suite Enterprise Plus with 1 year of production support included	Per Socket Perp. License	7S0L0001WW	S1AZ

Type	Description	Charge Metric	Lenovo Part Number (LFO)	Lenovo Feature Code
Perpetual License	Veeam Availability Suite Enterprise Plus - Public Sector with 1 year of production support included	Per Socket Perp. License	7S0L0004WW	S1B2
Perpetual License	Veeam Availability Suite Enterprise Plus with 3 years of production support included	Per Socket Perp. License	7S0L0002WW	S1S0
Perpetual License	Veeam Availability Suite Enterprise Plus - Public Sector with 3 years of production support included	Per Socket Perp. License	7S0L0005WW	S1B3
Perpetual License	Veeam Availability Suite Enterprise Plus with 5 years of production support included	Per Socket Perp. License	7S0L0003WW	S1S1
Perpetual License	Veeam Availability Suite Enterprise Plus - Public Sector with 5 years of production support included	Per Socket Perp. License	7S0L0006WW	S1B4
Perpetual License	Veeam Backup & Replication Enterprise Plus with 1 year of production support included	Per Socket Perp. License	7S0L000DWW	S1BD
Perpetual License	Veeam Backup & Replication Enterprise Plus - Public Sector with 1 year of production support included	Per Socket Perp. License	7S0L000GWW	S1BG
Perpetual License	Veeam Backup & Replication Enterprise Plus with 3 years of production support included	Per Socket Perp. License	7S0L000EWW	S1BE
Perpetual License	Veeam Backup & Replication Enterprise Plus - Public Sector with 3 years of production support included	Per Socket Perp. License	7S0L000HWW	S1BH
Perpetual License	Veeam Backup & Replication Enterprise Plus with 5 years of production support included	Per Socket Perp. License	7S0L000FWW	S1BF
Perpetual License	Veeam Backup & Replication Enterprise Plus - Public Sector with 5 years of production support included	Per Socket Perp. License	7S0L000JWW	S1BJ
Perpetual License	Veeam Availability Suite Universal Perpetual License. Includes Enterprise Plus Edition features - The 1st year of Production (24/7) Support is included.	10 Instances	7S0L002TWW	S4T0
Perpetual License	Veeam Availability Suite Universal Perpetual License. Includes Enterprise Plus Edition features - The 1st year of Production (24/7) Support is included. - Public Sector	10 Instances	7S0L002UWW	S4T1
Perpetual License	Veeam Availability Suite Perpetual Universal License with 3 years of production support included.	10 Instances	7S0L002VWW	S4T2
Perpetual License	Veeam Availability Suite Perpetual Universal License with 3 years of production support included. - Public Sector	10 Instances	7S0L002WWW	S4T3
Perpetual License	Veeam Availability Suite Perpetual Universal License with 5 years of production support included.	10 Instances	7S0L002XWW	S4T4
Perpetual License	Veeam Availability Suite Perpetual Universal License with 5 years of production support included. - Public Sector	10 Instances	7S0L002YWW	S4T5
Perpetual License	Veeam Backup & Replication Universal Perpetual License. Includes Enterprise Plus Edition features - The 1st year of Production (24/7) Support is included.	10 Instances	7S0L002ZWW	S4T6
Perpetual License	Veeam Backup & Replication Universal Perpetual License. Includes Enterprise Plus Edition features - The 1st year of Production (24/7) Support is included. - Public Sector	10 Instances	7S0L0030WW	S4T7
Perpetual License	Veeam Backup & Replication Perpetual Universal License with 3 years of production support included.	10 Instances	7S0L0031WW	S4T8
Perpetual License	Veeam Backup & Replication Perpetual Universal License with 3 years of production support included. - Public Sector	10 Instances	7S0L0032WW	S4T9

Type	Description	Charge Metric	Lenovo Part Number (LFO)	Lenovo Feature Code
Perpetual License	Veeam Backup & Replication Perpetual Universal License with 5 years of production support included.	10 Instances	7S0L0033WW	S4TA
Perpetual License	Veeam Backup & Replication Perpetual Universal License with 5 years of production support included. - Public Sector	10 Instances	7S0L0034WW	S4TB

Veeam Management Products

This section provides information on Veeam licenses and subscriptions for management tools such as Veeam ONE and the Veeam Disaster Recovery Orchestrator (DRO), formerly known as Veeam Availability Orchestrator.

For IT professionals with performance is a primary concern, Veeam ONE and Availability Orchestrator provide capabilities to build high performance datacenter backup environments.

- **Veeam ONE:** This is management tool that enables integration into Microsoft Hyper-V and VMware vSphere. This is offered as a perpetual license in 1, 3 and 5-year bundles that include Production Level support.
- **Veeam Disaster Recovery Orchestrator.** This tool, formerly called Veeam Availability Orchestrator, offers a comprehensive data management tool for backups from on-prem and Cloud environments.

Table 4. Veeam Management Software Feature Codes

License type	Description	Charge Metric	Lenovo Part Number (LFO)	Lenovo Feature Code
Subscriptions	Veeam Disaster Recovery Orchestrator. 1 Year Subscription Upfront Billing & Production (24/7) Support.	10 Instances	7S0L003FWW	S5V7
Subscriptions	Veeam Disaster Recovery Orchestrator. 1 Year Subscription Upfront Billing & Production (24/7) Support. Public Sector.	10 Instances	7S0L003GWW	S5V8
Subscriptions	Veeam Disaster Recovery Orchestrator. 2 Years Subscription Upfront Billing & Production (24/7) Support.	10 Instances	7S0L003HWW	S5V9
Subscriptions	Veeam Disaster Recovery Orchestrator. 2 Years Subscription Upfront Billing & Production (24/7) Support. Public Sector.	10 Instances	7S0L003JWW	S5VA
Subscriptions	Veeam Disaster Recovery Orchestrator. 3 Years Subscription Upfront Billing & Production (24/7) Support.	10 Instances	7S0L003KWW	S5VB
Subscriptions	Veeam Disaster Recovery Orchestrator. 3 Years Subscription Upfront Billing & Production (24/7) Support. Public Sector.	10 Instances	7S0L003LWW	S5VC
Subscriptions	Veeam Disaster Recovery Orchestrator. 4 Years Subscription Upfront Billing & Production (24/7) Support.	10 Instances	7S0L003MWW	S5VD
Subscriptions	Veeam Disaster Recovery Orchestrator. 4 Years Subscription Upfront Billing & Production (24/7) Support. Public Sector.	10 Instances	7S0L003NWW	S5VE

License type	Description	Charge Metric	Lenovo Part Number (LFO)	Lenovo Feature Code
Subscriptions	Veeam Disaster Recovery Orchestrator. 5 Years Subscription Upfront Billing & Production (24/7) Support.	10 Instances	7S0L003PWW	S5VF
Subscriptions	Veeam Disaster Recovery Orchestrator. 5 Years Subscription Upfront Billing & Production (24/7) Support. Public Sector.	10 Instances	7S0L003QWW	S5VG
Perpetual License	Veeam ONE with 1 year of production support included	Per Socket Perp. License	7S0L000XWW	S1CO
Perpetual License	Veeam ONE - Public Sector with 1 year of production support included	Per Socket Perp. License	7S0L0010WW	S1C3
Perpetual License	Veeam ONE with 3 years of production support included	Per Socket Perp. License	7S0L000YWW	S1C1
Perpetual License	Veeam ONE - Public Sector with 3 years of production support included	Per Socket Perp. License	7S0L0011WW	S1C4
Perpetual License	Veeam ONE with 5 years of production support included	Per Socket Perp. License	7S0L000ZWW	S1C2
Perpetual License	Veeam ONE - Public Sector with 5 years of production support included	Per Socket Perp. License	7S0L0012WW	S1C5

Veeam License Upgrades

This section provides information on upgrade SKUs for customers who would like to add capabilities and upgrade to more feature rich licenses or subscriptions.

- **Upgrade from VASENT to VASPLS.** This allows customers to upgrade from Veeam Availability Suite Enterprise edition to Enterprise Plus edition. This is sold per socket.
- **Upgrade from VBRPLS to VASPLS.** This allows customers to upgrade from Veeam Backup and Replication Enterprise Plus to Veeam Availability Suite Enterprise Plus licenses. This is sold per socket.
- **Upgrade from VBRENT to VASPLS.** This allows customers to upgrade from Veeam Backup and replication Enterprise edition to Veeam Availability Suite Enterprise Plus edition. This is sold per socket.
- **Upgrade from VBRSTD to VASPLS.** This allows customers to upgrade from Veeam Backup and Replication Standard edition to Veeam Availability Suite Enterprise Plus edition. This is sold per socket.
- **Upgrade from Veeam ONE to VASPLS.** This allows customers to upgrade from Veeam ONE to Veeam Availability Suite Enterprise Plus edition. This is sold per socket.

Table 5. Veeam Upgrade Feature Codes

Description	Charge Metric	Lenovo Part Number (LFO)	Lenovo Feature Code
Upgrade from Veeam Availability Suite Enterprise to Veeam Availability Suite Enterprise Plus	Per Socket	7S0L0035WW	S4TC
Upgrade from Veeam Availability Suite Enterprise to Veeam Availability Suite Enterprise Plus - Public Sector	Per Socket	7S0L0036WW	S4TD
Upgrade from Veeam Backup & Replication Enterprise Plus to Veeam Availability Suite Enterprise Plus	Per Socket	7S0L0037WW	S4TE
Upgrade from Veeam Backup & Replication Enterprise Plus to Veeam Availability Suite Enterprise Plus - Public Sector	Per Socket	7S0L0038WW	S4TF
Upgrade from Veeam Backup & Replication Enterprise to Availability Suite Enterprise Plus	Per Socket	7S0L0039WW	S4TG
Upgrade from Veeam Backup & Replication Enterprise to Availability Suite Enterprise Plus - Public Sector	Per Socket	7S0L003AWW	S4TH
Upgrade from Veeam Backup & Replication Standard including Veeam ONE to Veeam Availability Suite Enterprise Plus Upgrade	Per Socket	7S0L003BWW	S4TJ
Upgrade from Veeam Backup & Replication Standard including Veeam ONE to Veeam Availability Suite Enterprise Plus Upgrade - Public Sector	Per Socket	7S0L003CWW	S4TK
Upgrade from Veeam ONE to Veeam Availability Suite Enterprise Plus	Per Socket	7S0L003DWW	S4TL
Upgrade from Veeam ONE to Veeam Availability Suite Enterprise Plus - Public Sector	Per Socket	7S0L003EWW	S4TM

Sizing for Veeam Universal License Subscriptions

This section provides information on how to size the Veeam Availability Suite and Backup and Replication **Universal License Subscriptions**. These are sold in groups of 10 instances. Each instance can be assigned to a VM, Server or Workstation. Veeam offers a single universal license “instance” that consumes one protected workload. Every workload type, whether it’s a VM, a cloud VM, physical server, application server, or a front-end capacity pack for NAS, will be one workload per instance.

A workload can be a VM, physical server, enterprise application, cloud VM or a file share. With VUL, customers can use the licenses to protect any workload they need, since the licenses are portable. Customers purchase licenses, sold in minimum quantities of 10 licenses, and can use those licenses to protect various workloads.

The number of licenses generally needed equates to the number of workloads you are looking to protect. Most workloads require just one license instance. An exception is when you’re protecting workstations or endpoints, where one license will protect three workstations. One VUL license will also protect 500 GB of NAS file capacity, or two licenses per TB.

The best way to see how many licenses you need is with our VUL configurator. Select the product, enter your workloads and your term of your choice.

Backup required for the following network:

- Single host 2-socket x86 server (1 instance)
- 15 Virtual Machines (15 instances)
- 20 Workstations (7 instances)

In this case, the required number of VAS or VBR Universal License subscriptions would be 3. You would need 23 instances and the subscriptions are sold in blocks of 10 units. Therefore, you will need to purchase 3 VASVUL or VBRVUL subscriptions.

Veeam and ThinkSystem DE & DM Storage

Veeam is fully integrated to the Lenovo DM ONTAP management system. This provides both powerful and affordable backup storage options. Lenovo ThinkSystem DM Series storage snapshot copies provide a number of advantages: You can use them for “point-in-time” recovery and create a large number of restore points frequently, without impacting production workloads—even during working hours. You can also use these snapshot copies to protect data in certain disaster scenarios. You can replicate them to a secondary, often remote storage system for disaster recovery by using Lenovo DM Series SnapMirror® replication technology, or back up and archive them by using Lenovo SnapVault® software. In short, Lenovo storage snapshot technology combines performance, scalability, and efficient storage utilization to deliver fantastic RPOs.

Lenovo and Veeam have partnered to integrate support for Lenovo storage snapshot technology into the Veeam Availability Suite. This integration provides customers with a deeper level of protection and availability across Lenovo ThinkSystem DM Series, and Lenovo ThinkSystem DE Series storage platforms. Integration of Veeam Backup & Recovery with Lenovo storage snapshot technology allows you to achieve:

- Faster backups. Back up VMware virtual machines (VMs) directly from Lenovo storage snapshot copies.
- Quick recovery. Recover entire VMs or individual items from Lenovo storage snapshot, and SnapMirror software.
- Improved protection. Create instant secondary backups from Lenovo storage snapshot copies.

Lenovo DE-Series storage provides simple and reliable SAN storage that integrates seamlessly with most application environments. Its modular design helps decrease operating expenses while offering many options for connectivity, capacity, and performance that easily scale to meet the demands of a growing backup environment.

Lenovo DE-Series and Veeam Backup & Replication combine to offer a data protection and availability solution through tested reference architectures. This solution is optimized for virtual environments, providing disk-to-disk backup and recovery on high-capacity, flexible, performance-oriented Lenovo DE-Series storage arrays. This solution provides you with superior data management for virtual environments and high availability while also making your data highly available.

Lenovo DE-Series arrays provide a high-performing backup repository to house Veeam-created backups. With this capability, the recovery technologies that are enabled through Veeam can satisfy stringent RTOs. Recovery technologies such as instant VM recovery, SureBackup, and on-demand sandbox can leverage backup repositories that are capable of high I/O to achieve their full potential.

These technologies enable you to restore from your backups faster and also enable capabilities such as automated recovery verification. The technologies can also leverage backup data as an ad hoc testing environment. This capability changes the way that users have used backups in the past because more benefits are associated with having backups. No longer do backups sit idle, waiting for an emergency restore; you can apply your backups for many creative uses.

Features include:

- Recovery of a failed VM in as little as two minutes
- Near-continuous data protection with built-in replication
- Fast, agentless item recovery and e-discovery for Microsoft Exchange, SharePoint, and Active Directory, along with transaction-level recovery of SQL Server databases
- Automatic recoverability testing of every backup and every replica, every time
- Off-site backups made up to 50 times faster than the speed of standard file copy with built-in WAN acceleration
- Fast and secure cloud backups with Veeam Cloud Connect
- Deduplication and compression to minimize storage consumption
- Off-site recovery with one-click site failover and support for facilitated data center migrations with zero data loss

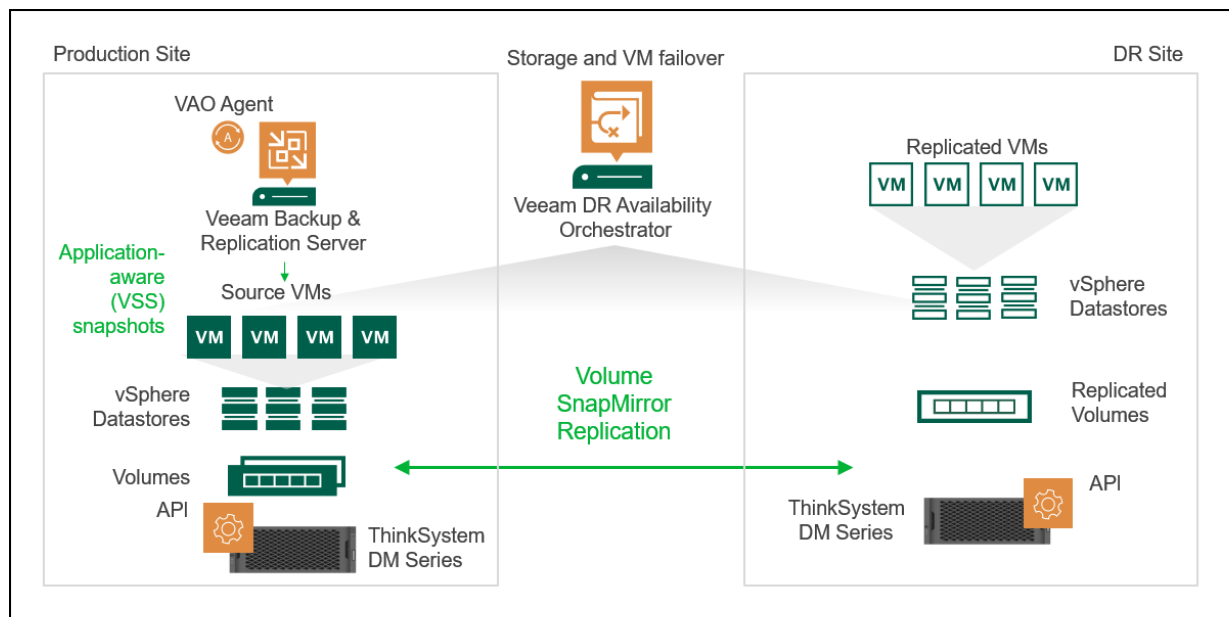


Figure 1. Veeam and Lenovo ThinkSystem DE & DM Storage

For more information on Lenovo ThinkSystem DE and DM, go to <https://www.lenovo.com/storage>

Veeam and ThinkAgile Hyperconverged

This section provides information on Veeam integration with Lenovo ThinkAgile solutions.

ThinkAgile HX

This solution delivers a complete hyperconverged infrastructure with ThinkAgile HX and ThinkSystem DE series storage that integrates Veeam enterprise-class Backup & Recovery software to deliver instant data and VM recovery for Nutanix business critical applications while streamlining the deployment, management, and scaling of datacenter resources.

Veeam and Lenovo DE Series hybrid flash gives organizations a high-speed storage repository that scales-up to meet the backup and recovery needs of growing application environments and native Veeam data deduplication and compression to keep backup costs in check. Veeam Backup & Replication capabilities also provide a cost-effective way to ensure DR by providing the flexibility to use DE Series as a DR replication target for third party storage systems.

The advantages of Veeam and ThinkAgile HX together include:

- Veeam and Nutanix have completed significant integration testing with Acropolis virtualization.
- Lenovo is one of the largest resellers of Nutanix hyperconverged with both appliances and certified node options.

For more information, see the ThinkAgile HX product web page:

<https://www.lenovo.com/us/en/data-center/software-defined-infrastructure/ThinkAgile-HX-Series/p/WMD00000326>

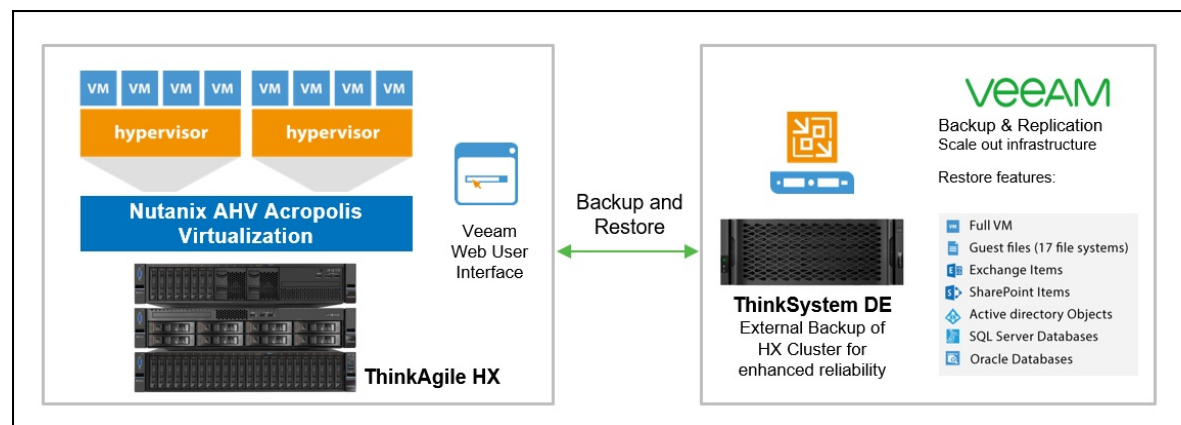


Figure 2. Veeam and ThinkAgile HX

ThinkAgile VX

The data center is changing. The shift to adopting Hyper-Converged Infrastructure (HCI) does not change the desire of enterprises to enable a fully automated, zero-downtime infrastructure for any application or hardware, now and in the future. The change is all about service agility and driving down cost. In short, it is about maximizing data center ROI. However, with this shift, data centers are becoming more difficult to manage and protect as more data and applications are moved into virtual software-defined environments. When modernizing production, you must also modernize protection.

Combining Veeam software and VMware SDDC technologies provides the only modern data protection and Availability solution designed to enable enterprises of all sizes the ability to unlock value for their business. Veeam and ThinkAgile VX create a hyper-converged, flash-optimized storage architecture where performance and capacity can be scaled to maintain the Availability requirements facing today's enterprises. It's an agile solution that's ready for future hardware, cloud and application changes.

The advantages of Veeam and ThinkAgile VX together include:

- Allows customers to deploy a more integrated, highly efficient and cost-effective Availability solution for their vSAN environment. Veeam provides Lenovo VX customers:
- The ability to expand capacity and performance on demand
- Storage Policy-Based Management (SPBM) backup and restore to recover entire VMs, individual files and application items in minutes
- End-to-end AES 256-bit encryption to secure backup files and data at the source in flight and at rest
- Built-in deduplication and compression to reduce storage and bandwidth
- Deep monitoring of vSAN through Veeam Management Pack for System Center
- A VMware Ready for vSAN solution designed and optimized specifically for the VMware platform

For more information on ThinkAgile VX, go to the ThinkSystem VX product web page:
<https://www.lenovo.com/us/en/data-center/software-defined-infrastructure/ThinkAgile-VX-Series/p/WMD00000340>

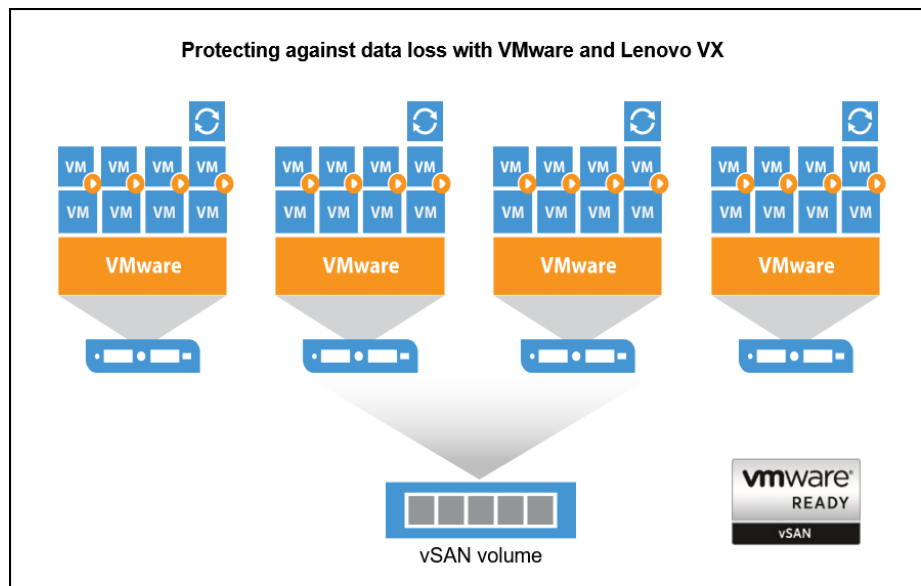


Figure 3. Veeam and ThinkAgile VX

Veeam Master SKU Mapping

This section provides a mapping of Lenovo Part Number, Lenovo Feature Code and Veeam Part Number.

Table 6. Veeam Lenovo Part Number Mapping

Lenovo Part Number (LFO)	Veeam Part Number	Lenovo CTO	Lenovo Feature Code (LSF)
7S0L0027WW	V-VASVUL-0I-SU1YP-00	7S0LCTO2WW	S2GU
7S0L0028WW	P-VASVUL-0I-SU1YP-00	7S0LCTO2WW	S2GV
7S0L0029WW	V-VASVUL-0I-SU3YP-00	7S0LCTO2WW	S2GW
7S0L002AWW	P-VASVUL-0I-SU3YP-00	7S0LCTO2WW	S2GX
7S0L002BWW	V-VASVUL-0I-SU5YP-00	7S0LCTO2WW	S2GY
7S0L002CWW	P-VASVUL-0I-SU5YP-00	7S0LCTO2WW	S2GZ
7S0L002EWW	V-VBRVUL-0I-SU1YP-00	7S0LCTO2WW	S2H1

Lenovo Part Number (LFO)	Veeam Part Number	Lenovo CTO	Lenovo Feature Code (LSF)
7S0L002FWW	P-VBRVUL-0I-SU1YP-00	7S0LCTO2WW	S2H2
7S0L002GWW	V-VBRVUL-0I-SU3YP-00	7S0LCTO2WW	S2H3
7S0L002HWW	P-VBRVUL-0I-SU3YP-00	7S0LCTO2WW	S2H4
7S0L002JWW	V-VBRVUL-0I-SU5YP-00	7S0LCTO2WW	S2H5
7S0L002KWW	P-VBRVUL-0I-SU5YP-00	7S0LCTO2WW	S2H6
7S0L0013WW	V-VBO365-0U-SU1YP-00	7S0LCTO2WW	S1C7
7S0L0014WW	P-VBO365-0U-SU1YP-00	7S0LCTO2WW	S1C8
7S0L0015WW	V-VBO365-0U-SU3YP-00	7S0LCTO2WW	S1C9
7S0L0016WW	P-VBO365-0U-SU3YP-00	7S0LCTO2WW	S1CA
7S0L0017WW	V-VBO365-0U-SU5YP-00	7S0LCTO2WW	S1CB
7S0L0018WW	P-VBO365-0U-SU5YP-00	7S0LCTO2WW	S1CC
7S0L0007WW	V-VASENT-VS-PP000-00	7S0LCTO1WW	S1B6
7S0L000AWW	P-VASENT-VS-PP000-00	7S0LCTO1WW	S1B9
7S0L0008WW	V-VASENT-VS-PP3YS-00	7S0LCTO1WW	S1B7
7S0L000BWW	P-VASENT-VS-PP3YS-00	7S0LCTO1WW	S1BA
7S0L0009WW	V-VASENT-VS-PP5YS-00	7S0LCTO1WW	S1B8
7S0L000CWW	P-VASENT-VS-PP5YS-00	7S0LCTO1WW	S1BB
7S0L0001WW	V-VASPLS-VS-PP000-00	7S0LCTO1WW	S1AZ
7S0L0004WW	P-VASPLS-VS-PP000-00	7S0LCTO1WW	S1B2
7S0L0002WW	V-VASPLS-VS-PP3YS-00	7S0LCTO1WW	S1S0
7S0L0005WW	P-VASPLS-VS-PP3YS-00	7S0LCTO1WW	S1B3
7S0L0003WW	V-VASPLS-VS-PP5YS-00	7S0LCTO1WW	S1S1
7S0L0006WW	P-VASPLS-VS-PP5YS-00	7S0LCTO1WW	S1B4
7S0L000DWW	V-VBRPLS-VS-PP000-00	7S0LCTO1WW	S1BD
7S0L000GWW	P-VBRPLS-VS-PP000-00	7S0LCTO1WW	S1BG
7S0L000EWW	V-VBRPLS-VS-PP3YS-00	7S0LCTO1WW	S1BE
7S0L000HWW	P-VBRPLS-VS-PP3YS-00	7S0LCTO1WW	S1BH
7S0L000FWW	V-VBRPLS-VS-PP5YS-00	7S0LCTO1WW	S1BF
7S0L000JWW	P-VBRPLS-VS-PP5YS-00	7S0LCTO1WW	S1BJ
7S0L000XWW	V-ONE000-VS-PP000-00	7S0LCTO1WW	S1CO
7S0L0010WW	P-ONE000-VS-PP000-00	7S0LCTO1WW	S1C3
7S0L000YWW	V-ONE000-VS-PP3YS-00	7S0LCTO1WW	S1C1
7S0L0011WW	P-ONE000-VS-PP3YS-00	7S0LCTO1WW	S1C4
7S0L000ZWW	V-ONE000-VS-PP5YS-00	7S0LCTO1WW	S1C2
7S0L0012WW	P-ONE000-VS-PP5YS-00	7S0LCTO1WW	S1C5
7S0L002TWW	V-VASVUL-0I-PP000-00	7S0LCTO1WW	S4T0
7S0L002UWW	P-VASVUL-0I-PP000-00	7S0LCTO1WW	S4T1
7S0L002VWW	V-VASVUL-0I-PP3YS-00	7S0LCTO1WW	S4T2
7S0L002WWW	P-VASVUL-0I-PP3YS-00	7S0LCTO1WW	S4T3

Lenovo Part Number (LFO)	Veeam Part Number	Lenovo CTO	Lenovo Feature Code (LSF)
7S0L002XWW	V-VASVUL-0I-PP5YS-00	7S0LCTO1WW	S4T4
7S0L002YWW	P-VASVUL-0I-PP5YS-00	7S0LCTO1WW	S4T5
7S0L002ZWW	V-VBRVUL-0I-PP000-00	7S0LCTO1WW	S4T6
7S0L0030WW	P-VBRVUL-0I-PP000-00	7S0LCTO1WW	S4T7
7S0L0031WW	V-VBRVUL-0I-PP3YS-00	7S0LCTO1WW	S4T8
7S0L0032WW	P-VBRVUL-0I-PP3YS-00	7S0LCTO1WW	S4T9
7S0L0033WW	V-VBRVUL-0I-PP5YS-00	7S0LCTO1WW	S4TA
7S0L0034WW	P-VBRVUL-0I-PP5YS-00	7S0LCTO1WW	S4TB
7S0L0035WW	V-VASPLS-VS-P0000-U4	7S0LCTO4WW	S4TC
7S0L0036WW	P-VASPLS-VS-P0000-U4	7S0LCTO4WW	S4TD
7S0L0037WW	V-VASPLS-VS-P0000-U3	7S0LCTO4WW	S4TE
7S0L0038WW	P-VASPLS-VS-P0000-U3	7S0LCTO4WW	S4TF
7S0L0039WW	V-VASPLS-VS-P0000-U2	7S0LCTO4WW	S4TG
7S0L003AWW	P-VASPLS-VS-P0000-U2	7S0LCTO4WW	S4TH
7S0L003BWW	V-VASPLS-VS-P0000-U1	7S0LCTO4WW	S4TJ
7S0L003CWW	P-VASPLS-VS-P0000-U1	7S0LCTO4WW	S4TK
7S0L003DWW	V-VASPLS-VS-P0000-U8	7S0LCTO4WW	S4TL
7S0L003EWW	P-VASPLS-VS-P0000-U8	7S0LCTO4WW	S4TM
7S0L003FWW	V-DRO000-0I-SU1YP-00	7S0LCTO2WW	S5V7
7S0L003GWW	P-DRO000-0I-SU1YP-00	7S0LCTO2WW	S5V8
7S0L003HWW	V-DRO000-0I-SU2YP-00	7S0LCTO2WW	S5V9
7S0L003JWW	P-DRO000-0I-SU2YP-00	7S0LCTO2WW	S5VA
7S0L003KWW	V-DRO000-0I-SU3YP-00	7S0LCTO2WW	S5VB
7S0L003LWW	P-DRO000-0I-SU3YP-00	7S0LCTO2WW	S5VC
7S0L003MWW	V-DRO000-0I-SU4YP-00	7S0LCTO2WW	S5VD
7S0L003NWW	P-DRO000-0I-SU4YP-00	7S0LCTO2WW	S5VE
7S0L003PWW	V-DRO000-0I-SU5YP-00	7S0LCTO2WW	S5VF
7S0L003QWW	P-DRO000-0I-SU5YP-00	7S0LCTO2WW	S5VG

Veeam Subscription and License FAQ

Additional information about Lenovo resale of Veeam products.

Q: Does Lenovo provide support for Veeam software?

A: No. All support is provided by Veeam. Customers are instructed to call Veeam customer support directly with any issues installing or operating Veeam software.

Q: How do the Licenses or Subscriptions get delivered?

A: Lenovo uses the Lenovo Key Management System (LKMS) as the vehicle to transact most software delivery, including Veeam. Upon the Sales Order ship date, authorization codes are sent to the purchaser. These codes are then registered on LKMS. At that time the customer information will be electronically delivered to Veeam for processing and delivery of License keys.

Q: How will my support get renewed after initial maintenance agreements expire?

A: Lenovo will renew the Subscriptions as they expire. For Perpetual License maintenance contracts, those will be renewed directly by Veeam.

Q: Does Lenovo preinstall Veeam software at the factory?

A: No. Veeam software is delivered to customers by Veeam directly after Sales Order ship date.

Additional Resources

Useful resources:

- Veeam Lenovo landing page - This page lists several Veeam/Lenovo solutions for Office 365, ThinkAgile HX, VX and Lenovo DE/DM Storage:
<https://www.veeam.com/lenovo-storage-solution.html>
- Paper "Lenovo DE Series Storage Best Practices with Veeam Backup & Replication" - This white paper highlights best practices of Veeam backup software with ThinkSystem DE/DM Storage.
<https://www.lenovo.com/us/en/resources/data-center-solutions/whitepapers/lenovo-de-series-storage-best-practices-with-veeam-backup-replication/>

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