

CLOUD AVAILABILITY FOR VEEAM

Cloud Availability for Veeam is a suite of US Signal services allowing customers to extend their Veeam Backup and Replication infrastructure into the cloud. These services consist of Cloud Backup for Veeam, Cloud Replication for Veeam and Cloud Archive for Veeam. Customers can combine the offsite backup, disaster recovery and long-term data archival services for a complete approach to data protection in a single platform.

CLOUD BACKUP FOR VEEAM

US Signal's Cloud Backup for Veeam leverages Veeam Cloud Connect and allows you to get virtual machine backups off site without the cost and complexity of building and maintaining an off-site infrastructure. Cloud Backup for Veeam provides a fully integrated, fast, and secure way to backup, and restore from the cloud.

AT-A-GLANCE

- + Available as a managed or self-managed solution
- + Maintains off-site copies of Veeam backups without the cost and complexity of additional infrastructure
- + Customer premises hardware and licensing available from US Signal
- + No additional Veeam licensing required for Cloud Connect
- + End-to-end encryption starting at source, for data in-flight and at rest
- + Optional WAN acceleration to reduce bandwidth consumption and reduce transfer time by 50x
- + Built-in data compression and deduplication to decrease network traffic and reduce offsite repository size
- + Access and recover data in hosted backup repositories directly from the backup console
- + Unmetered ingress and egress bandwidth for storing and recovering your backup data

TECHNICAL OVERVIEW

Cloud Backup for Veeam allows you to store primary or secondary copies of Veeam backups securely off-site using US Signal's storage infrastructure. All of the backups and offsite copies are managed and recovered directly from your existing implementation of the Veeam backup console. The following technical features are available with using the Veeam Cloud Connect technology.

- + WAN acceleration to reduce transfer time by 50x
- + SSL/TLS encryption for data in transit to US Signal
- + AES-256 encryption for data at rest
- + Customizable backup schemes
- + GFS (grandfather-father-son) retention policies
- + Unmetered ingress and egress bandwidth

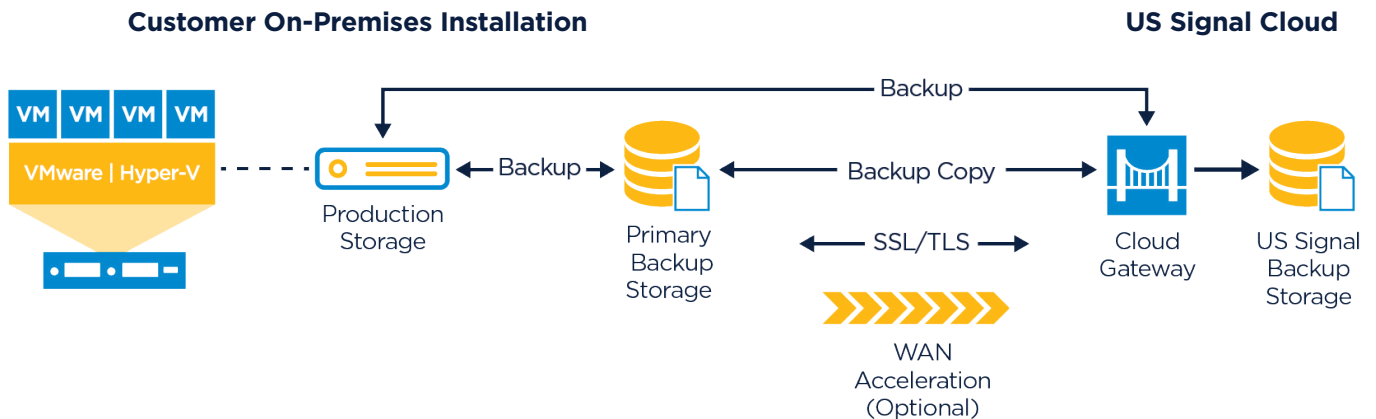
SUPPORTED VEEAM VERSIONS

- + Veeam Backup & Replication v9.5 Update 4 or later
- + Veeam Availability Suite v9.5 Update 4 or later

MANAGED CLOUD BACKUP FOR VEEAM (OPTIONAL)

US Signal will manage the following aspects of CBFV on your behalf:

- + Software installation and upgrades
- + Backup job creation or modifications
- + Restoration of images and files/folders to source
- + Monitoring of backup plan success and failure activity



LICENSING

As a VCSP and authorized Veeam reseller, US Signal is able to provide any required Veeam licensing for your solution. The following options are available:

- + **Rental License.** Pay as you go license to help reduce upfront costs
- + **Perpetual License.** Permanent license purchased per physical CPU socket
- + **Veeam Universal License.** Subscription based license purchased on 1-5 year terms

COMPLIANCE

US Signal's Cloud Connect for Veeam solution is built using HIPAA and PCI security standards helping you achieve your compliance requirements.

SERVICE LEVEL AGREEMENT

US Signal guarantees storage infrastructure availability. Infrastructure is considered available if storage space is able to be consumed by Customer backups.

Availability 100%.

For Managed Cloud Backup for Veeam, US Signal guarantees a managed support response time of 2 hours from the time a request is received. A request is considered received when a request is made to the US Signal TOC and a ticket is created.

CLOUD REPLICATION FOR VEEAM

US Signal's Cloud Replication for Veeam leverages Veeam Cloud Connect and allows you to get virtual machine replicas off site without the cost and complexity of building and maintaining an off-site infrastructure. Cloud Replication for Veeam provides a fully integrated, fast, and secure way to replicate workloads to the cloud.

AT-A-GLANCE

- + Available as a managed or self-managed solution
- + Maintains ready-to-start off site replicas of virtual machines without the cost and complexity of additional infrastructure
- + Customer premises hardware and licensing available from US Signal
- + No additional Veeam licensing required for Cloud Connect
- + End-to-end encryption starting at source, for data in-flight and at rest
- + Optional WAN acceleration to reduce bandwidth consumption and reduce transfer time by 50x
- + Recovery of individual applications or entire data centers with the click of a button
- + Granular point-in-time recovery with write-order fidelity across all protected virtual machines

TECHNICAL OVERVIEW

Cloud Replication for Veeam replicates your protected workloads into the US Signal cloud. Once replicated customer may failover individual workloads or entire sites to the cloud for testing and disaster recovery purposes.

- + WAN acceleration to reduce transfer time by 50x
- + SSL/TLS encryption for data in transit to US Signal
- + AES-256 encryption for data at rest
- + Customizable replication schemes
- + Configurable retention policies and restore points
- + Unmetered ingress and egress bandwidth

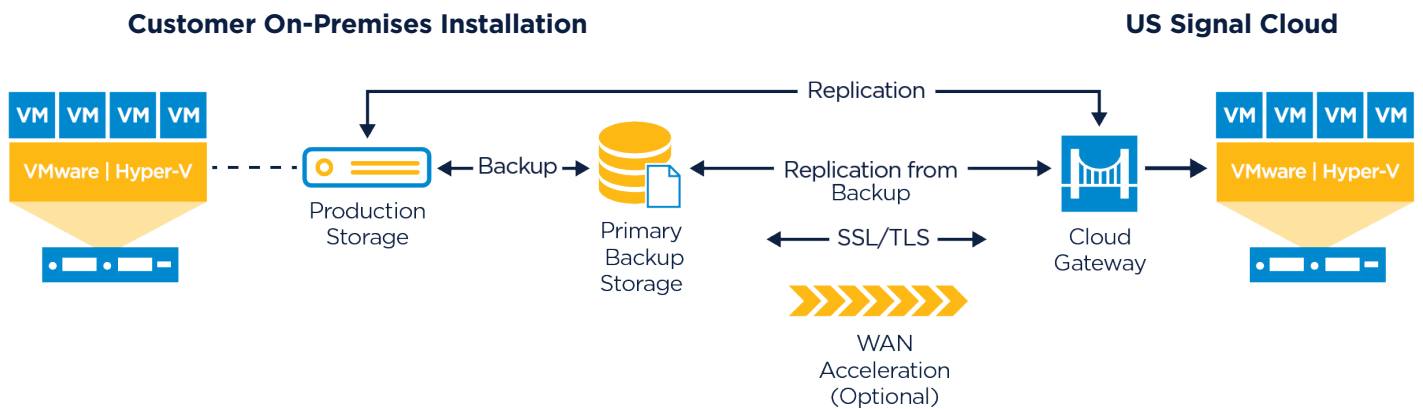
SUPPORTED VEEAM VERSIONS

- + Veeam Backup & Replication v9.5 Update 4 or later
- + Veeam Availability Suite v9.5 Update 4 or later

MANAGED CLOUD REPLICATION FOR VEEAM (OPTIONAL)

US Signal will manage the following aspects of CRFV on your behalf:

- + Software installation and upgrades
- + Replication job creation or modifications
- + Playbook creation and management
- + Failover of workloads to cloud and back to source
- + Monitoring of replication plan success and failure activity



PLAYBOOKS

With managed Cloud Replication for Veeam, US Signal Professional Service Engineers will work with you to develop a customized playbook, which includes all the necessary actions to failover the protected environment in the event of a disaster. Regular updates to the playbook are performed to ensure changes in your source environment are considered with your overall disaster recovery plan.

COMPLIANCE

US Signal's Cloud Connect for Veeam solution is built using HIPAA and PCI security standards helping you achieve your compliance requirements.

LICENSING

As a VCSP and authorized Veeam reseller, US Signal is able to provide any required Veeam licensing for your solution. The following options are available:

- + **Rental License.** Pay as you go license to help reduce upfront costs
- + **Perpetual License.** Permanent license purchased per physical CPU socket
- + **Veeam Universal License.** Subscription based license purchased on 1-5 year terms

SERVICE LEVEL AGREEMENTS

US Signal guarantees replication infrastructure availability. Infrastructure is considered available if storage space is able to be consumed by Customer replication data.

Availability 100%.

For Managed Cloud Replication for Veeam, an SLA on the recovery time objective (RTO) will be established and documented in the customers Cloud Replication for Veeam Playbook. RTOs range from minutes to hours. Actual achievable RTO will be derived through initial simulated failovers and are contingent on customer's environment size, bandwidth availability, etc.

CLOUD ARCHIVE FOR VEEAM

US Signal's Cloud Archive for Veeam allows customers to utilize US Signal's S3 Object Storage as a Veeam Cloud Tier Scale-Out Backup Repository. This provides low cost archive storage to accommodate data growth and long-term retention needs.

AT-A-GLANCE

- + Maintains off-site archived copies of Veeam backups without the cost and complexity of additional infrastructure
- + No additional Veeam licensing required for Cloud Tier
- + Optional Management of Veeam Backup by US Signal
- + End-to-end encryption starting at source, for data in-flight and at rest
- + Built-in source side deduplication to decrease network traffic and reduce off-site repository size
- + Access and recover data in hosted archived backup repositories directly from the backup console
- + Unmetered ingress and egress bandwidth for storing and recovering your backup data

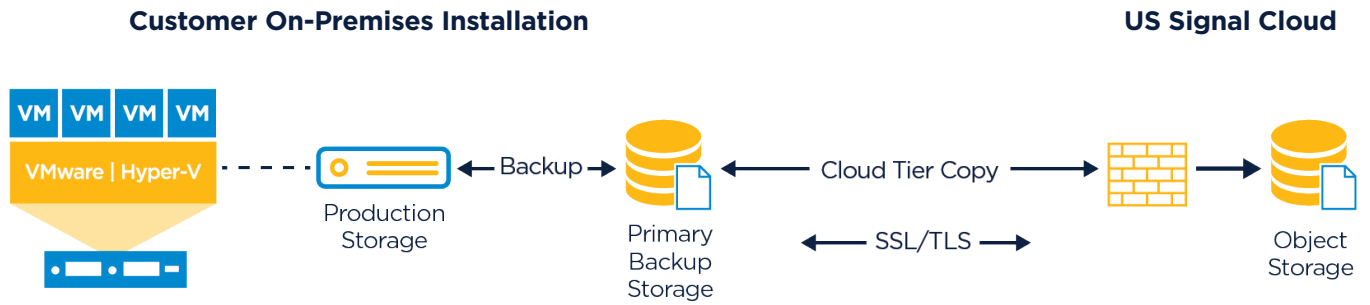
TECHNICAL OVERVIEW

Cloud Archive for Veeam allows you to store archived copies of Veeam backups securely off-site using US Signal's S3 Object Storage. All of the offsite archived copies are managed and recovered directly from your existing implementation of the Veeam backup console. The following technical features are available with using the Veeam Cloud Tier technology.

- + SSL/TLS encryption for data in transit to US Signal
- + AES-256 encryption for data at rest
- + Customizable tier out schemes for archival
- + Unmetered ingress and egress bandwidth

SUPPORTED VEEAM VERSIONS

- + Veeam Backup & Replication v9.5 Update 4 or later
- + Veeam Availability Suite v9.5 Update 4 or later



COMPLIANCE

US Signal's Cloud Archive for Veeam solution is built using HIPAA and PCI security standards helping you achieve your compliance requirements.

SERVICE LEVEL AGREEMENTS

Object Storage is considered available if API calls and data retrieval are able to be completed successfully between the US Signal backbone and public API storage endpoints. Some API errors, such as transit issues on the Internet, do not establish failure criteria and may not be guaranteed under the object Storage SLA.

Availability: 99.99%.