

# Soluciones Globales



## Propuesta Técnica Solución para la Adquisición y Actualización de Licencias de Software

REF.: JCE-CCC-PU-02-04-2019



*Junta Central Electoral*  
*Garantía de Identidad y Democracia*

vmware



DELL EMC

# Resumen Ejecutivo

## "Solución para la Adquisición y Actualización de Licencias de Software"

Tenemos el placer de responder a su solicitud de propuesta para la ejecución del Proyecto de **"Solución para la Adquisición y Actualización de Licencias de Software"** según sus necesidades expresadas en el pliego de referencia JCE-CCC-PU-02-04-2019. Luego de analizar su institución y sus requerimientos en tecnología, entendemos que su éxito dependerá de la capacidad que tenga en mantener los niveles de servicios requeridos por un mercado cada vez más exigente.

SOLUCIONES GLOBALES, en alianza estratégica con nuestros partners VMware y Dell EMC, le podemos ayudar a construir una sólida y robusta plataforma para almacenamiento centralizado y continuidad de negocios tomando en cuenta la Alta Disponibilidad y Tolerancia a Fallos que requieren los servicios que ofrecen. Nuestra propuesta incluye lo siguiente:

- Licenciamiento, instalación y configuración de vSphere Enterprise plus.
- Licenciamiento, instalación y configuración de SRM standard.
- Licenciamiento, instalación y configuración de Horizon Enterprise plus.
- Licenciamiento de VMware Workstation 15 PRO.
- Licenciamiento, instalación y configuración de VMware Data Protection.

Contamos con un equipo de profesionales altamente calificados y con amplia experiencia, lo que les garantiza la calidad de nuestros servicios y el logro oportuno de sus objetivos del proyecto.



# HISTORIAL DE VERSIONES

FECHA	Preparado Por	Revisado por	VERSION	COMENTARIOS
14/08/2019	Liezer Beriguete	Dileysi Ureña	V1.0	Elaboración de propuesta técnica



# CONTENIDO

1.	INTRODUCCION .....	5
1.1	AVISO DE PROPIEDAD .....	5
1.2	ANTECEDENTES .....	5
2.	PRESENTACIÓN DE LA EMPRESA.....	7
2.1	Soluciones Globales .....	7
2.2	Ubicación .....	7
2.3	Productos y Servicios que ofrecemos .....	7
2.3.1	Nuestros Productos .....	7
2.3.2	Nuestros Servicios.....	8
2.4	Cartera de clientes y referencias del producto/servicio solicitado .....	8
3.	INFORMACIÓN DEL PRODUCTO .....	9
3.1	Componentes de la propuesta .....	9
4.	ALCANCE DEL PROYECTO .....	10
4.1	Definición del Alcance .....	10
4.2	Equipo de Trabajo .....	12
4.3	Información de Estándares de Calidad .....	12
5.	FACTORES CRITICOS DE ÉXITO .....	13
6.	PROCEDIMIENTO DE ADMINISTRACION DE CAMBIOS .....	15
7.	OTROS ANEXOS .....	17



# 1. INTRODUCCION

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SOLUCIONES GLOBALES es una importante empresa de tecnología de la República Dominicana y uno de los principales socios de negocios de Dell EMC y VMware en el País.

## 1.1 AVISO DE PROPIEDAD

Restricciones de uso y divulgación del contenido de esta propuesta.

La información contenida en la totalidad de este documento constituye un secreto de marca y/o información comercial o financiera que está clasificada como confidencial.

Cualquier asunto relacionado con el presente documento favor de dirigirlo a:

Jose Mateo- CEO  
Soluciones Globales  
[ventas@soluciones-globales.net](mailto:ventas@soluciones-globales.net)

Celso J. Ramírez- Director de Servicios  
Soluciones Globales  
[servicios@soluciones-globales.net](mailto:servicios@soluciones-globales.net)

## 1.2 ANTECEDENTES

Asumiendo el desafío que nos impone el avance Tecnológico de estos tiempos SOLUCIONES GLOBALES, Surge en el 2004 como una empresa Integradora de alternativas y Servicios, Orientada al desarrollo e Implementación de Soluciones Inteligentes y Versátiles que garantizaran el éxito de la empresa y el nuestro.

Buscamos garantizar la más alta disponibilidad de la información de las empresas, sin importar su tamaño, al tiempo que la ayudamos a obtener el mejor provecho de la data desde la creación y almacenamiento hasta su eventual eliminación. Proveemos la administración del ciclo de vida de la información.



El presente documento tiene como objetivo presentar una propuesta para implementar una solución que contribuya al logro de esos objetivos, tomando como base la lista de necesidades identificadas.



## 2. PRESENTACIÓN DE LA EMPRESA

Esta sección da detalles del perfil de los proveedores involucrados en la implementación de la solución propuesta

### 2.1 SOLUCIONES GLOBALES



SOLUCIONES GLOBALES, desde 2004, ha orientado sus esfuerzos en proveer a sus clientes soluciones y servicios informáticos de calidad Premium que superen sus expectativas.

Soluciones Globales S.A. es una empresa nacional del área de tecnología de información, con sede principal en Santo Domingo, DN, República Dominicana, especializada en la implementación, soporte y comercialización de sistemas de hardware y software empresariales.

Hoy Soluciones Globales tiene presencia en la mayoría de las instituciones financieras y de telecomunicaciones de la República Dominicana y es reconocida por su cumplimiento, calidad y servicios.

### 2.2 UBICACIÓN

DIRECCION: Av. 27 de Febrero No. 329. Torre Elite. Suite 402

Teléfono: 809-566-6601

WEB: <http://soluciones-globales.net>

Audiencia: Elite – Tecnología CORPORATIVA

### 2.3 PRODUCTOS Y SERVICIOS QUE OFRECEMOS

#### 2.3.1 NUESTROS PRODUCTOS

Bases de datos  
Virtualización  
Networking  
Servidores  
Monitoreo

Sistemas de Almacenamiento  
Replicación  
Exchange  
Backups  
Cloud Services

Soluciones Globales cuenta con servicios, productos y soluciones basadas en la estrategia de la gestión del ciclo de vida de la información.

Ya sea que tenga como objetivo la reducción de costos, el cumplimiento de regulaciones, mejores niveles de servicio y mayor disponibilidad, Soluciones Globales le ayuda a evaluar cuidadosamente la mejor forma de administrar su información y transformar su entorno.



Somos de las pocas compañías en el mercado local que cuenta con alianzas y apoyo total de las compañías líderes mundiales en la provisión de soluciones tecnológicas, tales como: Dell EMC, Oracle, Cisco, VMware, VCE, Dell, CA, etc.

## 2.3.2 NUESTROS SERVICIOS

Ponemos a disposición de nuestros clientes personal altamente calificado para brindar servicios de soporte tanto preventivo (capacity plan, assesments, upgrades, patches, integración), como correctivo para sus Sistemas de almacenamiento, Servidores, Networking, Virtualización, Correo Electrónico y Bases de Datos.

## 2.4 CARTERA DE CLIENTES Y REFERENCIAS DEL PRODUCTO/SERVICIO SOLICITADO

Entre estos podemos mencionar a: Banco BHD Leon, Banco Popular Dominicano, Banreservas, Banco Santacruz, Centro Cuesta Nacional, Claro Dominicana, Ministerio de Hacienda, Orange Dominicana, Tricom, PUCMM, Banco Ademi, Banco BDI, Seguros Sura, Aereopuerto Internacional del Cibao, Superintendencia de Valores, CEVALDOM, Bolsa de Valores, Barrick, Farmacia Carol, Kio Networks y muchos otros.

Referencias			
Banco BDI	Lic. Angel Andujar	809-535-8586	Networker/Data Domain/SRM/Recoverpoint Vmware/VNX/Brocade/UNITY 400
Bolsa de Valores	Cristian Velázquez	809-567-6694	Vmware/Srm/Rpa/Vmware
Cevaldom	Luis Suarez	809-227-0100	Data Domain/networker replication
Banco Ademi	Ing. Ariel Reyes	829-679-0161	Data Domain/networker/Vnx RecoverPoint
Banco Adopem	Ing. Juan Terrero	809-292-7720	Clariions/SAN/Oracle
WorldWide Seguros	Ing. <sup>Diego</sup> Guzman	809-567-6694	UNITY 300/SAN
ADESS	Ing. <sup>Henry</sup> Martínez	809-299-9060	Networker/Data Domain/VNX/Brocade
PUCMM	Ing. Sanchez	809-747-3578	VNX/VMware/ RecoverPoint
Cámara de Diputados	Ing. Joel Ramos	809-669-7725	Networker/Data Domain/VNX
Banco BACC	Ing. Rafael Perez	809-562-6473	VNX/SRM/RecoverPoint/Vmware/UC S





# 3. INFORMACIÓN DEL PRODUCTO

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Esta sección define detalles sobre la solución técnica propuesta, así como el esquema de soporte aplicable a la misma

## 3.1 COMPONENTES DE LA PROPUESTA

**Item 1.1:** Licenciamiento e instalación de VMware vSphere 6.7 Enterprise Plus para 12 procesadores con 3 años de soporte 24x7.

**Item 1.2:** Licenciamiento e instalación de VMWare Site Recovery Manager 8 standard para 25 máquinas virtuales con Soporte por 3 años en modalidad 8x5.

**Item 1.3:** Licenciamiento e instalación de VMWare Horizon Enterprise Plus para 10 usuarios concurrentes con Soporte por 3 años en modalidad 24x7.

**Item 1.4:** Licenciamiento e instalación de VMWare Workstation 15 PRO para 15 dispositivos con Soporte por 3 años en modalidad 24x7.

**Item 2:** Licenciamiento de 20 sockets e instalación de Respaldo Protection Suite For Wmware. En este caso sería Dell EMC NetWorker. También incluimos licenciamiento de 36 TB de Data Domain virtual edition. La solución cuenta con 3 años de soporte.

Nuestra propuesta incluye además soporte local por dos años para todos sus componentes.



# 4. ALCANCE DEL PROYECTO

Esta sección define el alcance detallado de los servicios de implementación que se ofrecen como parte de la solución propuesta

## 4.1 DEFINICIÓN DEL ALCANCE

El personal experimentado de Soluciones Globales trabajará en conjunto con la Junta Central Electoral para llevar a cabo la implementación de la solución propuesta acorde al siguiente alcance:

### Ítem 1.1:

- Instalación de vSphere en hasta 5 hosts
- Interconexión con Santo Domingo
- Instalación de hasta 3 vCenter server
- Integración con Active Directory
- Creación de 1 plantilla de máquina virtual con Windows server en cada vCenter

### Ítem 1.2:

- Instalación de hasta 2 appliances de SRM 8
- Integración con vCenter de Santo Domingo
- Integración con vCenter de La Romana
- Integración con sistema de replicación (de existir alguno funcionando actualmente)
- Interconexión de sitios
- Mapeo de recursos
- Creación de hasta 3 grupos de consistencia
- Pruebas de recuperación

### Ítem 1.3:

- Instalación de Horizon Enterprise plus
- Instalación de vCenter
- Despliegue de 10 escritorios en ambiente de VDI

### Ítem 1.4:

- Para VMware Workstation 15 pro solo se incluye el licenciamiento para 15 máquinas con su soporte.



## Ítem 2:

- Instalación y configuración de 1 servidor de VMware Data protection – NetWorker- (físico o virtual)
- Implementación basada en las mejores prácticas del fabricante
- Instalación de Data Domain virtual en La Romana
- Instalación de 3 proxy de integración con vCenter para respaldos de máquinas virtuales
- Integración con SQL
- Creación de las políticas de respaldo requeridas por JCE
- Configuración de la réplica del backup desde el Data Domain existente hacia el Data Domain virtual en la Romana
- Todos los de respaldos de los LUNs de producción estarán siendo replicados hacia el sitio alterno.

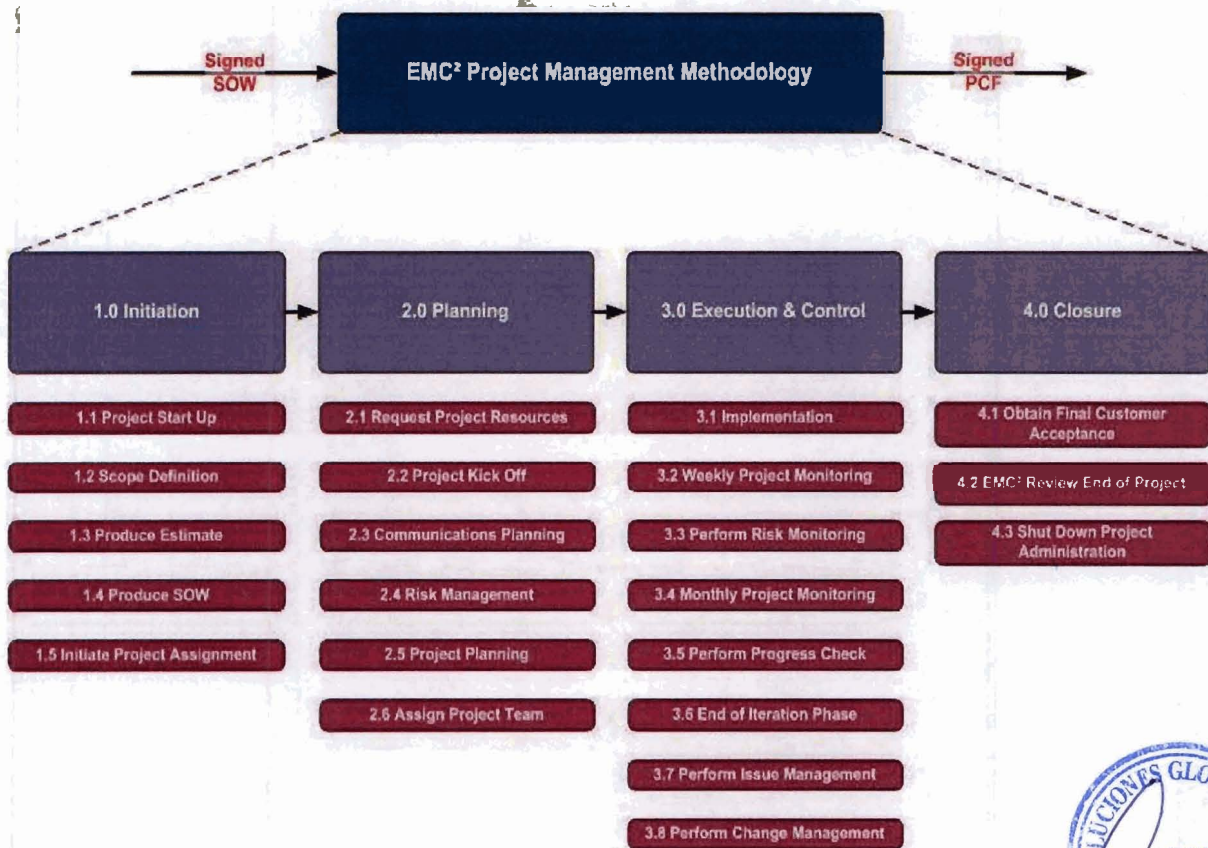


## 4.2 EQUIPO DE TRABAJO

Función	Nombres	Ho
Ingeniero de campo	Eliezer Beriguete	Certificado Cisco CCNA Datacenter, Certificado en EMC Portafolio 2018, EMC Solutions 2018 & EMC Implementation Specialist
Ingeniero de campo	Mortimer Echavarria	Certificado en EMC Portafolio 2018 & EMC Solutions 2018
Project Manager	Celso Ramirez	Cuenta con más de 21 años de experiencia en el área habiendo ocupado posiciones de dirección de Tecnología en empresas reconocidas del País.

## 4.3 INFORMACIÓN DE ESTÁNDARES DE CALIDAD

Soluciones Globales y EMC siguen en la gestión de sus proyectos, la metodología que se muestra en el diagrama que aparece a continuación, basada en los estándares que establece Project Management Institute (PMI®), asociación líder en la profesión de Administración y Gestión de Proyectos:



## 5. FACTORES CRITICOS DE ÉXITO

Los Factores Críticos de Éxito son aspectos que, formando o no parte del proyecto, pueden tener un impacto significativo en el éxito o fracaso del mismo.

El éxito del proyecto que se describe en este documento dependerá del cumplimiento de condiciones y/o supuestos mínimos. Esos **factores críticos** son descritos a continuación:

- 1) Se debe nombrar a un responsable del Proyecto por parte del Cliente, el cual debe tener dedicación exclusiva al proyecto durante las actividades y etapas críticas de este, según se establece en el Plan.
- 2) El entrenamiento está basado en material genérico de entrenamiento, utilizando método presencial de entrega bajo la modalidad "Knowledge Transfer", para un máximo de 5 participantes los cuales tendrán el compromiso de asistir a las sesiones.
- 3) Cualquier cambio de alcance debe seguir el Procedimiento de Administración de Cambios.
- 4) El Cliente deberá revisar y aprobar los productos del proyecto dentro de los tiempos establecidos para tal fin.
- 5) El Cliente deberá proporcionar, según sea necesario, estaciones de trabajo que permitan a Soluciones Globales obtener acceso al software identificado en la sección alcance del proyecto.
- 6) El Cliente debe asignar un recurso técnico líder para que actúe como único punto de contacto técnico entre el cliente y Soluciones Globales, según sea necesario, durante la contratación.
- 7) El Cliente debe facilitar ventanas de mantenimiento del sistema adecuadas según sea necesario para que Soluciones Globales (o sus agentes autorizados) preparen el equipo.
- 8) El Cliente debe asumir la responsabilidad de todos los problemas de conectividad, desempeño y configuración de su red de datos.
- 9) Se debe identificar el nivel actual del conjunto de parches del sistema operativo necesario para esta implementación e instalar las actualizaciones recomendadas antes del comienzo de la implementación.
- 10) El cliente debe asegurar que exista un proceso adecuado de respaldo y restauración.
- 11) El cliente debe obtener y proporcionar todos los acuerdos de mantenimiento y las licencias de terceros que se necesiten para que Soluciones Globales complete el proyecto.



- 12) El cliente debe proporcionar el personal adecuado para brindar apoyo en la formación de racks y el agrupamiento de equipos.
- 13) El cliente debe garantizar que las condiciones de trabajo permitan el cumplimiento satisfactorio del proyecto.
- 14) Se recomienda asignar un patrocinador del proyecto como único punto de contacto para resolver problemas, calendarizar actividades y entrevistas, y recopilar y difundir información. El patrocinador del proyecto es responsable de asegurar el cumplimiento de las obligaciones del cliente.



## 6. PROCEDIMIENTO DE ADMINISTRACION DE CAMBIOS

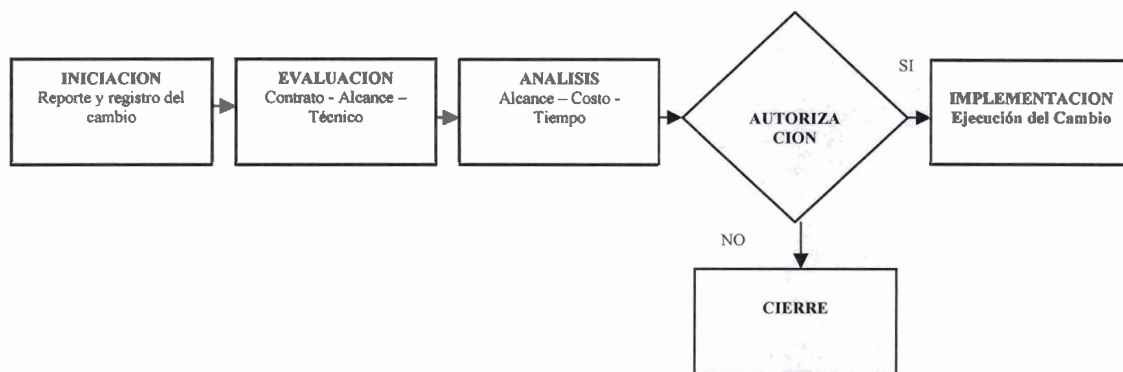
Aun cuando se establezca claramente el alcance y los objetivos de un proyecto, se deben proveer los medios para realizar cambios cuando sea necesario

Uno de los objetivos más importantes a cumplir durante la ejecución de todo proyecto de IT es lograr que las condiciones en las cuales se realizan las actividades se mantengan constantes durante toda la ejecución del mismo. Esta es una premisa básica para lograr que la planificación y presupuesto del proyecto se cumplan; sin embargo, en ocasiones se producen cambios que deben ser manejados durante la ejecución del proyecto de manera de cumplir con los objetivos fundamentales que se hayan planteado.

Los *Cambios al Proyecto* pueden resultar en un incremento, disminución o ningún impacto en el costo y/o duración del Proyecto. Los Cambios al Proyecto siempre deben ser documentados y aceptados antes de su realización.

Se define un *Cambio al Proyecto* como una desviación de, o modificación a, cualquier documento aprobado o producto inicialmente definido, tal como la presente Propuesta de Servicios, Plan de Trabajo, especificaciones de programas, código de programa, plan de pruebas, resultado de pruebas o reporte impreso.

Para poder identificar y controlar estos eventos se establece el proceso de administración de cambios, como se ilustra a continuación:



Tanto EL CLIENTE como Soluciones Globales pueden iniciar un cambio en el proyecto. El cambio será evaluado para determinar los aspectos técnicos y de alcance afectados por su eventual ejecución. Se analizará y documentará el impacto en términos técnicos, de costo y de alcance. Contando con estos elementos, se procesará el cambio para determinar la ejecución o el cierre de la solicitud.



En caso de que no se lograra un acuerdo con respecto a la solicitud del cambio, el alcance del proyecto sería el mismo que define en el presente documento, sin ninguna modificación.





# 7. OTROS ANEXOS

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# DELL EMC DATA PROTECTION SUITE FAMILY

## ESSENTIALS

### Value

- Covers the data protection continuum including replication, snapshot, backup, and archive
- Boasts the industry's tightest integration with Dell EMC Data Domain®
- Delivers unified index and search capabilities
- Leverages long-term retention to public, private or hybrid cloud as a replacement for tape
- Provides global copy data oversight and management without compromising self-service workflows
- Optional Mozy Enterprise cloud backup

### Simplicity

- Provides centralized management, analysis and reporting
- Empowers application owners to use their native tools
- Delivers application owner visibility and control

### Flexibility

- Covers all consumption models, from on-premise to virtualized environments to hybrid and public clouds
- Delivers heterogeneous platform support while supporting a broad range of apps
- Mix and match software anytime to deploy across physical and virtual environments

### Investment Protection

- Reduces total cost of ownership
- Optimizes storage tiers with archiving to maximize performance and lower costs
- Modify the mix over time as data grows and environment evolves

## Data Protection Everywhere

The Dell EMC® Data Protection Suite Family provides enterprise organizations with industry-leading data protection through a comprehensive set of offerings specifically tailored to meet your needs. Whether your data protection environment is rich with mission critical applications, fully virtualized, focused on backup and recovery with requirements for supporting many different use cases including NAS and tape-out, or a complex assortment of these, the Data Protection Suite Family offers solutions built to satisfy the needs of your business. Because there is no such thing as a one size fits all solution, Dell EMC has designed the Data Protection Suite Family based on enabling you to meet service levels that align to your business objectives.

## DATA PROTECTION CHALLENGES

Companies are rethinking next generation data protection methods as a result of exponential data growth, regulatory compliance, strict service-level agreements, and shrinking backup windows. And IT teams face additional challenges from accelerated virtualization and the need to better protect data residing throughout the enterprise...

The reality is that most companies are managing their applications and data in multiple places; from on-premise traditional infrastructures to virtualized environments to hybrid and public clouds. This calls for a data protection strategy that acknowledges the current landscape and protects data across all consumption models because it is likely that you will need to protect more than one of these environments for some time. At the same time, protection and availability should be based on the business value of the data and service levels that align to your business objectives.

Traditional solutions are inefficient because they repeatedly backup everything—duplicate files and sub-file data segments that exist across servers, desktops, laptops, and offices. When combined with traditional daily incremental and weekly full backups, the amount of duplicate data is staggering and often leads to decreased performance and increased costs. Searching for backups to recover data in large environments becomes a daunting task.

A primary driver of this exponential data growth is copy data, which includes copies for data protection, analytics, operations, as well as testing and development. In fact, this copy sprawl is expected to consume storage capacity and increase costs. This explosion of copy data is being driven by the move to self-service, which has led to siloes of copy creation across the enterprise without global oversight. Solving this copy data problem requires modern data management which focuses on optimizing infrastructure efficiency, streamlining operations and consistently meeting service levels across the enterprise.

In addition, companies that lack robust data archiving processes risk reduced user productivity, along with increased storage and backup costs. Organizations also require fast, easy access to archived email, files, and Microsoft™ SharePoint® content in support of high-volume discovery, regulatory compliance, and secure legal holds.



## DATA PROTECTION SUITE FAMILY

The Data Protection Suite Family simplifies data protection choices, making it easier than ever for you to access best-of-breed backup, recovery, and archive solutions that fit your specific needs. The Dell EMC Data Protection Suite Family provides comprehensive, industry-leading data protection to enterprise organizations of any size. Protecting data using technology from replication to snapshot to backup and archive, Data Protection Suite delivers coverage across all consumption models. With purpose-built solutions built to meet the needs of all types of organizations and data protection environments, the Data Protection Suite Family protects your data no matter where it is and against whatever happens. Here is a deeper look into each of our Data Protection Suite offerings:

### DATA PROTECTION SUITE ENTERPRISE EDITION

The most comprehensive of all Suite offerings is Data Protection Suite Enterprise Edition. Protecting data through technology including continuous replication, snapshot, deduplicated and traditional backup, and archive, Enterprise Edition differentiates itself by meeting the needs of organizations of all sizes via a single, comprehensive offering. This Suite boasts Dell EMC's best-of-breed backup and recovery products, as well as industry-leading replication and archive.

### DATA PROTECTION SUITE FOR BACKUP

Data Protection Suite for Backup is a backup and recovery software solution delivering industry-leading data protection to a variety of enterprise organizations. Designed for use in physical and virtual environments and supporting many different deployment models and protection technologies including deduplication backup, back up to disk, snapshot-based backup, and backup to tape, this Suite offers flexibility to mix and match components to quickly optimize performance and data protection today and in the future, while also reducing costs.

### DATA PROTECTION SUITE FOR APPLICATIONS

Data Protection Suite for Applications provides unparalleled efficiency to meet stringent SLAs on mission critical applications. With Dell EMC Data Protection Suite for Applications, customers are given a solution which provides up to 20x faster backup by enabling direct backup to Dell EMC Data Domain® from either primary storage or the application server, and up to 10x faster recovery. It empowers application owners/database administrators to backup directly to Data Domain through native application utilities (like Oracle RMAN®) and also allows them to discover, automate and optimize copies for superior copy data management. Data Protection Suite for Applications reduces the hidden risk and cost associated with distributed, self-service copy creation by providing global oversight of the copy data ecosystem. Finally, it eliminates, or significantly reduces, the impact on application servers because little or no data flows through the application server.

### DATA PROTECTION SUITE FOR VMWARE

Data Protection Suite for VMware offers end-to-end data protection for VMware-based environments including backup and recovery, continuous replication, monitoring and analysis, and search capabilities. This offering is a software-only data protection solution that delivers simplified deployment and administration within virtualized and cloud environments. Data Protection Suite for VMware is unique in the market in that no other vendor provides this depth and breadth of data protection.

### DATA PROTECTION SUITE FOR ARCHIVE

Data Protection Suite for Archive serves as Dell EMC's best-in-class solution for all things archiving and e-discovery. As a part of the Data Protection Suite Family, this solution gives organizations the full ownership and control over their information. Customers have the ability to reduce costs by reclaiming valuable primary data storage space, optimizing server and operational performance, and meeting company compliance regulations, eDiscovery and litigation needs.



## CLLOUD-ENABLED

Many organizations are moving quickly toward cloud-based environments – private, hybrid, and public - for greater flexibility and agility to help reduce costs. Whether you're protecting applications and data residing within your data center or the public cloud, Data Protection Suite provides the same enterprise-level user experience. In particular, there is benefit in leveraging cloud storage – specifically object storage – rather than tape, for long-term retention of backups. With Dell EMC CloudBoost, Data Protection Suite delivers highly-efficient, secure long-term retention of backups in private cloud through Dell EMC Elastic Cloud Storage or a leading public cloud of your choice, as well as backups of data and applications within the public cloud. Additionally, from within Data Protection Suite's backup application UI's, administrators can natively control deduplicated backup data movement policies for Data Domain Cloud Tier, thereby managing which clients are backed up on-premises and which are in cloud. Administrators can also rapidly recover a cloud-based object. Dell EMC disaster recovery solution enables customers to protect their on-prem applications to the public cloud and recover within the public cloud. This cloud-enabled solution underscores Dell EMC's commitment to protecting data across all consumption models.

## WHAT'S INCLUDED

The combination of components within each Data Protection Suite offering is hand-picked to deliver comprehensive data protection according to the requirements of your organization's environment. See below for a complete product breakdown to see what is included in each Suite.

	AppSync	Avamar	CloudBoost	DD Boost for Ent. Apps	Data Protection Advisor	DP Search	Enterprise Copy Data Management	NetWorker	ProtectPoint	RecoverPoint for VMs	SourceOne
Data Protection Suite Enterprise Edition	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Data Protection Suite for Backup		✓	✓	✓	✓	✓		✓			
Data Protection Suite for Apps				✓	✓		✓		✓		
Data Protection Suite for VMware		✓			✓	✓				✓	
Data Protection Suite for Archive											✓

## COMPLETE ENTERPRISE PROTECTION

Enterprise organizations with at least 1 TB of protected capacity can choose to deploy Data Protection Suite components within each offering at your discretion, in any combination - and modify the mix over time as data grows and requirements evolve. As a result, you can effectively protect your applications and data to improve performance, reduce costs and mitigate risk.

By utilizing its industry-leading backup and recovery software, Data Protection Suite Enterprise Edition and Data Protection Suite for Backup provide enterprise-wide protection of files, applications and databases in both physical and virtual environments, as well as unified search capabilities using Data Protection Search. With deduplication and traditional protection storage support, Data Protection Suite Enterprise Edition and Data Protection Suite for Backup allow you to ensure long-term reliable backup retention, including long term retention to private and public cloud with CloudBoost and Data Domain Cloud Tier. Data Protection Suite offerings also include comprehensive physical, virtual and cloud environment monitoring, analysis and reporting, delivered by Data Protection Advisor.

ProtectPoint, an enabling technology included in Data Protection Suite Enterprise Edition and Data Protection Suite for Applications, provides up to 20x faster, more efficient backup while eliminating the impact on application servers.



Data Protection Suite for Applications and Data Protection Suite Enterprise Edition include Dell EMC Enterprise Copy Data Management (eCDM), delivering copy data management across the modern data center by discovering copies for non-disruptive global oversight, automating SLO compliance via efficient copy creation, and optimizing operations by enabling application and database admins to use their native self-service utilities.

For long-term archive, Enterprise Edition and the Suite for Archive include Dell EMC SourceOne, enabling storage optimization and savings on primary storage costs as well as content preservation for email, files, and Microsoft SharePoint. SourceOne Discovery Manager and SourceOne Email Supervisor are optional add-ons, providing eDiscovery and compliance capabilities.

Data Protection Suite Enterprise Edition and Data Protection Suite for Backup also offer optional cloud data protection with MozyEnterprise® for secure sync, share, collaboration & real-time document protection for desktop and laptop users to hybrid cloud.

For a complete data protection solution, leverage the powerful combination of Dell EMC data protection software with protection storage. Experience reduced risk of data loss, industry-leading deduplication, and superior performance when using Data Protection Suite with Data Domain.

## SIMPLICITY, FLEXIBILITY, AND INVESTMENT PROTECTION

The Data Protection Suite Family is designed to provide options when it comes to protecting different environments.

Dell EMC delivers innovative end-to-end software and protection storage solutions that are designed to work together. The Data Protection Suite Family provides you the freedom to purchase based on consumption and deployment models, allowing the migration of your data protection infrastructures to meet evolving backup and recovery, archiving and compliance requirements.

## TAKE THE NEXT STEP

Contact your Dell EMC sales representative or authorized reseller to learn more about how the Dell EMC Data Protection Suite Family can benefit your organization.

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# VMWARE HORIZON 7

## AT A GLANCE

VMware Horizon® 7 delivers virtualized or hosted desktops and applications through a single platform to end users. These desktop and application services—including Remote Desktop Services (RDS) hosted apps, packaged apps with VMware ThinApp®, software-as-a-service (SaaS) apps, and even virtualized apps from Citrix—can all be accessed from one digital workspace across devices, locations, media, and connections without compromising quality and user experience.

Leveraging complete workspace environment management and optimized for the software-defined data center, Horizon 7 helps IT control, manage, and protect all of the Windows resources end users want, at the speed they expect, with the efficiency business demands.

## WHAT'S NEW

Drawing on the best of mobile and cloud, Horizon 7 radically transforms virtual desktop infrastructure (VDI), giving you unprecedented simplicity, security, speed, and scale—all at lower costs. Horizon 7 helps you get up and running up to 30x faster while cutting costs over traditional solutions by as much as 50%.



## End-User Computing Today

Today, end users are leveraging new types of devices for work—accessing Windows and Linux applications alongside iOS or Android applications—and are more mobile than ever.

In this new mobile cloud world, managing and delivering services to end users with traditional PC-centric tools have become increasingly difficult. Data loss and image drift are real security and compliance concerns. And organizations are struggling to contain costs. Horizon 7 provides IT with a new streamlined approach to deliver, protect, and manage Windows and Linux desktops and applications while containing costs and ensuring that end users can work anytime, anywhere, on any device.

## Horizon 7: Delivering Desktops and Applications as a Service

Horizon 7 enables IT to centrally manage images to streamline management, reduce costs, and maintain compliance. With Horizon 7, virtualized or hosted desktops and applications can be delivered through a single platform to end users. These desktop and application services—including RDS hosted apps, packaged apps with ThinApp, SaaS apps, and even virtualized apps from Citrix—can all be accessed from one unified workspace to provide end users with all of the resources they want, at the speed they expect, with the efficiency business demands.

## Desktops and Applications Delivered Through a Single Platform

Deliver virtual or hosted desktops and applications through the VMware's next-generation JMP platform to streamline management, easily entitle end users, and quickly deliver desktops and applications to end users across devices and locations.

Horizon 7 provides a single platform for delivering hosted Windows applications and shared desktop sessions from Windows Server instances using Microsoft Remote Desktop Services (RDS), virtual desktops, and ThinApp packaged applications. Horizon 7 supports both Windows- and Linux-based desktops, including RHEL, Ubuntu, CentOS, and NeoKylin.

## Unified Digital Workspace

With Horizon 7, IT can support real-time validation, streamlined identity management across identity sources such as Active Directory and LDAP, and provide end users with contextual and customizable access to resources through a single unified workspace.

Horizon 7 supports two-factor, smart card, and biometric authentication. It is designed and certified to meet the most demanding compliance regulations, including those of the U.S. federal government.

Desktops and applications that can be securely delivered and accessed through the digital workspace include:

- Horizon virtual desktops
- XenApp 5.0 and later
- RDS-hosted apps and desktops for Windows Server 2008 and later
- SaaS applications
- ThinApp 5.0 and later
- VMware Horizon Cloud desktops and Horizon Cloud apps



Figure 1. Digital Workspace

### Just-in-Time Delivery with Instant Clone Technology

Instant clone technology coupled with VMware App Volumes™ dramatically reduces infrastructure requirements while enhancing security. The VMware JMP platform enables you to deliver brand new personalized desktops and published applications instantly to end users every time they log in:

- Deliver pristine high-performance personalized desktops to end users every time they log in.
- Scale published applications effortlessly at the push of a button while deploying them 5-10x faster and eliminating image sprawl.
- Simplify deployments with a tightly integrated stack and fewer components, along with half the required steps when deploying or scaling as compared to competitive solutions.
- Reduce endpoint security concerns by destroying desktops as soon as users log off.
- Drastically lower costs by pooling required infrastructure to drive down storage costs by up to 30% with a truly stateless desktop, but deliver the personalization end users expect.
- With updated Cloud Pod Architecture, scale to over 50,000 desktops across 50+ sites with improved failover characteristics, in a fraction of the time of traditional desktop virtualization models.

### Rich, Adaptive, and Collaborative User Experience

Horizon 7 provides end users with a consistently great experience across devices, locations, media, and connections. The latest Horizon 7 release delivers bandwidth utilization improvements of up to 50% to support more use cases across your organization alongside feature-rich capabilities and Blast Performance, which will ensure your end users can be as productive as possible at all times.



**Blast Performance includes:**

- **Blast Unity Touch** – Intuitive and contextual user experience across devices, making it easy to run Windows on mobile.
- **Blast Local Access** – Access to local devices, drives, USB, and device peripherals.
- **Horizon Clients with Blast** – Unified client for consistently great experience across devices and locations.
- **Blast Adaptive UX** – Optimized access across the WAN and LAN through an HTML browser or the Horizon client using either PCoIP or Blast Extreme display protocols. Blast Extreme is purpose-built and optimized for the mobile cloud, built on industry-standard H.264 protocol.
- **Blast Extreme Adaptive Transport (BEAT)**– BEAT maintains a great user experience across a wide variety of network types, ranging from corporate LAN to public Wi-Fi and mobile networks.
- **Blast Multimedia** – High-performance multimedia streaming for rich user experience
- **Blast 3D** – Rich virtualized graphics delivering workstation-class performance, including support for NVIDIA GRID vGPU with virtual desktops and RDSH hosted applications.
- **Blast Live Communications** – Fully optimized unified communications and real-time audio-video (RTAV) support. Horizon 7 now includes support for Microsoft Lync with Windows 10.

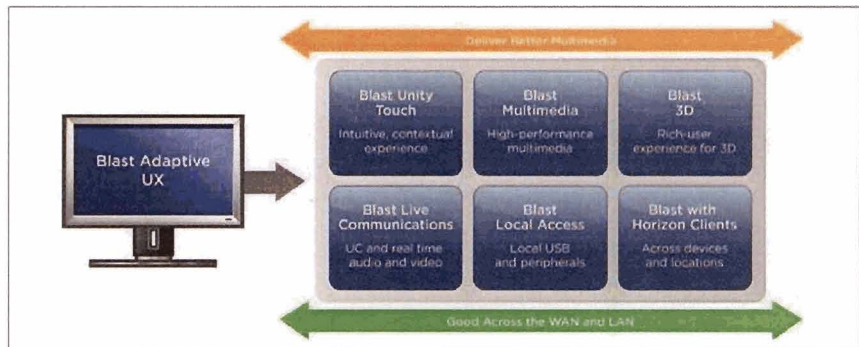


Figure 2. Horizon Blast Performance Delivers an Adaptive Experience Across Devices and Locations

**Session Collaboration**

With Session Collaboration, multiple users can view and modify the same desktop which can be very useful in healthcare, design, engineering, and education organizations for peer reviews, design iterations, and training. The desktop owner can invite multiple additional users to collaborate in real-time on his or her desktop and do so with a great user experience for all users.

**Smart Policies with Streamlined Access**

Improve end-user satisfaction by simplifying authentication across all desktop and application services while improving security with smarter, contextual, role-based policies:

- Support contextual, role-based security for end users that maps policies based on user, device, or location with ease.
- Get one-click, password-free access to Windows desktop services delivered by true SSO.





- Streamline identity management across identity sources and provide end users with easy access to resources through a single unified workspace.

### Complete Workspace Environment Management

Horizon 7 ensures that IT can consolidate control, automate delivery, and protect user compute resources through a single, tightly integrated platform.

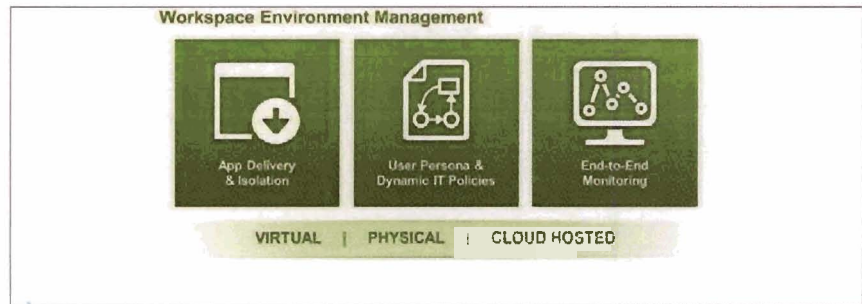


Figure 3. Horizon 7 Provides Complete Workspace Environment Management

### User Environment Management and Personalization

VMware User Environment Manager™ offers personalization and dynamic policy configuration across any virtual, physical, or cloud-based environment:

- Simplify end-user profile management by providing organizations with a single and scalable solution that leverages existing infrastructure.
- Provide end users with quick access to a Windows workspace and applications, with a personalized and consistent experience across devices and locations.

### Real-Time Application Delivery and Management

- Easily package applications to avoid compatibility issues.
- Instantly provision applications at scale.
- Dynamically attach applications to users, groups, or devices, even when users are logged on to their desktop.
- Provision, deliver, update, and retire applications in real time.

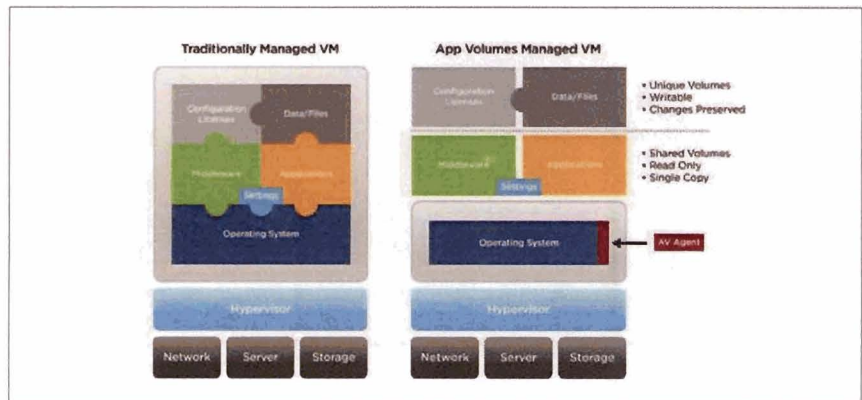


Figure 4. An App Volumes Managed VM Is Virtualized Above the OS; Applications, Data Files, Settings, Middleware, and Configuration Licenses Act as Separate Layers.



**Image Management**

- Support desktop and application provisioning through Horizon.
- Support VMware Mirage™ for streamlined image management across virtual data centers of physical and full clone virtual machines.

**Analytics and Automation**

- Cloud analytics with VMware vRealize® Operations™ for Desktops and Applications provides comprehensive visibility across VMware Horizon and Citrix XenApp and XenDesktop environments, allowing IT to optimize the health and performance of desktop and application services.

**Optimized for the Software-Defined Data Center**

Leverage and extend your expertise with VMware vSphere® to simply deliver desktop and application workloads. Horizon 7 extends the power of virtualization with virtual compute, virtual storage, and virtual networking and security to drive down costs, enhance the user experience, and deliver greater business agility.

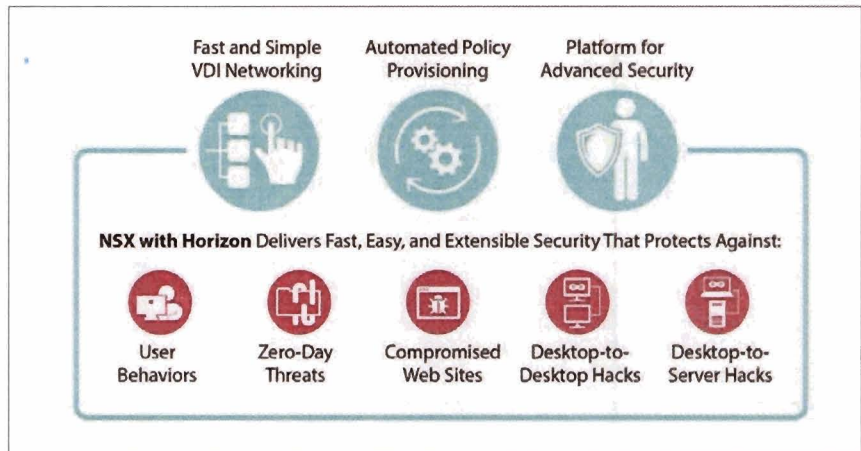


Figure 5. VMware NSX with Horizon

Horizon 7 includes support for VMware vSAN™ with all flash. vSAN automates storage provisioning and leverages direct-attached storage resources to drive down storage costs for desktop workloads. Customers can leverage vSAN-Ready Nodes and other hyperconverged infrastructure appliances to support easy, scalable, and cost-optimized desktop and application virtualization deployments. From a networking and security standpoint, Horizon with VMware NSX® (sold separately) further enables you to quickly and simply set up networking security policy for end users that stays with them across devices and locations regardless of any changes in the underlying physical infrastructure.



Make the Move Today

VMware Horizon (on-premises) is available in the following editions:

- **Horizon 7 Standard** – Simple, powerful VDI with a great user experience
- **Horizon 7 Advanced** – Cost-effective delivery of desktops and applications through a unified workspace
- **Horizon 7 Enterprise** – Desktops and applications delivered through a unified workspace with just-in-time management
- **Horizon Apps Standard** – Simple, powerful app virtualization with a great user experience
- **Horizon Apps Advanced** – Powerful app virtualization with just-in-time management

FEATURE	SUB-COMPONENT/ PRODUCT	HORIZON FOR LINUX	HORIZON STANDARD	HORIZON ADVANCED	HORIZON ENTERPRISE	HORIZON APPS STANDARD	HORIZON APPS ADVANCED
<b>License Entitlement</b>							
Concurrent User (CCU)		•	•	•	•	•	•
Named User				•	•	•	•
<b>Desktop and Applications</b>							
Windows Virtual Desktops	VMware Horizon		•	•	•		
Linux Desktops	VMware Horizon for Linux	•			•		
Unified Workspace - XA, RDSH, SaaS, ThinApp	VMware Identity Manager Standard			•	•	•	•
Published Applications (RDSH) and Session-Based Desktops	RDS Published Apps			•	•	•	•
Packaged Applications	VMware ThinApp		•	•	•	•	•
Blast Extreme Protocol	VMware Horizon	•	•	•	•	•	•
Session Collaboration	VMware Horizon				•		
Virtualization Pack for Skype for Business	VMware Horizon			•	•		•
Application and Desktop Access with Single Sign-On	VMware Identity Manager Standard			•	•	•	•
<b>Workspace Environment Management</b>							
<b>Image Management</b>							
Image Management for Physical Desktop	VMware Mirage			•	•		
<b>Desktop and Application Management</b>							
Real-Time Application Delivery	VMware App Volumes				•		•
Just-in-Time Delivery with Instant Clone Technology	VMware Horizon				•		•
<b>User Environment Management</b>							
User, Profile, and Policy Management	VMware User Environment Manager				•	•	•



FEATURE	SUB-COMPONENT/ PRODUCT	HORIZON FOR LINUX	HORIZON STANDARD	HORIZON ADVANCED	HORIZON ENTERPRISE	HORIZON APPS STANDARD	HORIZON APPS ADVANCED
<b>Cloud Analytics and Operations Management</b>							
Help Desk Tool	VMware Horizon				•		•
Operations Dashboard - Health Monitoring & Performance Analytics	VMware vRealize Operations for Horizon				•		
Capacity Management - Planning & Optimization	VMware vRealize Operations for Horizon				•		
<b>Infrastructure</b>							
<b>Storage</b>							
Virtual Storage	VMware vSAN Advanced for Desktop with all-Flash			•	•		
<b>Desktop Infrastructure</b>							
Cloud Infrastructure	VMware vSphere Desktop and VMware vCenter Desktop	•	•	•	•	•	•

Find Out More

For more information, visit [www.vmware.com/go/horizon7](http://www.vmware.com/go/horizon7).

For information or to purchase VMware products, call 877-4-VMWARE, visit <http://www.vmware.com>, or search online for an authorized reseller. For detailed specifications and requirements, refer to the product documentation.



# VMware Site Recovery Manager™ 8.2

## and vSphere® Replication™ 8.2

Simplify DR management and increase security with Photon OS-based SRM virtual appliance

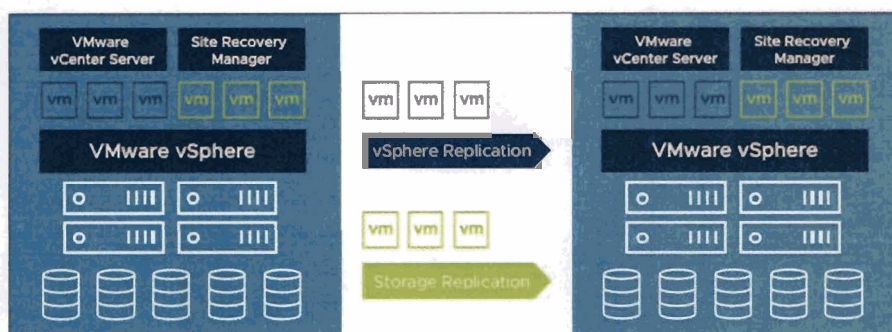
### AT A GLANCE

VMware Site Recovery Manager (SRM) is the industry-leading Disaster Recovery (DR) solution, can be consumed as a perpetual license or as-a-Service through VMware Site Recovery for VMware Cloud on AWS. SRM automates and orchestrates failover and failback, ensuring minimal downtime in case of a disaster. Built-in non-disruptive testing ensures your Recovery Time Objectives (RTOs) are met. SRM integrates with a vast ecosystem of underlying replication technologies, providing maximum flexibility.

vSphere Replication provides VM-based replication, supporting a large variety of underlying storage solutions with Recover Point Objectives (RPOs) ranging from 5 minutes to 24 hours.

### KEY BENEFITS

- Perform frequent non-disruptive testing, even during business hours, to ensure predictable recovery objectives
- Reduce recovery time to minutes with reliability using automated orchestration workflows
- Achieve zero-downtime application mobility orchestrating live migration of virtual machines at scale across sites
- Return to regular operations with ease using the original recovery plan through automated failback
- Protect thousands of virtual machines using centralized recovery plans and eliminate manual runbooks
- Protect investments and tailor RPOs using supported replication



**Figure 1:** Site Recovery Manager automates the failover and migration of virtual machines to a secondary site. Site Recovery Manager relies on either vSphere Replication or a broad range of storage-based replication products to replicate virtual machines to the recovery site.

## What are VMware Site Recovery Manager and vSphere Replication?

VMware Site Recovery Manager (SRM) is an automation software that integrates with an underlying replication technology to provide policy-based management, automated orchestration of recovery plans to minimize downtime in case of disasters, and to conduct non-disruptive testing of your DR plans. It is designed for virtual machines and scalable to manage all applications in a VMware vSphere® environment. To deliver flexibility and choice, it integrates natively with vSphere Replication and also supports a broad range of array-based replication solutions available from all major VMware storage partners.

Site Recovery Manager natively leverages the benefits of VMware vSphere and can also take advantage of the Software-Defined Data Center (SDDC) architecture, integrating with other VMware solutions, such as VMware NSX (network virtualization) and VMware vSAN (hyperconverged infrastructure).

By allowing users to test and automate the migration process of applications between sites at scale with minimal or no downtime, Site Recovery Manager fulfills the needs for a variety of use cases, such as disaster recovery, disaster avoidance, planned data center migrations, site-level load balancing or even application maintenance testing.

Site Recovery Manager ensures fast and highly predictable recovery times, simplifies management through automation and minimizes the total cost of ownership, making it the industry-leading solution to enable application availability and mobility across sites in private cloud environments.



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# VMware Site Recovery Manager™ 8.2

## and vSphere® Replication™ 8.2

Simplify DR management and increase security with Photon OS-based SRM virtual appliance

VMware vSphere Replication provides hypervisor-based virtual machine replication. It protects virtual machines from partial or complete site failures by replicating the virtual machines, regardless of the underlying storage array, from a primary site to a secondary site, between two clusters in a single site, and from multiple source sites to a single target site. vSphere Replication is configured on a per-VM basis allowing fine control over which VMs are replicated. After the initial replication, only changes to the VMs are replicated to minimize network bandwidth consumption.

Site Recovery Manager and vSphere Replication power VMware Site Recovery, a new disaster recovery as-a-service (DRaaS) offering for VMware Cloud™ on AWS, that simplifies deployment, provides reliable DR capabilities, and reduces overall costs.

### VMware Site Recovery for VMware Cloud on AWS?

VMware Site Recovery™ for VMware Cloud™ on AWS simplifies traditional disaster recovery, while providing reliable and cost-effective service. The service automates workload recovery in a DR event between on-premises datacenters and VMware Cloud on AWS, as well as between different instances of VMware Cloud on AWS. Built on top of enterprise-grade DR tools (VMware Site Recovery Manager, vSphere Replication) and global mega-scale cloud infrastructure (AWS), the service provides an end-to-end disaster recovery solution that is quick to deploy and leverages existing know-how. [Learn more.](#)

### What's new in version 8.2?

Version 8.2 of Site Recovery Manager and vSphere Replication simplifies DR management and increases security with Photon OS-based SRM virtual appliance.

#### New Features to Simplify day-to-day DR Management:

- Reduce layers of complexity associated with Windows Server VMs by leveraging a new operating system purpose-built for only DR functions
- Streamline DR deployment by installing the SRM virtual appliance directly from vCenter
- Automate management tasks with new SRM API methods and vRealize® Orchestrator™ plug-ins for SRM and vSphere Replication
- Increase visibility into the status of your DR protection, RPO violations and more with new SRM and vSphere Replication management packs for vRealize® Operations™



# VMware Site Recovery Manager™ 8.2

## and vSphere® Replication™ 8.2

Simplify DR management and increase security with Photon OS-based SRM virtual appliance

- Focus better on DR tasks with new Dark Mode user interface that reduces eye strain

### New Security Enhancements to Protect Your DR Configurations:

- Minimize attack-surface and security risks using a security-hardened, lean, Linux-based operating system
- Protect your data in-flight with new vSphere Replication support for encrypted VMs and network traffic encryption
- Backup your DR-plan configurations against malware or corruption with new Import/Export functions directly from the SRM interface
- Validate your security configurations with DR log forwarding to a remote syslog server

## Key Benefits and Capabilities

### Site Recovery Manager 8.2

#### Fast and Reliable Recovery

Site Recovery Manager automates every aspect of executing a recovery plan in order to accelerate recovery and eliminate the risks involved with manual processes.

- Automated orchestration workflows – perform a DR failover or a planned migration, and failback recovered virtual machines to the original site, all executing the same recovery plan with a single click.
- Automated recovery of network and security settings – Site Recovery Manager integrates with VMware NSX, eliminating the need to re-configure IP addresses on recovered virtual machines. Security policies are also preserved, further reducing configurations post-recovery.
- Non-disruptive recovery testing – perform automated failover testing as frequently as needed in an isolated network to avoid impact to production applications and ensure regulatory compliance through detailed reports.

#### Zero downtime application mobility

Site Recovery Manager can enable live migration of applications at scale between two sites when using a certified stretched solution. See the [compatibility guide](#).



- Orchestrated cross-vCenter vMotion – use recovery plans to orchestrate cross-vCenter vMotion® operations at scale when using stretched storage. Perform zero-downtime disaster avoidance and data center migrations.
- Stretched storage support – delivers benefits to both Site Recovery Manager and stretched storage users:



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# VMware Site Recovery Manager™ 8.2

## and vSphere® Replication™ 8.2

Simplify DR management and increase security with Photon OS-based SRM virtual appliance

- for Site Recovery Manager users, it improves recovery time and enables zero-downtime, zero-data-loss application mobility through orchestrated vMotion
- for stretched storage users, it adds the benefits of non-disruptive testing and orchestrated virtual machine recovery
- Integration with a broad range of replication solutions, allowing organizations to flexibly tailor topologies and recovery point objectives (RPO).

### Simplified DR management

From the initial setup to the on-going management, Site Recovery Manager delivers simple and policy-based operations thanks to automation and integration with SDDC technology.

- Centralized recovery plans – create and manage recovery plans for thousands of virtual machines directly from the intuitive vSphere Web Client powered by a new HTML5 user interface.
- Policy-based management – “storage-profile” protection groups identify protected datastores and automate the process of protecting and unprotecting virtual machines and adding and removing datastores from protection groups.
- Self-service provisioning – allow application tenants to provision disaster recovery protection using blueprints in VMware vRealize Automation™.

### vSphere Replication 8.2

**Minimal disaster impact** – Recovery Point Objectives (RPOs) as low as 5 minutes.

**Maximum flexibility** – Compatible with VMware vSAN and a broad ecosystem of storage arrays.

**Simplified management** – Managed directly from vSphere Web Client or using vRealize Orchestrator.

### How to buy

Site Recovery Manager is available in two editions to help you protect your environment according to business needs. [Learn more.](#)

Both editions of Site Recovery Manager are licensed “per protected virtual machine”.



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# VMware Site Recovery Manager™ 8.2 and vSphere® Replication™ 8.2

Simplify DR management and increase security with Photon OS-based SRM virtual appliance

**LEARN MORE**

For more information or to purchase VMware products, call 877- 4 - VMWARE (outside North America, +1-650 -427-5000), visit <http://www.vmware.com/products>, or search online for an authorized reseller. For detailed product specifications and system requirements, refer to the vSphere documentation.

Visit our websites:

- <https://www.vmware.com/products/site-recovery-manager.html>
- <https://cloud.vmware.com/vmware-site-recovery>

	SRM Standard	SRM Enterprise
Licensing	Up to 75 protected VMs per site	No licensing limitation on the number of protected VMs
Features		Exclusive features: <ul style="list-style-type: none"> <li>• VMware NSX integration</li> <li>• Orchestrated cross-vCenter vMotion</li> <li>• Stretched storage support</li> <li>• Storage policy-based management</li> </ul>

Details purchase options of **VMware Site Recovery for VMware Cloud on AWS** can be found on <https://cloud.vmware.com/vmware-site-recovery>.

**vSphere Replication** is included in vSphere Essentials Plus and higher.



# VMWARE vSPHERE

Una plataforma eficiente y segura para su cloud híbrida

## INFORMACIÓN BÁSICA

VMware vSphere®, la plataforma de cloud y virtualización líder del sector, es una plataforma eficiente y segura para clouds híbridas, que acelera la transformación digital proporcionando una gestión sencilla y eficiente según las necesidades, seguridad global integrada, una plataforma universal de aplicaciones y una perfecta experiencia de cloud híbrida. El resultado es una infraestructura escalable y segura que proporciona un rendimiento mejorado de las aplicaciones y que puede constituir la base de cualquier cloud.

## VENTAJAS PRINCIPALES

- Ejecución de cualquier aplicación en cualquier cloud
- Rendimiento acelerado de las aplicaciones
- Perfecta experiencia de cloud híbrida
- Gestión eficiente según las necesidades
- Seguridad global integrada
- Mejora multiplicada por 6 en el rendimiento de las aplicaciones con la memoria persistente de vSphere
- vSphere 6.7 es dos veces más rápido que vSphere 6.5 en términos de operaciones de vCenter por segundo.
- vSphere 6.7 tiene operaciones asociadas a DRS tres veces más rápidas que vSphere 6.5.
- El uso de memoria es tres veces menor con vCenter Server Appliance 6.7.

## Acerca de vSphere

VMware vSphere, la plataforma de cloud y virtualización líder del sector, es una plataforma eficiente y segura para sus clouds híbridas. Proporciona una base potente, flexible y segura para la agilidad empresarial que acelera la transformación digital hacia la cloud híbrida y el éxito en la economía digital. vSphere es compatible tanto con las cargas de trabajo ya existentes como con las cargas de trabajo de nueva generación gracias a una sencilla y eficiente gestión según las necesidades para elevar la experiencia del cliente a un nivel completamente nuevo; la seguridad global integrada que se inicia en el núcleo mediante un modelo basado en políticas de fácil funcionamiento; una plataforma de aplicaciones universal que admite nuevas cargas de trabajo y utiliza las innovaciones de hardware para mejorar el rendimiento; y una perfecta experiencia de cloud híbrida con fácil visibilidad, migración y gestión de cargas de trabajo entre las instalaciones y la cloud pública. Ahora puede ejecutar, gestionar, conectar y proteger sus aplicaciones en un entorno operativo común en toda su cloud híbrida.

VMware vSphere Platinum es una nueva edición de vSphere que protege las aplicaciones, la infraestructura, los datos y el acceso con las funcionalidades combinadas de las versiones básicas de VMware vSphere y VMware AppDefense™. Ofrece una forma simple y potente de mantener los flujos de trabajo existentes al tiempo que permite la colaboración entre los administradores de vSphere y los equipos de seguridad, conformidad y aplicaciones, consiguiendo una respuesta y una reparación con menos interrupciones en caso de que se produzca un incidente de seguridad. vSphere Platinum ofrece una solución diseñada específicamente para proteger la infraestructura y las aplicaciones aprovechando el hipervisor y el poder del aprendizaje automático, de una manera integrada, simple desde el punto de vista operativo y con una sobrecarga y un impacto mínimos en el rendimiento.

## Novedades de la versión 6.7

- **Mejoras en escalabilidad:** nuevos límites de configuración que admiten incluso los entornos de aplicaciones más grandes.
- **VMware vCenter Server® Appliance™ Linked Mode:** admite la modalidad enlazada para vCenter Server Appliance con Platform Services Controller integrado, enlaza hasta 15 instancias de vCenter sin necesidad de equilibradores de carga.
- **Herramienta VMware vCenter Server® Converge:** migre con facilidad la topología de vCenter Server Appliance con PSC externo a vCenter Server Appliance con PSC incorporado.
- **VMware vCenter Server® Appliance Back Up Scheduler:** planifique las copias de seguridad de vCenter Server Appliance; con API de REST completas para copia de seguridad y restauración.
- **Single Reboot:** reduzca considerablemente los tiempos de actualización omitiendo el restablecimiento del host.
- **vSphere Quick Boot:** reduzca los tiempos de aplicación de parches y actualización reiniciando el hipervisor ESXi™ sin reiniciar el host físico, omitiendo la inicialización del hardware, que lleva mucho tiempo.
- **Soporte de almacenamiento nativo 4K:** rendimiento mejorado según las necesidades para dar mejor servicio a infraestructuras grandes.



- **vSphere Client basado en HTML 5 con todas las funciones:** se ha añadido esta funcionalidad y una fácil gestión de los componentes conectados.
- **Seguridad según las necesidades:** seguridad basada en políticas que simplifica las operaciones de protección de la infraestructura.
- **Compatibilidad con Trusted Platform Module (TPM) 2.0 y TPM virtual:** ofrece seguridad mejorada para proteger el hipervisor y el sistema operativo invitado ante el acceso no autorizado.
- **Cross-vCenter Encrypted vMotion:** función de vMotion cifrado entre distintas instancias y versiones de vCenter.
- **Compatibilidad con Virtualization Based Security (VBS) de Microsoft:** ejecute máquinas virtuales Windows compatibles de forma segura en vSphere.
- **VMware AppDefense:** proteja la integridad de las aplicaciones que se ejecutan en vSphere para crear una mejor visibilidad, control de aplicaciones y respuesta a amenazas.
- **Mejoras de NVIDIA GRID vGPU:** soporte de las funciones de suspensión y reanudación para vGPU, para mejorar la gestión del ciclo de vida de los hosts. La compatibilidad con VMware vMotion® y las funcionalidades de instantánea permiten la migración de máquinas virtuales con vGPU a otro host durante los periodos de mantenimiento, reduciendo las interrupciones al usuario final.
- **Memoria persistente de vSphere:** soporte de memoria persistente, exponiéndola como almacenamiento de bloques o como memoria, para mejorar el rendimiento de las aplicaciones nuevas y existentes.
- **VMware vCenter Server® Appliance Hybrid Linked Mode:** visibilidad y capacidad de gestión unificadas en un entorno local de vSphere en ejecución en una versión y un entorno de cloud pública basado en vSphere, como por ejemplo VMware Cloud™ on AWS, en ejecución en otra versión de vSphere.
- **Enhanced vMotion Compatibility (EVC) por máquina virtual:** perfecta migración de cargas de trabajo entre las instalaciones y la cloud.
- **Aprovisionamiento de versiones mixtas entre instancias de vCenter:** simplifique el aprovisionamiento en entornos de cloud híbrida con distintas versiones de vCenter.



EDICIONES	VSPHERE STANDARD	VSPHERE ENTERPRISE PLUS	VSPHERE WITH OPERATIONS MANAGEMENT ENTERPRISE PLUS	VSPHERE PLATINUM
Casos de uso	Consolide el hardware de centro de datos y facilite la continuidad del negocio a través de funciones como la virtualización de servidores, el almacenamiento optimizado para máquinas virtuales y la migración dinámica. Comparta recursos del centro de datos más allá de los límites de los clústeres. Refuerce la seguridad de la virtualización mediante la protección mejorada de los puntos de acceso.	Mejore el rendimiento y la disponibilidad de las aplicaciones para aumentar la productividad de la empresa con vSphere. Tome el control de la gestión de recursos. Equilibre las cargas de trabajo y priorice el acceso a los recursos para garantizar un rendimiento óptimo de las aplicaciones más importantes. Distribuya rápidamente cargas de trabajo en su entorno virtual y migre una máquina virtual completa en ejecución de un servidor físico a otro sin tiempo de inactividad.	Añada automatización y gestión de operaciones inteligentes a su centro de datos mediante vSphere with Operations Management™. Supervise y gestione el estado y el rendimiento, planifique y optimice la capacidad, asigne y reequilibre de forma inteligente las cargas de trabajo para optimizar el rendimiento de las aplicaciones, utilice el análisis predictivo para recibir alertas inteligentes y garantice la conformidad con la seguridad reforzada.	Proteja las aplicaciones, la infraestructura, los datos y el acceso con las funciones combinadas de vSphere y VMware AppDefense™. Ofrezca una visibilidad y protección mejoradas con seguridad simple, liviana y escalable sin agentes que gestionar y unos costes generales mínimos.
				
Componentes del producto				
Derecho de licencia	Por 1 CPU	Por 1 CPU	Por 1 CPU	Por 1 CPU
Edición de vSphere	Standard	Enterprise Plus	Enterprise Plus	Enterprise Plus
Edición de vRealize® Operations™			Standard	
VMware AppDefense™				
Características del producto				
Virtualización de servidores	•	•	•	•
Almacenamiento con reconocimiento de máquinas virtuales	•	•	•	•
Características de almacenamiento basadas en políticas y en API	•	•	•	•
Compatibilidad con almacenamiento nativo 4 K	•	•	•	•
Memoria persistente de vSphere	•	•	•	•
Single Reboot	•	•	•	•
vSphere Quick Boot	•	•	•	•



EDICIONES	VSPHERE STANDARD	VSPHERE ENTERPRISE PLUS	VSPHERE WITH OPERATIONS MANAGEMENT ENTERPRISE PLUS	VSPHERE PLATINUM
Migración dinámica de cargas de trabajo	Cross - vCenter / Long Distance / Cross Cloud	Cross - vCenter / Long Distance / Cross Cloud	Cross - vCenter / Long Distance / Cross Cloud	Cross - vCenter / Long Distance / Cross Cloud
Protección de máquinas virtuales y datos	.	.	.	.
Compatibilidad con TPM 2.0.	.	.	.	.
Virtual TPM 2.0	.	.	.	.
Conformidad con FIPS 140-2	.	.	.	.
Compatibilidad con MSFT VBS	.	.	.	.
Garantizar el tiempo de actividad del sistema	.	.	.	.
Compartir los recursos del centro de datos	.	.	.	.
Seguridad de los terminales	.	.	.	.
Tolerancia a fallos	2 vCPU	8 vCPU	8 vCPU	8 vCPU
vCenter Hybrid Linked Mode	.	.	.	.
Enhanced vMotion Compatibility por máquina virtual	.	.	.	.
Clonación instantánea	.	.	.	.
Proactive High Availability	.	.	.	.
Cifrado a nivel de máquina virtual	.	.	.	.
vSphere Integrated Containers™	.	.	.	.
Gestión centralizada de redes	.	.	.	.
Equilibrio de carga	.	.	.	.
Priorizar recursos en máquinas virtuales	.	.	.	.
Aprovisionamiento e implementación rápidos	.	.	.	.
Gráficos acelerados para las máquinas virtuales	.	.	.	.
Compatibilidad de suspensión, reanudación, vMotion e instantánea para vGPU de NVIDIA	.	.	.	.
Supervisión del estado y gestión del rendimiento	.	.	.	.

EDICIONES	vSPHERE STANDARD	vSPHERE ENTERPRISE PLUS	vSPHERE WITH OPERATIONS MANAGEMENT ENTERPRISE PLUS	vSPHERE PLATINUM
Optimización de la capacidad			•	
Asignación y reequilibrio inteligentes de las cargas de trabajo			•	
Autoaprendizaje y análisis predictivo			•	
Conformidad mediante el refuerzo de la seguridad				
Detección automatizada de recursos de aplicaciones, intención y comunicación				•
Inteligencia contextual de estado de aplicaciones				•
Respuesta coordinada o automatizada a amenazas de seguridad				•
Integración con herramientas de operaciones de seguridad de terceros				

#### PARA OBTENER MÁS INFORMACIÓN

Para obtener más información sobre la compra de productos de VMware, llame al +34 914125000 en España (o marque el 877-4-VMWARE si se encuentra en Norteamérica o el 650-427-5000 desde el resto del mundo), visite <http://www.vmware.com/es> o busque un distribuidor autorizado en línea. Para obtener las especificaciones detalladas del producto y los requisitos del sistema, consulte la documentación de vSphere.

