

# VMware vCloud Suite 5.1

Licensing, Pricing and Packaging

WHITE PAPER



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## Executive Summary

Virtualization enables enterprises to deliver compute and memory resources as virtual machines and realize the benefits of pooling, abstraction and automation. However, making new workloads operational within a virtualized environment still entails binding a virtual machine to physical storage, networking, security and availability services that are provisioned by separate IT functions. Enterprises seek a more complete approach: infrastructure that leverages software-defined datacenter services to increase agility, simplify operations and deliver the best service-level agreements (SLAs) for all applications.

Customers have been asking for a simple way to build or buy an entire cloud infrastructure and VMware® is making it easier than ever to do so. All elements that you need to deliver a cloud are available in one easy-to-purchase offering: VMware vCloud® Suite 5.1.

VMware vCloud Suite 5.1 is a complete, integrated cloud infrastructure suite that simplifies IT operations while delivering the best SLAs for all applications. vCloud Suite combines VMware vSphere® Enterprise Plus Edition™, vCloud Director™, vCloud Connector™, vCloud Networking and Security (vCNS), VMware vCenter™ Site Recovery Manager™ (SRM), vCenter Operations Management Suite™, and VMware vFabric™ Application Director™. It covers the entire set of cloud infrastructure capabilities: virtualization, software-defined datacenter services, policy-based provisioning, disaster recovery, application management and operations management.

## vCloud Suite Licensing Overview

vCloud Suite 5.1 is licensed on a per-processor basis. This is the same licensing basis used for vSphere 5.x Enterprise Plus, which is included in all editions of vCloud Suite. All virtual machines running on processors properly licensed by vCloud Suite 5.1 editions are entitled to all suite components.

### Licensing Unit: Per-Processor (CPU)

A vCloud Suite 5.1 edition license activates all components (e.g., vSphere Enterprise Plus, vCloud Director) included in that vCloud Suite edition. Each physical processor in a server must have at least one assigned vCloud Suite 5.1 processor license key to run vCloud Suite. All physical processors in a server must be licensed with the same vCloud Suite edition. vCloud Suite 5.1 license keys can be deployed and managed in the same way as vSphere 5.x license keys.

### No Limits on Physical Resources

There are no restrictions on physical cores or physical RAM with vCloud Suite 5.1.

### No Limits on Number of Virtual Machines

There are no restrictions on the number of virtual machines that can run on each properly licensed vCloud Suite processor. All virtual machines can use all suite components included in the licensed vCloud Suite edition.

### Multiple Components Under a Single License

VMware vCloud Suite 5.1 combines multiple components (vSphere Enterprise Plus, vCloud Director, vCloud Networking and Security, etc.) into a single product with a single license. Many of these components are also available as standalone products licensed on a per-virtual machine basis. However, when these components are obtained through vCloud Suite, they are licensed per processor. All virtual machines running on a properly licensed vCloud Suite processor can use all components included in that vCloud Suite edition. Virtual machines running on processors not licensed with a vCloud Suite edition need a separate license to use those standalone products.

Although vCloud Suite is made up of several components, it is a single product with a single license. vCloud Suite is not decomposable: all the components of a vCloud Suite edition behave as a single entitlement. Upgrades can occur only between vCloud Suite editions. Suite components cannot be upgraded independently. For example, the vCloud Networking and Security Standard component included in vCloud Suite Standard cannot be independently upgraded; instead, vCloud Suite Standard can be upgraded to a higher edition. One processor license to vCloud Suite cannot be used across multiple processors. For example, one license cannot be used for a suite component (e.g., vCloud Director) on one processor and another component (e.g., vCenter Site Recovery Manager) on a different processor.

Standalone products can be added to your vCloud Suite deployment, provided they are licensed properly. For example, vCenter Site Recovery Manager Enterprise (licensed per virtual machine) can be deployed to virtual machines running vCloud Suite Standard (licensed per processor) as long as you have a sufficient number of licenses for both.

VMware recommends managing only a single vCloud Suite edition under a vCenter Server instance to simplify license management and compliance. If you must run multiple vCloud Suite editions (or both vCloud Suite and vSphere) under a single vCenter Server instance (mixed environment), you can still be compliant. To be compliant in a mixed environment, you

must ensure that all virtual machines are properly licensed for the functionality being used (e.g., vCenter Operations Management Suite). A virtual machine can be properly licensed either through a vCloud Suite license (on a per-processor basis) or a standalone product license (on a per-virtual machine basis).

### vSphere Version Downgrade

All editions of vCloud Suite 5.1 include vSphere 5.1 Enterprise Plus as a component. Customers interested in vCloud Suite but not yet ready to move to vSphere 5.1 can perform a version downgrade of the vSphere Enterprise Plus component included in vCloud Suite to vSphere 4.x Enterprise Plus. All of the other components of vCloud Suite remain at the version included in vCloud Suite. Many vCloud Suite components work with vSphere 4.x, provided vCenter Server (not included in vCloud Suite) is upgraded to version 5.1. See the VMware Product Interoperability Matrix for details. When ready, you can re-upgrade the version-downgraded vSphere 4.x to the original vSphere Enterprise Plus 5.1 included in vCloud Suite.

You can perform the vSphere version downgrade on the My VMware™ portal. Initially, one license key—the vCloud Suite license key—is generated for vCloud Suite. The vCloud Suite license key activates all suite components, including vSphere 5.1 Enterprise Plus unless otherwise noted. A vSphere version downgrade generates an additional license key for vSphere 4.x Enterprise Plus. When you perform a vSphere version downgrade on a license, you gain entitlement to vSphere 4.x Enterprise Plus but lose entitlement to vSphere 5.1 Enterprise Plus for that license. This vSphere version license key, after it is downgraded, cannot be merged with other vSphere license keys. You can re-upgrade the downgraded vSphere version keys on the My VMware portal. The re-upgrade removes the downgraded vSphere version license key and reentitles the license to vSphere 5.1 Enterprise Plus.

Learn more about the vSphere version-downgrade process at <http://kb.vmware.com/kb/2030013>.

### vCloud Suite Editions

VMware offers three vCloud Suite editions that provide different functionality at different price points, making it easy to license VMware vCloud Suite to meet specific requirements and use cases. (See Figure 1.) A support and subscription (SnS) contract is required for every vCloud Suite purchase.

For information on local-currency prices for vCloud Suite editions, visit <http://www.vmware.com/go/vcloud-suite-pricing>

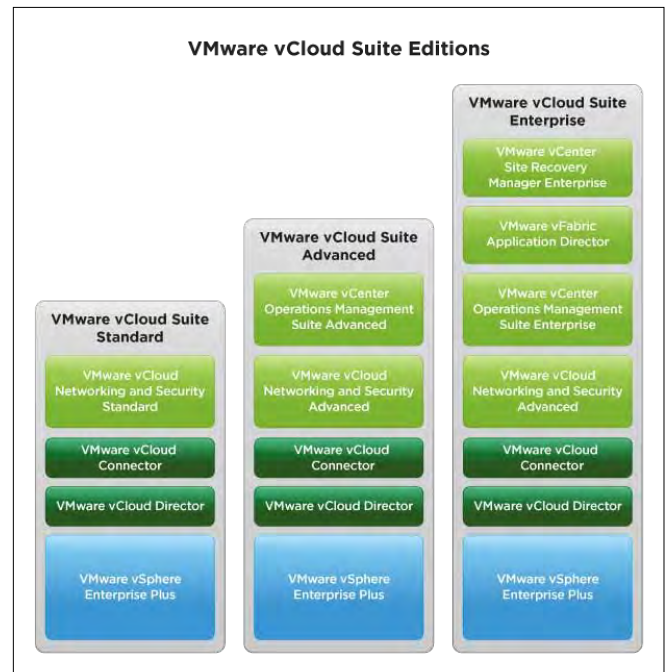


Figure 1. VMware vCloud Suite Edition Lineup

**vCloud Suite 5.1 Standard** lays the foundation for cloud infrastructure, increasing business agility with rapid and secure access to IT. vCloud Suite Standard builds on the industry-standard vSphere Enterprise Plus virtualization platform, adding vCloud Director for Infrastructure-as-a-Service (IaaS) agile IT delivery and vCloud Networking and Security Standard for software-defined security services.

**vCloud Suite 5.1 Advanced** is a robust offering that builds on the agile and secure IaaS platform of vCloud Suite Standard by including vCenter Operations Management Suite Advanced for performance and capacity management, and vCloud Networking and Security Advanced for advanced software-defined security services.

**vCloud Suite 5.1 Enterprise** is a comprehensive solution that safeguards revenue and business reputation with resilient, compliant IT resources. vCloud Suite Enterprise completes the cloud infrastructure suite by adding vCenter Site Recovery Manager for disaster-recovery automation, vFabric Application Director for cloud-enabled application provisioning, and vCenter Operations Management Suite Enterprise for configuration and compliance management.

### vCloud Suite Upgrades

Upgrades to vCloud Suite can be purchased from vSphere or from lower editions of vCloud Suite. If you have purchased standalone products that are now offered as vCloud Suite components, the VMware Fair Value Conversion Program protects your investment in those previous purchases when you upgrade to vCloud Suite.

You can purchase an upgrade from a vSphere edition to a vCloud Suite edition. You can also purchase an upgrade from a vCloud Suite edition to a higher vCloud Suite edition. For example, vSphere Enterprise Plus Edition customers can upgrade to vCloud Suite Standard, vCloud Suite Advanced or vCloud Suite Enterprise. When you upgrade supported licenses to a higher VMware vCloud Suite edition, the original license key is deactivated and a new license key is issued for the upgraded edition. The SnS fee is then calculated. This new SnS contract is extended by the value remaining on the base edition. This process simplifies SnS renewal by ensuring that only a single license key exists that has a single SnS contract with a single termination date. Upgrade paths to the VMware vCloud Suite are shown in Figure 2.

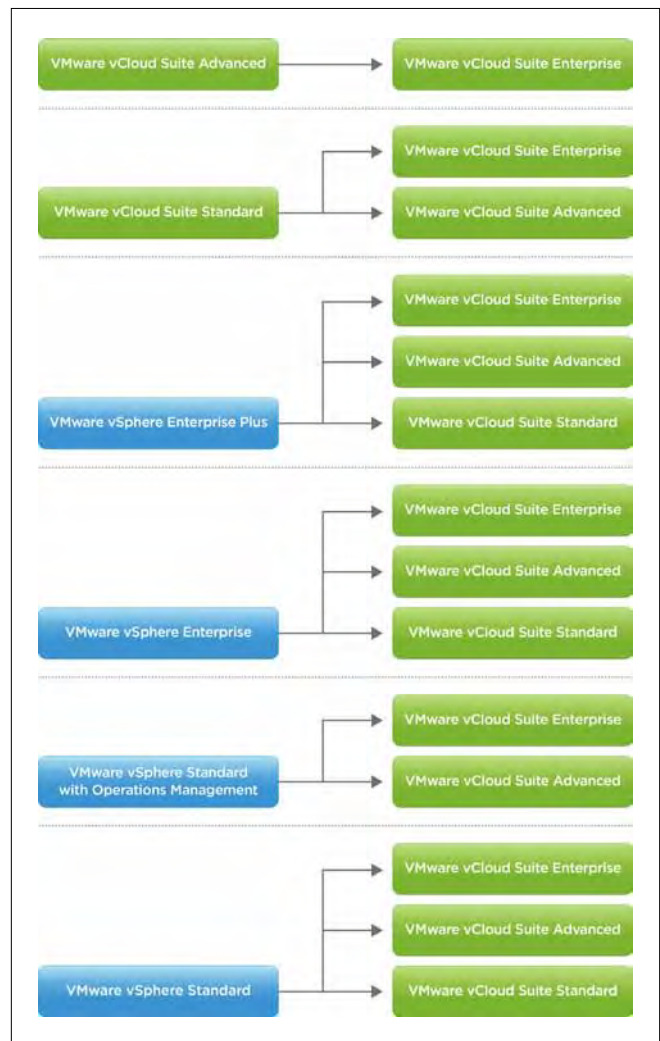


Figure 2. Upgrade Paths to VMware vCloud Suite

## Fair Value Conversion Program

The Fair Value Conversion Program enables customers to apply their existing investments in VMware standalone products now offered as vCloud Suite components. This program gives customers not ready to move to vCloud Suite a way to purchase standalone components licensed on a per-virtual machine basis and receive credit later when they move to vCloud Suite.

You can apply a defined percentage of the current list price of purchased, eligible VMware products toward the upgrade from vSphere or from a lower edition of vCloud Suite to a higher edition (see Figure 3). Eligible purchases made prior to the introduction of vCloud Suite receive 100 percent of the current list price; later purchases receive 90 percent. The Fair Value Conversion Program can discount the list upgrade price up to 80 percent. Licenses used in the Fair Value Conversion Program are deactivated, and a new license key for the purchased vCloud Suite edition is issued.

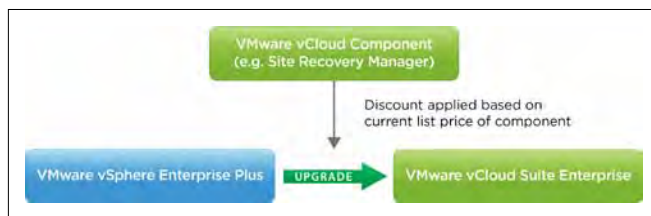


Figure 3. Fair Value Conversion Program

For additional details on the Fair Value Conversion Program, including terms and conditions, visit <http://www.vmware.com/go/vcloud-suite-licensing>.

## FAQ

### Q: Can I upgrade a single vCloud Suite component (e.g., vCenter Operations Management Suite)?

A: No, vCloud Suite is a single product with a single license that does not decompose into individual licenses for each component. Upgrades are available between vCloud Suite editions.

### Q: Can I use a component included in a vCloud Suite edition on a virtual machine running on a server that is not licensed with vCloud Suite?

A: No. vCloud Suite licenses only entitle virtual machines running on vCloud Suite licensed servers to the included components. Virtual machines running on servers not licensed with vCloud Suite need additional licenses to use that functionality.

### Q: Can I mix vSphere and vCloud Suite hosts? Can I mix editions of vCloud Suite?

A: Yes. However, you must ensure that all virtual machines are properly licensed for the used functionality (e.g., vCenter Operations Management Suite). A virtual machine can be properly licensed through either a vCloud Suite license (on a per-processor basis) or a standalone product license (on a per-virtual machine basis). To ease management and compliance, VMware recommends managing only a single vCloud Suite edition under a vCenter Server instance.

### Q: Can I deploy standalone products licensed per virtual machine on vCloud Suite licensed environments?

A: Yes. Standalone products can be added to your vCloud Suite deployment, provided those standalone products are licensed properly.

### Q: Is vCenter Server included in vCloud Suite?

A: No. vCenter Server is available separately as a standalone product and licensed on a per-instance basis.

### Q: On a vCloud Suite licensed processor, how many virtual machines can I run? How many virtual machines can use a given component in a vCloud Suite edition?

A: There is no restriction on the number of virtual machines you can run on a vCloud Suite licensed processor. All virtual machines on a properly licensed vCloud Suite processor can use all components included in a vCloud Suite edition.

### Q: Can I still buy components in vCloud Suite as standalone products on a per-virtual machine basis?

A: Yes. All components of vCloud Suite that were offered as standalone products on a per-virtual machine basis continue to be available.

### Q: If I license vCloud Suite Enterprise at my primary site (which includes vCenter Site Recovery Manager), what do I need to license the suite at my disaster-recovery site?

A: Consistent with existing VMware licensing policies, if the recovery site is not active when the primary site is active, only vSphere needs to be licensed at the recovery site. However, if the recovery site is active at the same time as the primary site, then the recovery site needs additional licenses for all capabilities that site is using, through either vCloud Suite or standalone products.