

CA ARCserve® Replication, CA ARCserve® High Availability and CA ARCserve® Content Distribution:

Pricing and Licensing Guide



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CA ARCserve® Replication and High Availability

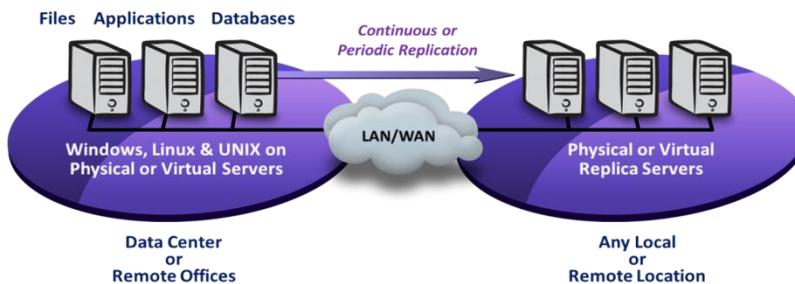
CA ARCserve® Replication

Overview

CA ARCserve Replication software, formerly known as CA XOSoft™ Replication, provides easy data migration and continuous data protection on-premises, off-premises, and in the Cloud for your application and files servers – all from a single, unified web management console. It includes many unique features such as continuous and periodic replication options, server group management, multi-stream replication, offline synchronization, bandwidth throttling, built-in 128-bit SSL encryption across the network and integration with CA ARCserve® Backup. And now you can use Amazon Cloud (AWS/EC2) for Windows server system, application and data protection.

Architecture

CA ARCserve Replication synchronizes your data and then replicates all ongoing changes from your production server to a replica server that can be located at the same site or across the globe at any remote location. It provides application-aware replication for automated configuration and transactional integrity for applications such as Microsoft Exchange, SQL Server, SharePoint, IIS, Dynamics CRM, as well as Oracle and Blackberry – all through a unified web-based management console. Other Windows applications can be protected by using the Custom Application Wizard or with the creation of a simple script.



Replication is typically performed on a real-time continuous basis or may be scheduled for periodic occurrence to help you balance available network resources with the desired level of protection.

The Data Rewind feature provides integrated Continuous Data Protection (CDP) that complements your periodic backups and delivers near-instantaneous recovery – helping you meet even your most aggressive recovery point objectives (RPOs) and recovery time objectives (RTOs).

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Supported Platforms

CA ARCserve Replication supports a wide range of operating systems and virtualization platforms.

- Microsoft Windows Server 2003, 2008 and 2008 R2 in Standard or Enterprise Edition (32-bit or 64-bit)
- Microsoft Windows SBS 2003 and 2008 in Standard or Premium Edition
- UNIX AIX 5.3 6.1, 7.1 Solaris 10, 11 SPARC & x64
- Linux RedHat 5, 5.5, 6 SuSE 9 10, 11
- VMware ESX 4.0, 4.1 and vSphere 4.0, 4.1, Virtual Center 2.5.x, vCenter Server 4.0x, 4.1x
- Microsoft Hyper-V 1.0, 2.0
- Citrix Xen Server 5.5, 5.6
- Amazon AWS/EC2 support for Windows 2003 32/64-bit and Windows 2008 R2 64-bit

Application-aware Replication

Application-aware means auto-configuration to enable fast, easy deployment as well as transactional integrity during replication. CA ARCserve Replication features application-aware replication for:

- Microsoft File Services for Windows Server 2003 and 2008 in Standard or Enterprise Edition (32-bit or 64-bit)
- Microsoft Exchange Server 2003 2007, and 2010 in Standard or Enterprise Edition
- Microsoft SQL Server 2005, 2008, 2008r2 and SQL Express 2005/MDAC
- Microsoft SharePoint Server 2007 and 2010
- Microsoft IIS versions 6, 7, and 7.5
- Microsoft Dynamics CRM v4
- Blackberry Enterprise Servers (BES)
- Oracle 10g, 11g

Additional Windows applications can be protected by using the new Custom Application Protection wizard or by writing a simple script. Other Linux and UNIX applications may be protected through simple scripting.

The complete list of currently supported platforms, operating systems and applications can be found on the [CA Support Website](#)



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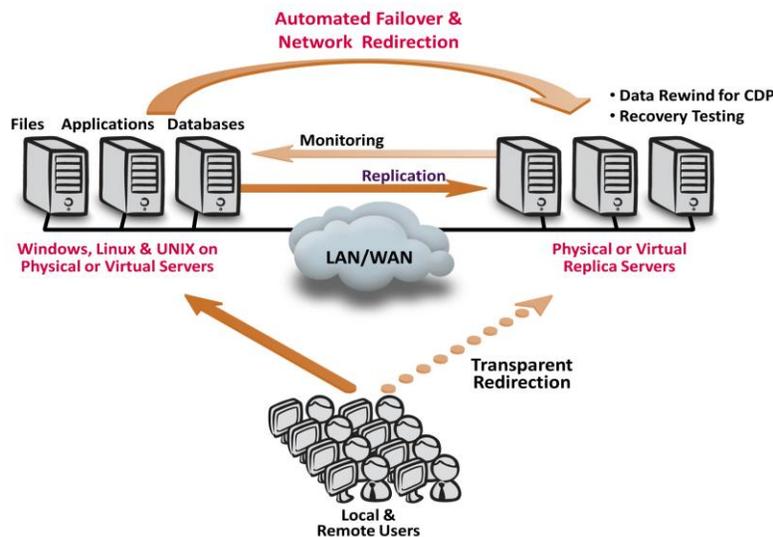
CA ARCserve® High Availability

Overview

CA ARCserve High Availability, previously known as CA XOssoft™ High Availability, is built on top of CA ARCserve Replication. It monitors servers and applications and can automatically failover and redirect end-users at the first sign of trouble. Or, administrators can first investigate the issue and use push-button failover and end-user redirection at their discretion. Once the primary server or application is repaired or replaced, CA ARCserve High Availability provides push-button failback to resynchronize the replica server with the production server. Then, workloads return to the primary server and replication and failover protection resumes as usual.

Architecture

CA ARCserve High Availability first synchronizes the data on your production server and a second replica/failover server (physical or virtual) that you build and deploy locally on the LAN, or remotely at any location, or in the Amazon Cloud (AWS/EC2). Alternatively, the Full System High Availability feature can be used to automate building your Windows replica server to speed deployment and shorten time-to-protection. Once synchronized, the system continuously replicates new data and all ongoing changes from your production server to the replica server.



It provides application-aware replication for automated configuration and transactional integrity for applications such as Exchange, SQL Server, SharePoint, IIS, Dynamics CRM, Oracle and Blackberry, and

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can be used with Windows, Linux and UNIX file servers too – all through a unified web-based management console that includes redundancy and failover for control system high availability. Other Windows applications can be protected by using the Custom Application Protection wizard or with the creation of a simple script. Protect other Linux/UNIX applications via a simple script.

Supported Platforms

CA ARCserve Replication supports a wide range of operating systems and virtualization platforms.

- Microsoft Windows Server 2003, 2008 and 2008R2 in Standard or Enterprise Edition (32-bit or 64-bit)
- Microsoft Windows SBS 2003 and 2008 in Standard or Premium Edition
- UNIX AIX 5.3 6.1, 7.1 Solaris 10, 11 SPARC & x64
- Linux RedHat 5, 5.5, 6 SuSE 9 10, 11
- VMware ESX 4.0, 4.1 and vSphere 4.0, 4.1, Virtual Center 2.5.x, vCenter Server 4.0x, 4.1x
- Microsoft Hyper-V 1.0, 2.0
- Citrix XenServer 5.5, 5.6
- Amazon AWS/EC2 support for Windows 2003 32/64-bit and Windows 2008 R2 64-bit

Application-aware Replication and Failover

Application-aware means auto-configuration for fast, easy deployment as well as transactional integrity during replication. CA ARCserve Replication features application-aware replication for:

- Microsoft File Services for Windows Server 2003 and 2008 in Standard or Enterprise Edition (32-bit or 64-bit)
- Microsoft Exchange Server 2003 2007, and 2010 in Standard or Enterprise Edition
- Microsoft SQL Server 2005, 2008, 2008r2 and SQL Express 2005/MDAC
- Microsoft SharePoint Server 2007 and 2010
- Microsoft IIS versions 6, 7, and 7.5
- Microsoft Dynamics CRM v4
- Blackberry Enterprise Servers (BES)
- Oracle 10g, 11g

Additional Windows application support can be achieved by using the new Custom Application Protection Wizard or through simple custom scripting. Other Linux/UNIX applications can be protected via simple script.

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The complete list of currently supported platforms, operating systems and applications can be found on the [CA Support Website](#)

CA ARCserve® Content Distribution

Overview

CA ARCserve Content Distribution helps you address the need for reliably spreading and managing information across a highly distributed environment. Built on the CA XOssoft Replication technology, CA XOssoft Content Distribution provides highly scalable real-time asynchronous data replication to thousands of replica servers and is available exclusively for the Microsoft Windows platform.

Architecture

This solution is designed for a distributed environment that has one Master host and a large number of Replica hosts. In this type of scenario, many of the Replica hosts are organized horizontally, as siblings on the same level, and not in hierarchical order as in parent-child architectures.

What's new and changed in r16?

The following are the changes made in pricing and licensing from r15 to r16.

1. Consolidated EMEA GBP/EURO SKU to match ARCserve Family structure
Consolidated CA ARCserve Replication and ARCserve High Availability EMEA GBP/ EURO SKU set into a single SKU set with different price points to reflect current exchange rates.
2. "Per Socket" Virtualization pricing
Few competitors offer actual per-socket pricing where the pricing is done per-socket, as each socket may run multiple VMs. With r16 we introduced actual per-socket pricing in all the ARCserve products (i.e., the number of VMs running on each socket is irrelevant from a licensing perspective).
3. Changed CA ARCserve Replication and High Availability Managed Capacity Program (MCP) "per server" pricing model to "per TB" model to be consistent with the ARCserve Backup Managed Capacity Pricing model.
This is a significant change to CA ARCserve Replication and CA ARCserve High Availability Managed Capacity Pricing model - we now price or measure in terms of "TB Protected", not "per server" (similar to that of ARCserve Backup and ARCserve D2D products MCP model).
4. Replication Only per TB Capacity Model

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Customers looking for Replication technology only can now purchase CA ARCserve Replication Only MCP at a lower price point when compared to CA ARCserve Replication and High Availability MCP.

5. Replication Only per Host VM Bundle

Customers now have an option to purchase “Replication only Per Host VM Bundle” or “Replication and High Availability Per Host VM bundle”. Please note, while the Replication-only-per-host VM bundle is less expensive, it does not include ARCserve High Availability. This bundle contains an unlimited number of “CA ARCserve Replication for Windows Virtual Machine with Assured Recovery” licenses to be used to protect virtual machines running on a single Hyper-V/VMware/Citrix Xen Server Hypervisor host. To protect Linux/UNIX Virtual Machines, customers will need to purchase the respective SKUs separately.

6. Linux VM 5-Packs SKUs

Starting from r16, “CA ARCserve Replication for Linux Virtual Machine” and “CA ARCserve High Availability r16 for Linux Virtual Machine” licenses can be purchased in 5 packs, similar to CA ARCserve Replication and High Availability Windows Virtual Machine 5-pack licenses.

Pricing and Licensing

CA ARCserve Replication and CA ARCserve High Availability support Windows, Linux and UNIX physical and Virtual servers. Customers can choose to purchase CA ARCserve r16 Replication and CA ARCserve High Availability r16 products from one of three different pricing models - Component level, Managed Capacity Pricing and Monthly subscription.

Component Level Pricing

Component level SKUs are licensed by product on a “per physical/virtual machine” basis. The minimum server license configuration is two, one on the production server and one on the replica server.

Licensing physical servers

For physical servers, pricing is based on the operating systems used on both the production and replica servers. Listed below are the different SKUs that are currently offered:

- Windows Enterprise Server SKU
- Windows Cluster Server SKU
- Windows Standard Server SKU
- Linux SKU
- Unix SKU



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Windows machines

All CA ARCserve Replication and High Availability Windows licenses are downward compatible but not vice versa. For example, a CA ARCserve Replication and/or CA ARCserve High Availability license for Microsoft Windows Enterprise license will also run on Windows Standard Edition or Windows Cluster Services. However a CA ARCserve Replication and/or CA ARCserve High Availability license for Windows Standard Edition will not run on Windows Enterprise Edition or on Windows Cluster Edition because those are higher in the Operating System version chain of command.

CA ARCserve Replication and High Availability Windows licenses are available in Virtual Machine configuration as well and are discounted accordingly. Unlike the physical Windows operating systems, there is no tiered hierarchy to different levels of Windows operating systems running inside a virtual machine.

For example, a CA ARCserve Replication and/or CA ARCserve High Availability Windows Virtual Machine license will run on any Windows Virtual Machine with any operating system edition or levels – e.g. Windows Standard Edition, Windows Cluster Virtual Node, Windows Enterprise Edition. Also all physical CA ARCserve Replication and/or CA ARCserve High Availability Windows licenses can be used to protect Virtual machines.

Please refer to the [‘Licensing Virtual Servers’](#) section for more details on licensing Virtual Machine.

Please refer to the following table for SKU codes:

SKU Name	SKU Code
CA ARCserve High Availability r16 for Windows Enterprise OS with Assured Recovery	CAXOHA160W00
CA ARCserve High Availability r16 for Windows Standard OS with Assured Recovery	CAXOHA160W00
CA ARCserve Replication r16 for Windows Enterprise OS with Assured Recovery	CAXORPE160W00
CA ARCserve Replication r16 for Windows Standard OS with Assured Recovery	CAXORPS160W00

Linux machines

For Linux, the licensing makes no distinction between brands or different levels of editions in each brand. All Linux Platforms are considered Linux under one license. Unlike the Windows operating systems, there is no tiered hierarchy to the different levels of Linux operating systems. Be sure to check the latest compatibility matrix for supported brands and revisions.

Linux licenses are available in a Virtual Machine configuration and are discounted accordingly. Any supported Linux server running as a virtual machine qualifies for this license type. Linux VMs are supported under all major hypervisors, including Microsoft Hyper-V, VMware, and Citrix Xen servers.



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UNIX machines

As with the CA ARCserve Replication and High Availability r15 licenses for Linux, the licensing engine makes no distinction between brands or between the different levels of each brand. All UNIX platforms are considered UNIX under the license. Again, as with the Linux operating systems, there is no tiered hierarchy to the different levels as there is with the Windows operating systems. Be sure to check the latest compatibility matrix for supported brands and revisions of the UNIX Operating System flavors.

One difference between the CA ARCserve Replication and/or CA ARCserve High Availability licenses for Linux and UNIX is that the licenses for UNIX are not available in virtual machine Operating System platforms. This means that UNIX operating systems running as a Virtual Machine still require a full UNIX physical server license.

Please refer to the following table for SKU codes:

SKU Name	SKU Code
CA ARCserve High Availability r16 for Unix Server OS	CAXOHAU160W00
CA ARCserve High Availability r16 for Linux Server OS	CAXOHAL160W00
CA ARCserve Replication r16 for Unix Server OS	CAXORPU160W00
CA ARCserve Replication r16 for Linux Server OS	CAXORPL160W00

Licensing Virtual Servers

For Virtual machines, licensing is based on the number of “production” Virtual Machines (VMs) being protected and the number of VMs being used for the replica server(s).

We offer a wide variety of licenses to choose from, based on the “Type” of operating system of virtual Machines (Windows/Linux), Type of protection (Per-Machine/Per-Host) and Type of Product (CA ARCserve Replication and CA ARCserve High Availability)

Types of VM licenses:

Per-VM licenses

As the name suggests, the licensing is done per Virtual Machine. Please refer to the following table for SKU codes:

SKU Name	SKU Code
CA ARCserve High Availability r16 for Windows Virtual Machine with Assured Recovery	CAXOHAV160W00
CA ARCserve High Availability r16 for Linux Virtual Machine	CAXOHAX160W00
CA ARCserve Replication r16 for Windows Virtual Machine with Assured Recovery	CAXORPV160W00
CA ARCserve Replication r16 for Linux Virtual Machine	CAXORPX160W00



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Per-Socket Licenses

New in r16, Licensing is done per socket and includes 20 copies of CA ARCserve Replication/CA ARCserve High Availability for virtual machines with Assured Recovery licenses.

Please refer to the following table for SKU codes:

SKU Name	SKU Code
CA ARCserve High Availability r16 for Windows VM Protection per Socket License	CAXOHSV160W00
CA ARCserve Replication r16 for Windows VM Protection per Socket License	CAXORSV160W00

5-pack VM licenses

Bundle of 5 “per-VM” licenses. For use when customer wants to protect only up to 5 Virtual Machines but not the entire VM Host System. The 5 pack can be split across multiple systems.

Please refer to the following table for SKU codes:

SKU Name	SKU Code
CA ARCserve High Availability r16 for Windows Virtual Machine with Assured Recovery - 5 Pack	CAXOHAV160W05
CA ARCserve High Availability r16 for Linux Virtual Machine - 5 Pack	CAXOHAX160W05
CA ARCserve Replication r16 for Windows Virtual Machine with Assured Recovery - 5 Pack	CAXORPV160W05
CA ARCserve Replication r16 for Linux Virtual Machine - 5 Pack	CAXORPX160W05

Per-Host Licenses

Licensed per Hypervisor host. For use when there are many Virtual Machines on a SINGLE HOST server (Hyper-V / VMware / Citrix) that require protection. These licenses cannot be shared between multiple HOST Servers.

1 copy of “CA ARCserve Replication/High Availability r16 for Windows with Assured Recovery - VM Protection per Host License” contains -

- 1 copy of CA ARCserve High Availability r16 for Windows Enterprise OS with Assured Recovery License
- Unlimited* Distribution of “CA ARCserve High Availability r16 for Windows Virtual Machine with Assured Recovery” licenses.

*Unlimited VM HA + AR agents can only be used on server host virtual machines

The per-host license only covers Windows Virtual Machines. Customers will need to purchase licenses for Linux VMs separately.



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Please refer to the following table for SKU codes:

SKU Name	SKU Code
CA ARCserve High Availability r16 for Windows VM Protection per Host License	CAXOHAH160W00
CA ARCserve Replication r16 for Windows VM Protection per Host License	CAXORPH160W00

Upgrades and Maintenance Renewals

Customers cannot upgrade from the earlier/current version of “CA ARCserve Replication r16 for Windows Virtual Machine with Assured Recovery” to “CA ARCserve Replication r16 for Windows Virtual Machine with Assured Recovery - 5 Pack” or from “CA ARCserve High Availability r16 for Linux Virtual Machine” to “CA ARCserve High Availability r16 for Linux Virtual Machine - 5 Pack” SKU.

We do not allow any conversions from a single VM license to 5 Packs /per-socket/per-VM licenses.

However, we have created maintenance renewals for 5-packs in r16. Please refer to the following table for the Maintenance Renewal SKU codes:

SKU Names	Maintenance Renewal SKU codes
CA ARCserve Replication r15 for Windows with Assured Recovery - Virtual Machine 5-Pack	GMRRNAPV530W0
CA ARCserve High Availability r16 for Windows with Assured Recovery - Virtual Machine 5-Pack	GMRHAAPV530W0
CA ARCserve Replication r16 for Linux Virtual Machine - 5 Pack	CAXORPX160W05
CA ARCserve High Availability r16 for Linux Virtual Machine - 5 Pack	GMROHAXV510W0
CA ARCserve Replication r15 for Windows with Assured Recovery - VM Protection per Host License	GMRXORPHV10W0
CA ARCserve High Availability r16 for Windows with Assured Recovery - VM Protection per Host License	GMRXOHAHV10W0
CA ARCserve Replication r15 for Windows with Assured Recovery - VM Protection per Socket License	GMRXORSVM10W0
CA ARCserve High Availability r16 for Windows with Assured Recovery - VM Protection per Socket License	GMRXOHSVH10W0

Licensing in Cluster Environments:

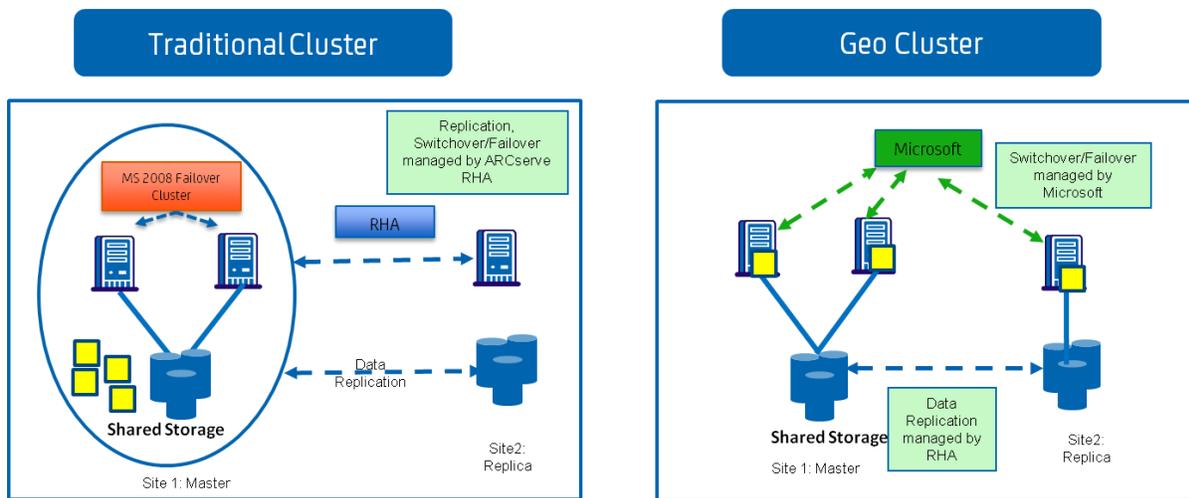
When working with physical, clustered Windows servers, one “CA ARCserve Replication r16 for Windows Cluster Resource Group with Assured Recovery “ or “CA ARCserve High Availability r16 for Windows

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Cluster Resource Group with Assured Recovery” is required **per Active Cluster Resource Group** or “**per cluster node**” depending on the type of cluster you are protecting.

Below, we show two kinds of Microsoft cluster technologies – Microsoft traditional cluster technology and their new Geo cluster technology.



- Two cluster nodes with shared storage - “Active/Passive”, **4 cluster resource groups** - 2 for SQL and 2 for Exchange
- Requires **Four** “CA ARCserve Replication/High Availability r16 for Windows Cluster Resource Group with Assured Recovery” licenses - one **for each cluster resource group**

- Two geographically distributed cluster nodes with shared storage - “Active/Passive”, **4 cluster resource groups** - 2 for SQL and 2 for Exchange
- Requires **Three** RHA Cluster licenses - one **for each node** protected Storage Resource Group

Traditional Clusters:

In a traditional shared storage environment, shared storage is a single point of failure. CA ARCserve Replication and High Availability provides replication and high availability services between the two nodes in the shared storage environment to a third node with a complete offsite copy.

In this kind of cluster environment, ARCserve Replication and High Availability replicates data from master site to replica site. If it detects failure on the shared storage disk, our software will initiate the failover.

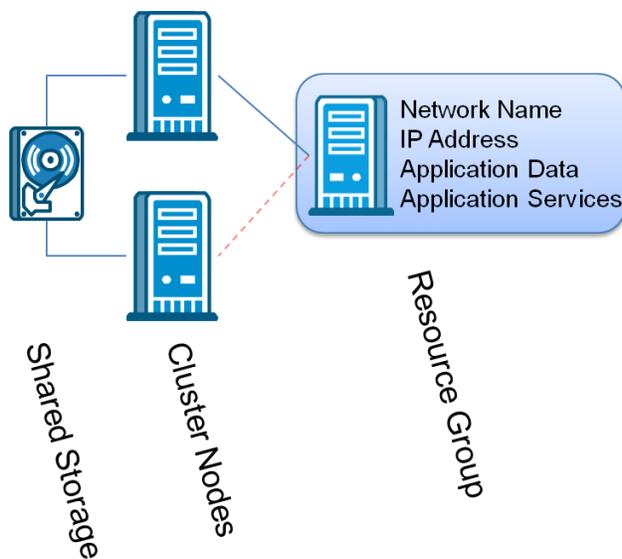
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In this case, we provide Replication and High Availability protection on the shared storage and we consume a “CA ARCserve Replication/High Availability r16 for Windows Cluster Resource Group with Assured Recovery” license for each protected Storage Resource Group.

Example: Basic Active-passive cluster configuration

The most basic and the most common cluster configuration is shown below. This cluster has two physical cluster nodes and a common shared storage device.



• Basic Cluster

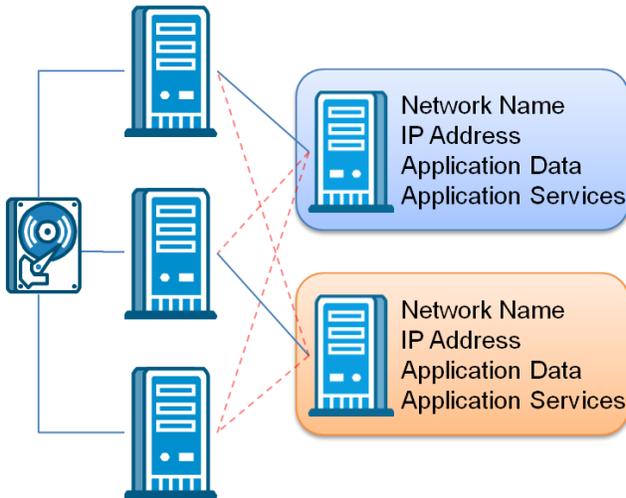
- Two nodes
- Shared storage
- “Active/Passive”
- Single resource group can move between nodes

There is one cluster resource that runs on one cluster node or the other. This is commonly referred to as an “active/passive” cluster.

This example requires one “CA ARCserve Replication r16 for Windows Cluster Resource Group with Assured Recovery” or “CA ARCserve High Availability r16 for Windows Cluster Resource Group with Assured Recovery” license for this side of the scenario (plus one more appropriate license for the other side of the protection scenario.) As a note, replicating from a cluster to a stand-alone machine is fully supported with CA ARCserve r16 Replication and High Availability.

Example: Cluster Resource Groups configuration

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- Advanced Cluster
 - Three nodes
 - Two resource groups
 - “Active / Active / Passive”

The example here shows a slightly more complex Microsoft cluster configuration. Here, there are three cluster nodes supporting two cluster resource groups.

As two of these nodes will be running a cluster resource group at any given time, this configuration may be referred to as an active/active/passive cluster configuration. This example would require two CA ARCserve r16 Replication and High Availability for Cluster Operating System license for this portion of the protection scenario (plus one more appropriate license for the “Replica”/destination side of the protection scenario.)

Geo Cluster:

With Windows 2008 geo-cluster technology Microsoft removed the dependency of having all cluster nodes on the same subnet. This means that now it is possible to geographically distribute the shared disk avoiding the single point of failure, thus eliminating your storage as a single point of failure.

Microsoft also allows users to configure Heartbeat Timeout and do the failover and failback operations as we do with our CA ARCserve Replication and High Availability product.

So what’s the role of CA ARCserve Replication and High Availability here?

Microsoft geo-clusters require a third-party data replication solution for offsite disaster recovery protection in addition to server high availability. We fill that gap with our product.



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We provide “value-add” support for Microsoft Failover Clustering as a Replication provider. CA ARCserve Replication and High Availability Plug-in and Engine are deployed on each cluster node and will do the job of “data mover” only and copy data between cluster nodes. Failover and Failback would be managed by Microsoft.

Also, we will not see the MFSC 2008 cluster scenarios in the existing RHA manager. It is managed from within the cluster MMC GUI.

The license count we consume is the same as the number of cluster nodes, no matter how many CA ARCserve RHA disk resources are in use.

If any portion of a Microsoft Windows Cluster is configured within a virtual server environment, then CA ARCserve Replication and/or CA ARCserve High Availability Virtual Machine licenses (refer to the [“Licensing in Virtual Environments”](#) section) can be substituted for Cluster licenses.

Cluster resource groups vs. cluster nodes

An important distinction to make is that the number of cluster nodes is not the same as the number of resource groups. Cluster nodes are the stand-alone servers or machines that are joined together to form a clustered server.

Note: that the number of nodes is not equal to the number of groups

So, when it comes to using CA ARCserve r16 Replication and High Availability with Microsoft clusters, the bottom line is that CA ARCserve r16 Replication and High Availability needs one “CA ARCserve Replication/High Availability r16 for Windows Cluster Resource Group with Assured Recovery”:

- for each protected cluster resource group in case of shared storage cluster configuration and
- For each cluster node in case of Microsoft geo-clusters

When determining license requirements for a customer using a cluster, it is important to distinguish between shared storage cluster configuration and geographically distributed cluster configuration and determine the required licenses accordingly.

Please refer to the following table for the SKU codes:



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SKU Name	SKU Code
CA ARCserve High Availability r16 for Windows Cluster Resource Group with Assured Recovery	CAXOHAC160W00
CA ARCserve Replication r16 for Windows Cluster Resource Group with Assured Recovery	CAXORPC160W00

Pricing and Licensing in Cloud

R16 extends the current full system protection technology to Amazon cloud environments. Customers can utilize Amazon cloud resources as targets for Replication and High Availability and eliminate the need for costly dedicated disaster recovery data centers and the associated hardware, software, real estate, power, cooling and management overhead.

Full system Replication to Cloud

To get started with full system Replication to the Amazon EC2 cloud, users should first meet pre-requisites like owning an account with Amazon, creating Virtual Private Connection etc. as mentioned in the ARCserve Replication and High Availability Product documentation. Once the pre-requisites are met, users can add the Amazon account details to RHA and create/manage the new/existing replica instances in Amazon EC2. Once the account details are added and replica instances are prepared, users can create a replication-to-cloud scenario using scenario creation wizards in the CA ARCserve RHA manager. (Users should select the EC2 instance as replica.)

Cloud recovery instance is an Amazon EC2 instance with CA ARCserve Replication and High Availability Engine installed on it. It acts as a cloud appliance and holds all the replicated volumes of master servers. For every replicated master volume the Cloud repository instance/appliance creates and attaches an EBS volume of the same size.

For the instances running in the Cloud:

For Cloud Recovery Instance, customers will need to purchase 1 copy of “CA ARCserve Replication r16 for Windows VM Protection per Host License” or “CA ARCserve High Availability r16 for Windows VM Protection per Host License” depending on the type of scenario they create - Replication or High Availability scenario.

No additional licenses are required to stand up and run the Virtual Machine as a replica in the Cloud. But to failback to master server, customers will need 1 copy of “CA ARCserve Replication/High Availability

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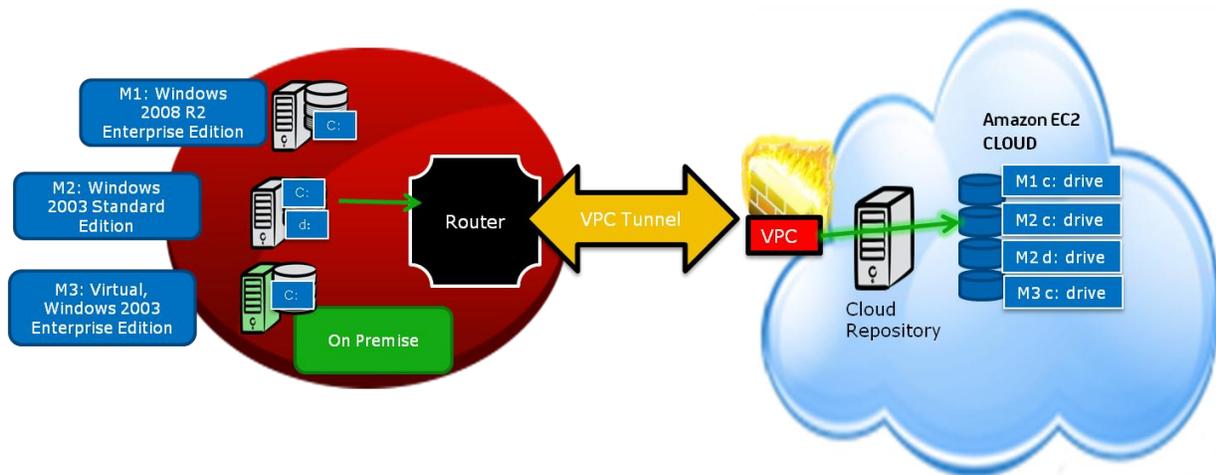


r16 for Windows Virtual Machine with Assured Recovery” for each RHA Replica to run reverse Synchronization/replication to Master in the customer site.

Also please note that customers need to pay Amazon for running instances on the Cloud. Pricing information is available at <http://aws.amazon.com/ec2/#pricing>

Example

In the below figure, customer is replicating three machines, M1 - Windows 2008 R2 Enterprise Edition with c: drive, M2 – Windows 2003 Standard Edition with c: and d: drive and M3 – Virtual Machine, Windows 2003 Enterprise Edition with c: drive, to the Amazon cloud. As you see in the figure, these three machines volumes are replicated as volumes of the cloud repository Instance.





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SKUs/Licenses required:

Machine Name	Physical/ Virtual	Operating System	SKU Names
M1	Physical	Microsoft Windows 2008 R2 Enterprise Edition	1 'CA ARCserve Replication r16 for Windows Enterprise OS with Assured Recovery'
M2	Physical	Windows 2003 Standard Edition	1 'CA ARCserve Replication r16 for Windows Standard OS with Assured Recovery'
M3	Virtual	Windows 2003 Standard Edition	1 'CA ARCserve Replication r16 for Windows Virtual Machine with Assured Recovery'
Cloud Repository	Virtual	Any supported OS	1 'CA ARCserve Replication r16 for Windows VM Protection per Host License'

Full system High Availability to Cloud

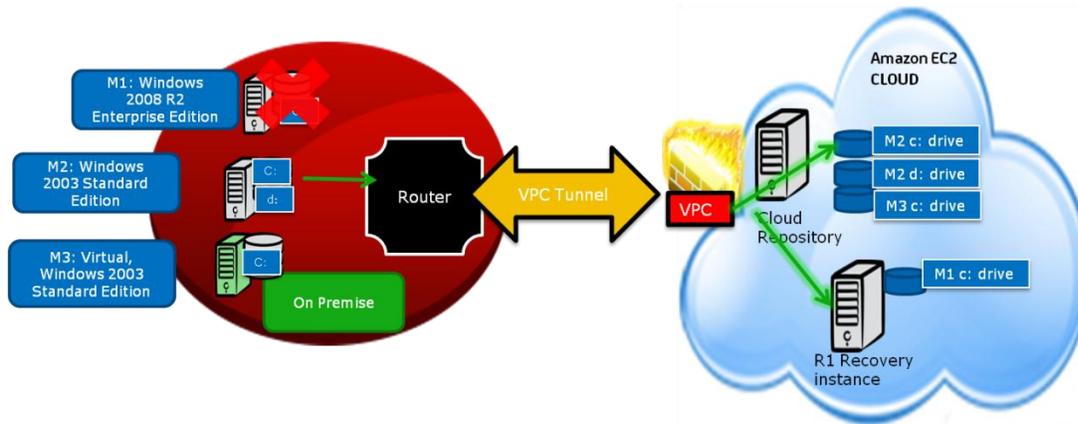
A Full System High Availability to Cloud scenario can be created easily as described in the documentation. When CA ARCserve RHA detects the failure on the master/production server, the failover EC2 instance is initiated from the AMI of the same major operating system version and processor architecture. The boot volume of the Failover EC2 instance is detached and attached to the EC2 RHA appliance and the required drivers are injected into the replicated volume. It then detaches and deletes the original EC2 instance boot volume and attaches it to the original failover EC2 instance boot volume to Failover instance. If the master has any volumes other than boot volumes, they are detached from the RHA cloud repository Instance and attached to the failed over Amazon EC2 instance. Once all this is done, the failover instance is started.

Example

In the above example, let's say M1 is down. A recovery instance, let's say R1, is created with the same OS and same processor architecture as Master, Windows 2008 Enterprise Edition. R1 boot volume is detached and attached to the cloud repository instance and the required drivers are copied to the replicated volume from R1's original boot volume. Once the copy is done, the R1's boot volume is detached and deleted. Now, the M1's replicated volume is attached to the recovery instance and is started.



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Customers don't have to pay anything to CA for the recovery instance running on the Cloud. Please refer below table for the licensing requirements:

Machine Name	Physical/Virtual	Operating System	SKU Name
M1	Physical	Microsoft Windows 2008 R2 Enterprise Edition	1 'CA ARCserve High Availability r16 for Windows Enterprise OS with Assured Recovery'
M2	Physical	Windows 2003 Standard Edition	1 'CA ARCserve High Availability r16 for Windows Standard OS with Assured Recovery'
M3	Virtual	Windows 2003 Standard Edition	1 'CA ARCserve High Availability r16 for Windows Virtual Machine with Assured Recovery'
Cloud Repository	Virtual	Any supported OS	1 'CA ARCserve High Availability r16 for Windows VM Protection per Host License'
R1*	Virtual	Microsoft Windows 2008 R2 Enterprise Edition	1 'CA ARCserve High Availability r16 for Windows Virtual Machine with Assured Recovery'

* Please note that customers don't need any additional licenses to stand up and run the Virtual Machine in the Cloud. But to failback to the master server in the customer site, they will need 1 copy of "CA ARCserve High Availability r16 for Windows Virtual Machine with Assured Recovery" for each Replica to run reverse Sync/replication to Master in the customer site.

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Managed Capacity Pricing

The second way of purchasing CA ARCserve Replication and CA ARCserve High Availability is the Managed Capacity Pricing (MCP) model which has six licensing models.



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Managed Capacity Program Options	Description
<p>Option 1: CA ARCserve All-Inclusive Managed Capacity Program</p>	<p>CA ARCserve All-Inclusive Managed Capacity Program (MCP) provides unlimited access to the CA ARCserve Family of products listed below. Pricing is based on protected storage capacity (i.e. the amount of storage or data being protected).</p> <ul style="list-style-type: none"> ✓ CA ARCserve® Backup r16 ✓ CA ARCserve® D2D r16* ✓ CA ARCserve® Replication r16 ✓ CA ARCserve® High Availability r16 and ✓ CA ARCserve® Central Protection Applications – which include the below applications <ul style="list-style-type: none"> ○ CA ARCserve® Central Protection Manager ○ CA ARCserve® Central Reporting ○ CA ARCserve® Central Virtual Standby ○ CA ARCserve® Central Host-Based VM Backup
<p>Option 2: CA ARCserve Backup and CA Replication and High Availability Managed Capacity Program</p>	<p>CA ARCserve® Backup and CA ARCserve® Replication and High Availability Managed Capacity Program work just like the All-Inclusive program but licensing is limited to ONLY the below products</p> <ul style="list-style-type: none"> ✓ CA ARCserve Backup ✓ CA ARCserve Replication ✓ CA ARCserve High Availability <p>It DOES NOT include access to</p> <ul style="list-style-type: none"> × CA ARCserve D2D or × CA ARCserve Central Protection Applications
<p>Option 3: CA ARCserve Backup ONLY Managed Capacity Program</p>	<p>CA ARCserve Backup ONLY Managed Capacity Program works just like the All-Inclusive program but licensing is limited to ONLY the below product</p> <ul style="list-style-type: none"> ✓ CA ARCserve Backup product <p>It DOES NOT include access to</p> <ul style="list-style-type: none"> × CA ARCserve D2D × CA ARCserve Replication × CA ARCserve High Availability × CA ARCserve Central Protection Applications



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<p>Option 4: CA ARCserve D2D ONLY Managed Capacity Program</p>	<p>CA ARCserve D2D ONLY Managed Capacity Program works just like the All-Inclusive program but licensing is limited to ONLY the below products</p> <ul style="list-style-type: none"> ✓ CA ARCserve D2D* ✓ CA ARCserve Central Protection Applications – only the ones listed below <ul style="list-style-type: none"> ○ CA ARCserve Central Protection Manager for Windows ○ CA ARCserve Central Reporting for Windows <p>It DOES NOT include access to</p> <ul style="list-style-type: none"> × CA ARCserve Backup or × CA ARCserve Replication or × CA ARCserve High Availability or × CA ARCserve Central Protection Applications – below apps are NOT included <ul style="list-style-type: none"> ○ CA ARCserve Central Host-Based VM Backup for Windows ○ CA ARCserve Central Virtual Standby for Windows
<p>Option 5: CA ARCserve Replication and High Availability ONLY Managed Capacity Program</p>	<p>CA ARCserve Replication and High Availability ONLY Managed Capacity Program works just like the All-Inclusive program but licensing is limited to ONLY the below products–</p> <ul style="list-style-type: none"> ✓ CA ARCserve Replication and ✓ CA ARCserve High Availability components <p>It DOES NOT include access to</p> <ul style="list-style-type: none"> × CA ARCserve Backup or × CA ARCserve D2D or × CA ARCserve Central Protection Applications
<p>Option 6: CA ARCserve Replication ONLY Managed Capacity Program</p>	<p>CA ARCserve Replication ONLY Managed Capacity Program works just like the All-Inclusive program but licensing is limited to ONLY the below product–</p> <ul style="list-style-type: none"> ✓ CA ARCserve Replication <p>It DOES NOT include access to</p> <ul style="list-style-type: none"> × CA ARCserve High Availability × CA ARCserve Backup or × CA ARCserve D2D or × CA ARCserve Central Protection Applications

New per-TB pricing Model

A significant change from previous CA ARCserve Replication and High Availability MCP offerings is that the pricing is now based on “Protected Storage” with a minimum buy-in of 2 TB. R16 also introduces new “Replication Only” MCP, offering flexibility for customers to choose from.

This new MCP pricing model will maintain the existing ARCserve Backup MCP per TB tiers and discount structures, making it easier for customers, sales and partners to understand.



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How do we measure protected storage?

- MCP is licensed on the total amount of actively Replicated Data residing on all Replica servers*
- MCP Excludes Non-Replicated Data on Master and Replica hosts
- MCP Excludes Replicated Source Data on the Master
- MCP Excludes Data in Rewind Journals
- MCP Excludes Data in VSS Snapshots

* Includes servers acting as both a Master and Replica

Example:

Type	Master	Size	Total	Replica	Size	Total Active Replicated Data on all Replicas	MCP Tier
HA	1to1	1	1TB	=	1	1TB	= 2-4 TB
HA	1to1	4	500 GB	=	4	500 GB	= 2-4 TB
HA	Full System HA	10	500GB	=	1 – Hyper-V	500GB	= 5-10TB
Rep	1to1	1	1 TB	=	1	1Tb	= 2-4TB
Rep	Nto1	10	500GB	=	1	5TB	= 5-10TB
Rep	1toN	1	2TB	=	4	2TB	= 8TB
CD	1toN	1	1TB	=	150	1TB	= 150TB

MCP Migration

No special migration SKUs are available to move from the “per-server” model to the new “per-TB” MCP pricing model. Customers can purchase the old “per-server” Maintenance renewal SKUs if they want to continue with per-server pricing model. If they want to move to new “per-TB” pricing, they can true-up the number of TBs to be protected and purchase respective per-TB tier maintenance renewal SKUs.

If existing “per-server” customers wish to continue with the same pricing model and purchase additional capacity, contact the CA customer care team to re-activate “per-server” MCP SKUs in the system and purchase accordingly.

Please refer to the below table for CA ARCserve Replication r16 Managed capacity SKUs:



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SKU Description	SKU
CA ARCserve Replication r16 Managed Capacity 2-4TB	CAXORMC160W00
CA ARCserve Replication r16 Managed Capacity 5-10TB	CAXORMC160W01
CA ARCserve Replication r16 Managed Capacity 11-15TB	CAXORMC160W02
CA ARCserve Replication r16 Managed Capacity 16-25TB	CAXORMC160W03
CA ARCserve Replication r16 Managed Capacity 26-35TB	CAXORMC160W04
CA ARCserve Replication r16 Managed Capacity 36-45TB	CAXORMC160W05
CA ARCserve Replication r16 Managed Capacity 46-55TB	CAXORMC160W06
CA ARCserve Replication r16 Managed Capacity 56-65TB	CAXORMC160W07
CA ARCserve Replication r16 Managed Capacity 66-75TB	CAXORMC160W08
CA ARCserve Replication r16 Managed Capacity 76-85TB	CAXORMC160W09
CA ARCserve Replication r16 Managed Capacity 86-100TB	CAXORMC160W10
CA ARCserve Replication r16 Managed Capacity 101-120TB	CAXORMC160W11
CA ARCserve Replication r16 Managed Capacity 121-140TB	CAXORMC160W12
CA ARCserve Replication r16 Managed Capacity 141-160TB	CAXORMC160W13
CA ARCserve Replication r16 Managed Capacity 161-180TB	CAXORMC160W14
CA ARCserve Replication r16 Managed Capacity 181-200TB	CAXORMC160W15
CA ARCserve Replication r16 Managed Capacity >201TB	CAXORMC160W16

SKU Description	SKU
CA ARCserve High Availability r16 Managed Capacity 2-4TB	CAXOHMC160W00
CA ARCserve High Availability r16 Managed Capacity 5-10TB	CAXOHMC160W01
CA ARCserve High Availability r16 Managed Capacity 11-15TB	CAXOHMC160W02
CA ARCserve High Availability r16 Managed Capacity 16-25TB	CAXOHMC160W03
CA ARCserve High Availability r16 Managed Capacity 26-35TB	CAXOHMC160W04
CA ARCserve High Availability r16 Managed Capacity 36-45TB	CAXOHMC160W05
CA ARCserve High Availability r16 Managed Capacity 46-55TB	CAXOHMC160W06
CA ARCserve High Availability r16 Managed Capacity 56-65TB	CAXOHMC160W07
CA ARCserve High Availability r16 Managed Capacity 66-75TB	CAXOHMC160W08
CA ARCserve High Availability r16 Managed Capacity 76-85TB	CAXOHMC160W09
CA ARCserve High Availability r16 Managed Capacity 86-100TB	CAXOHMC160W10
CA ARCserve High Availability r16 Managed Capacity 101-120TB	CAXOHMC160W11
CA ARCserve High Availability r16 Managed Capacity 121-140TB	CAXOHMC160W12

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CA ARCserve High Availability r16 Managed Capacity 141-160TB	CAXOHMC160W13
CA ARCserve High Availability r16 Managed Capacity 161-180TB	CAXOHMC160W14
CA ARCserve High Availability r16 Managed Capacity 181-200TB	CAXOHMC160W15
CA ARCserve High Availability r16 Managed Capacity >201TB	CAXOHMC160W16

Upgrade, Renewal and Migration Licensing

CA ARCserve Replication and High Availability offers a combined, discounted upgrade path for existing customers whose maintenance has lapsed, or for new customers who are switching from a competing High Availability product. If the customer meets either of those criteria, they are eligible to purchase the upgrade SKUs.

The upgrade process is constructed to simplify the upgrade experience and is only concerned with identifying the Edition that you wish to upgrade to and is not concerned with the Edition you are upgrading from.

NOTE: If however, the customer does not own a prior CA ARCserve Replication and/or CA ARCserve High Availability product version or a comparable Competitive product to upgrade from, then they MUST purchase a Full Product License.

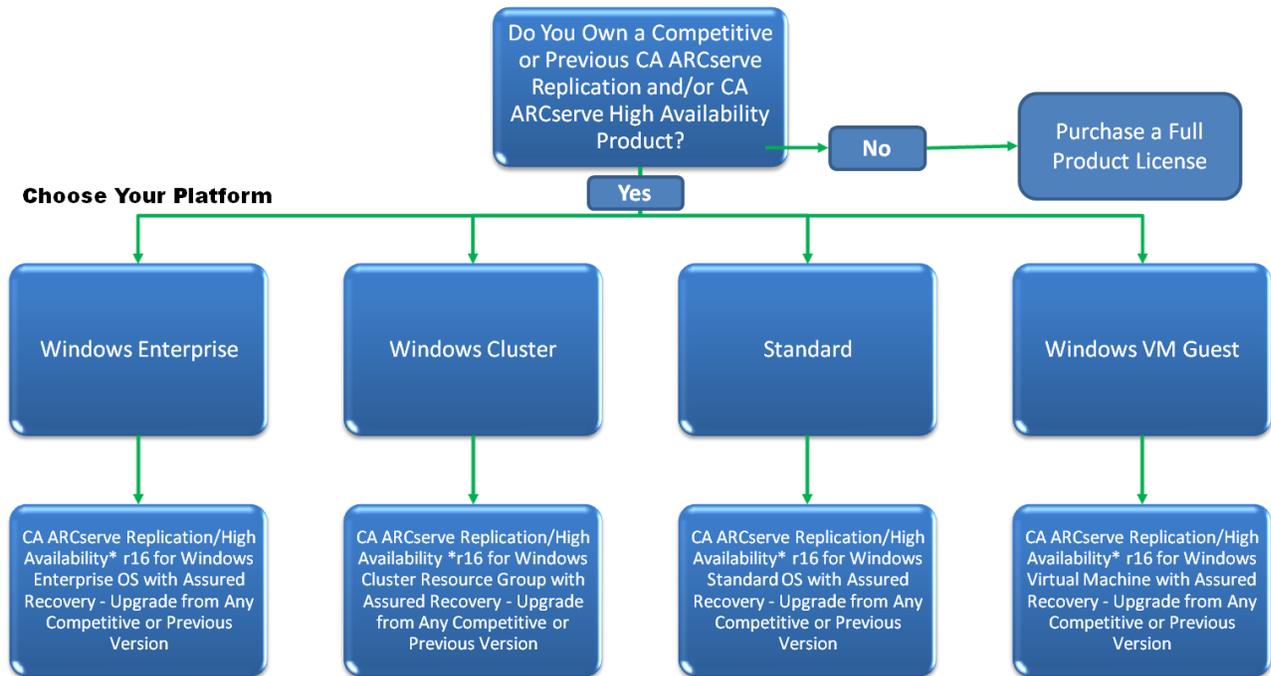
Upgrade from Any Competitive or Previous CA Version

To upgrade to the latest version of CA ARCserve Replication or CA ARCserve High Availability software, first identify the OS Edition and then choose the appropriate upgrade SKU.

Flowchart Representation:



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* Select Replication or High Availability as per the requirements

Fig: CA ARCserve r16 Replication and/or CA ARCserve High Availability for Windows upgrade from Any Competitive or Previous CA Version

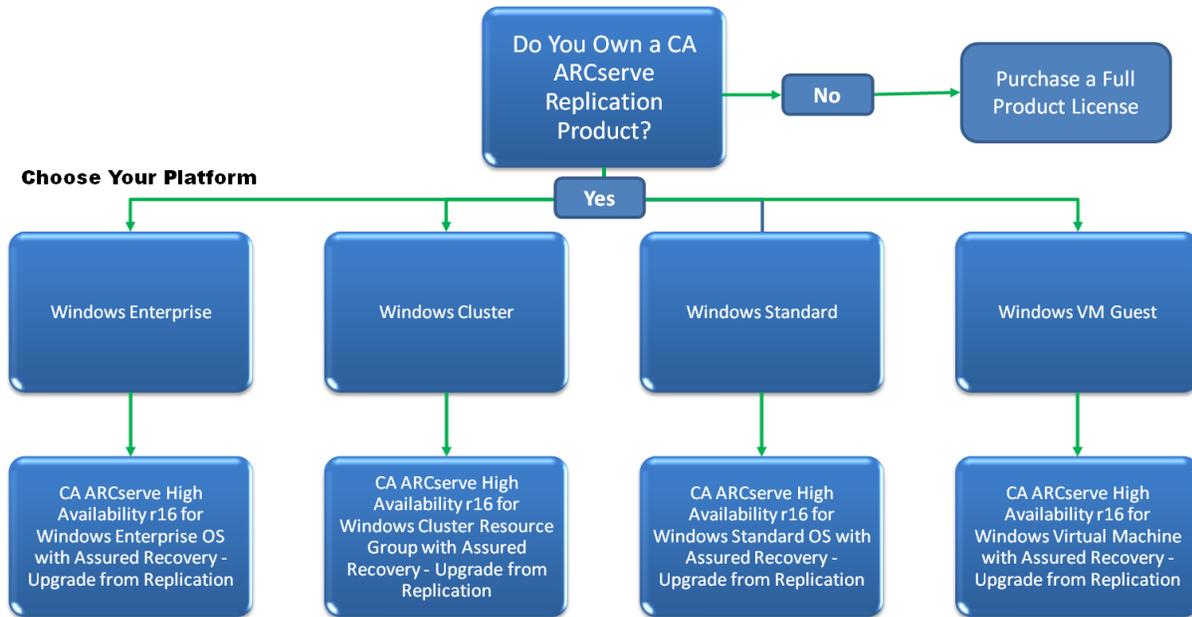
Upgrade from Replication to High Availability

To upgrade to the latest version of CA ARCserve High Availability software from same or older version of CA ARCserve Replication, first identify the OS Edition and then choose the appropriate upgrade SKU.

In this below example, we are upgrading to the latest release of CA ARCserve High Availability for Windows. The customer must select which Windows OS edition to install the CA ARCserve Replication or CA ARCserve High Availability software on when making their upgrade purchase.



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Upgrades to Windows Enterprise

This upgrade path is designed for customers who have undergone changes in the Windows OS edition they currently use in their environments. If they started out using CA XOSoft Replication or CA XOSoft High Availability software on a Windows Virtual Machine or a Windows Standard OS server and are now migrating to a Windows Cluster or a Windows Enterprise OS, then this is the upgrade path to chose.



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SKU Descriptions:

SKU Name	NA SKU Code	Prior Version/ Competitive Upgrade SKU	Maintenance Renewal SKU	SKU description
CA ARCserve High Availability r16 for Windows Enterprise OS with Assured Recovery	CAXOHAE160W00	CAXOHAE160WU4	GMRWHAAPE30W0	Technology – Replication and High Availability Supported OS – All supported Windows OS Editions as per the support matrix License Count – 1 per Physical Machine Assured Recovery – Yes, included
CA ARCserve High Availability r16 for Windows Cluster Resource Group with Assured Recovery	CAXOHAC160W00	CAXOHAC160WU4	GMRWHAAPC30W0	Technology – Replication and High Availability Supported OS – Except Windows Enterprise Edition, works on all supported Windows OS Editions as per the support matrix License Count – 1 per Active Cluster Resource Group Assured Recovery – Yes, included
CA ARCserve High Availability r16 for Windows Standard OS with Assured Recovery	CAXOHAS160W00	CAXOHAS160WU4	GMRWHAAPS30W0	Technology – Replication and High Availability Supported OS – Except Windows Enterprise Edition and Cluster Editions, works on all supported Windows OS Editions as per the support matrix License Count – 1 per Physical Machine Assured Recovery – Yes, included
CA ARCserve High Availability r16 for Windows Virtual Machine with Assured Recovery	CAXOHAV160W00	CAXOHAV160WU4	GMRWHAAPV30W0	Technology – Replication and High Availability Supported OS – Doesn't work on Physical Machines. Works on any Windows OS Editions running on virtual machines as per the support matrix. License Count – 1 Windows VM license Assured Recovery – Yes, included



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<p>CA ARCserve High Availability r16 for Windows Virtual Machine with Assured Recovery - 5 Pack</p>	<p>CAXOHAV160W05</p>	<p>GMRHAAPV530W0</p>	<p>Technology – Replication and High Availability Supported OS – Doesn't work on Physical Machines. Works on any Windows OS Editions running on virtual machines as per the support matrix. License Count – Pack of 5 "CA ARCserve High Availability r16 for Windows Virtual Machine with Assured Recovery" licenses. No restriction to use these 5 licenses on single hypervisor only, can be used to protect VMs running on different hypervisors. Windows VM license Assured Recovery – Yes, included</p>	
<p>CA ARCserve High Availability r16 for Unix Server OS</p>	<p>CAXOHAU160W00</p>	<p>CAXOHAU160WU4</p>	<p>GMRXOHAUS30W0</p>	<p>Technology – Replication and High Availability Supported OS – Any supported Unix Edition as per Support matrix License Count –1 per Unix Machine. Assured Recovery – No, Assured Recovery not supported on UNIX machines</p>
<p>CA ARCserve High Availability r16 for Linux Server OS</p>	<p>CAXOHAL160W00</p>	<p>CAXOHAL160WU4</p>	<p>GMRXOHALS30W0</p>	<p>Technology – Replication and High Availability Supported OS – Any supported Linux Edition as per Support matrix License Count –1 per Linux Machine. Assured Recovery – No, Assured Recovery not supported on Linux machines</p>
<p>CA ARCserve High Availability r16 for Linux Virtual Machine</p>	<p>CAXOHAX160W00</p>	<p>CAXOHAX160WU4</p>	<p>GMRXOHAXV30W0</p>	<p>Technology – Replication and High Availability Supported OS – Doesn't work on Physical Machines. Works on any supported Linux Flavor running on Virtual machine as per support matrix License Count – 1 per Linux Virtual Machine Assured Recovery – No Assured Recovery NOT supported for Linux Machines</p>



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<p>CA ARCserve High Availability r16 for Linux Virtual Machine - 5 Pack</p>	<p>CAXOHAX160W05</p>		<p>GMROHAXV510W0</p>	<p>Technology – Replication and High Availability Supported OS – Doesn't work on Physical Machines. Works on any supported Linux Edition running on Virtual machine as per support matrix License Count – Pack of 5 "CA ARCserve High Availability r16 for Linux Virtual Machine" licenses. No restriction to use these 5 licenses on single hypervisor only, can be used to protect VMs running on different hypervisors. Assured Recovery – No, Assured Recovery NOT supported for Linux Machines</p>
<p>CA ARCserve Replication r16 for Windows Enterprise OS with Assured Recovery</p>	<p>CAXORPE160W00</p>	<p>CAXORPE160WU4</p>	<p>GMRWANAPE30W0</p>	<p>Technology – Replication Only Supported OS – All supported Windows OS Editions as per the support matrix License Count – 1 per Physical Machine Assured Recovery – Yes, included</p>
<p>CA ARCserve Replication r16 for Windows Cluster Resource Group with Assured Recovery</p>	<p>CAXORPC160W00</p>	<p>CAXORPC160WU4</p>	<p>GMRWANAPC30W0</p>	<p>Technology – Replication Only Supported OS – Except Windows Enterprise Edition, works on all supported Windows OS Editions as per the support matrix License Count – 1 per Active Cluster Resource Group Assured Recovery – Yes, included</p>
<p>CA ARCserve Replication r16 for Windows Standard OS with Assured Recovery</p>	<p>CAXORPS160W00</p>	<p>CAXORPS160WU4</p>	<p>GMRWANAPS30W0</p>	<p>Technology – Replication Only Supported OS – Except Windows Enterprise Edition and Cluster Editions, works on all supported Windows OS Editions as per the support matrix License Count – 1 per Physical Machine Assured Recovery – Yes, included</p>



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<p>CA ARCserve Replication r16 for Windows Virtual Machine with Assured Recovery</p>	<p>CAXORPV160W00</p>	<p>CAXORPV160WU4</p>	<p>GMRWANAPV30W0</p>	<p>Technology – Replication Only Supported OS – Doesn't work on Physical Machines. Works on any Windows OS Editions running on virtual machines as per the support matrix. License Count – 1 Windows VM license Assured Recovery – Yes, included</p>
<p>CA ARCserve Replication r16 for Windows Virtual Machine with Assured Recovery - 5 Pack</p>	<p>CAXORPV160W05</p>		<p>GMRRNAPV530W0</p>	<p>Technology – Replication Only Supported OS – Doesn't work on Physical Machines. Works on any Windows OS Editions running on virtual machines as per the support matrix. License Count – Pack of 5 "CA ARCserve Replication r16 for Windows Virtual Machine with Assured Recovery" licenses. No restriction to use these 5 licenses on single hypervisor only, can be used to protect VMs running on different hypervisors. Windows VM license Assured Recovery – Yes, included</p>
<p>CA ARCserve Replication r16 for Unix Server OS</p>	<p>CAXORPU160W00</p>	<p>CAXORPU160WU4</p>	<p>GMRXORUSO30W0</p>	<p>Technology – Replication Only Supported OS – Any supported Unix Edition as per Support matrix License Count –1 per Unix Machine. Assured Recovery – No, Assured Recovery not supported on UNIX machines</p>
<p>CA ARCserve Replication r16 for Linux Server OS</p>	<p>CAXORPL160W00</p>	<p>CAXORPL160WU4</p>	<p>GMRXORLSO30W0</p>	<p>Technology – Replication Only Supported OS – Any supported Linux Edition as per Support matrix License Count –1 per Linux Machine. Assured Recovery – No, Assured Recovery not supported on Linux machines</p>



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<p>CA ARCserve Replication r16 for Linux Virtual Machine</p>	<p>CAXORPX160W00</p>	<p>CAXORPX160WU4</p>	<p>GMRXORPXV30W0</p>	<p>Technology – Replication Only Supported OS – Doesn't work on Physical Machines. Works on any supported Linux Flavor running on Virtual machine as per support matrix License Count – 1 per Linux Virtual Machine Assured Recovery – No Assured Recovery NOT supported for Linux Machines</p>
<p>CA ARCserve Replication r16 for Linux Virtual Machine - 5 Pack</p>	<p>CAXORPX160W05</p>		<p>GMRORPXV510W0</p>	<p>Technology – Replication Only Supported OS – Doesn't work on Physical Machines. Works on any supported Linux Edition running on Virtual machine as per support matrix License Count – Pack of 5 "CA ARCserve Replication r16 for Linux Virtual Machine" licenses. No restriction to use these 5 licenses on single hypervisor only, can be used to protect VMs running on different hypervisors. Assured Recovery – No, Assured Recovery NOT supported for Linux Machines</p>
<p>CA ARCserve High Availability r16 for Windows VM Protection per Host License</p>	<p>CAXOHAH160W00</p>	<p>CAXOHAH160WU4</p>	<p>GMRXOHAHV10W0</p>	<p>Technology – Replication and High Availability Supported OS – Any supported Windows OS* License Count – Unlimited VMs per Hypervisor host (ESX/Hyper-V) Assured Recovery – Yes, included Note – Linux VM licenses not included, please purchase separately if needed</p>
<p>CA ARCserve High Availability r16 for Windows VM Protection per Socket License</p>	<p>CAXOHSVH160W00</p>	<p>CAXOHSVH160WU4</p>	<p>GMRXOHSVH10W0</p>	<p>Technology – Replication and High Availability Supported OS – Any supported Windows OS* License Count – 20 ARCserve High Availability Windows VM licenses. Assured Recovery – Yes, included</p>





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<p>CA ARCserve Replication r16 for Windows VM Protection per Host License</p>	CAXORPH160W00	CAXORPH160WU4	GMRXORPHV10W0	<p>Technology – Replication Only Supported OS – Any supported Windows OS* License Count – Unlimited VMs per Hypervisor host (ESX/Hyper-V) Assured Recovery – Yes, included</p> <p>Note – Linux VM licenses not included, please purchase separately if needed</p>
<p>CA ARCserve Replication r16 for Windows VM Protection per Socket License</p>	CAXORSV160W00	CAXORSV160WU4	GMRXORSVM10W0	<p>Technology – Replication and High Availability Supported OS – Any supported Windows OS* License Count – 20 ARCserve High Availability Windows VM licenses. Assured Recovery – Yes, included</p>
<p>CA ARCserve High Availability r16 for Windows Enterprise OS with Assured Recovery - Upgrade from Replication</p>	CAXOHAE160WUR	NA	GMRWHAAPE30W0	<p>Upgrade from: Prior versions of "CA ARCserve Replication r16 for Windows Enterprise OS with Assured Recovery" or equivalent Competitive product Upgrade to: "CA ARCserve High Availability r16 for Windows Enterprise OS with Assured Recovery"</p>
<p>CA ARCserve High Availability r16 for Windows Cluster Resource Group with Assured Recovery - Upgrade from Replication</p>	CAXOHAC160WUR		GMRWHAAPC30W0	<p>Upgrade from: Prior versions of "CA ARCserve Replication r16 for Windows Cluster Resource Group with Assured Recovery" or equivalent Competitive product Upgrade to: "CA ARCserve High Availability r16 for Windows Cluster Resource Group with Assured Recovery"</p>
<p>CA ARCserve High Availability r16 for Windows Standard OS with Assured Recovery - Upgrade from Replication</p>	CAXOHAS160WUR		GMRWHAAPS30W0	<p>Upgrade from: Prior versions of "CA ARCserve Replication r16 for Windows Standard OS with Assured Recovery" or equivalent Competitive product Upgrade to: "CA ARCserve High Availability r16 for Windows Standard OS with Assured Recovery"</p>



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<p>CA ARCserve High Availability r16 for Windows Virtual Machine with Assured Recovery - Upgrade from Replication</p>	CAXOHAV160WUR	GMRWHAAPV30W0	<p>Upgrade from: Prior versions of "CA ARCserve Replication r16 for Windows Virtual Machine with Assured Recovery" or equivalent Competitive product Upgrade to: "CA ARCserve High Availability r16 for Windows Virtual Machine with Assured Recovery"</p>
<p>CA ARCserve High Availability r16 for UNIX Server OS - Upgrade from Replication</p>	CAXOHAU160WUR	GMRXOHAUS30W0	<p>Upgrade from: Prior versions of "CA ARCserve Replication r16 for Unix Server OS" or equivalent Competitive product Upgrade to: "CA ARCserve High Availability r16 for Unix Server OS"</p>
<p>CA ARCserve High Availability r16 for Linux Server OS - Upgrade from Replication</p>	CAXOHAL160WUR	GMRXOHALS30W0	<p>Upgrade from: Prior versions of "CA ARCserve Replication r16 for Linux Server OS" or equivalent Competitive product Upgrade to: "CA ARCserve High Availability r16 for Linux Server OS"</p>
<p>CA ARCserve High Availability r16 for Linux Virtual Machine - Upgrade from Replication</p>	CAXOHAX160WUR	GMRXOHAXV30W0	<p>Upgrade from: Prior versions of "CA ARCserve Replication r16 for Linux Virtual Machine" or equivalent Competitive product Upgrade to: "CA ARCserve High Availability r16 for Linux Virtual Machine"</p>
<p>CA ARCserve High Availability r16 for Windows Enterprise OS with Assured Recovery - Upgrade From Windows Standard OS</p>	CAXOHAE160WUE	GMRWHAAPE30W0	<p>Upgrade from: Prior versions of "CA ARCserve Replication r16 for Unix Virtual Machine" or equivalent Competitive product Upgrade to: "CA ARCserve High Availability r16 for Unix Virtual Machine"</p>
<p>CA ARCserve Replication r16 for Windows Enterprise OS with Assured Recovery - Upgrade From Windows Standard OS</p>	CAXORPE160WUE	GMRWANAPE30W0	<p>Upgrade from: Prior versions of "CA ARCserve Replication r16 for Windows Standard OS with Assured Recovery" or equivalent Competitive product Upgrade to: "CA ARCserve Replication r16 for Windows Enterprise OS with Assured Recovery"</p>

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CA ARCserve Managed Service Provider Licensing

Monthly Subscription Licensing is available exclusively to Authorized Managed Service Providers. It provides a flexible and economical way for MSPs to license core ARCserve technology to provide services to their customers. MSPs can license on a per “protected” server or per “protected” capacity model.

Per-Server

There are 6 licensable per Server-based product offerings:

1. 2 for CA ARCserve Backup
 - File Server
 - App, DB, Email Module
2. 2 for CA ARCserve D2D
 - Standard
 - Advanced
3. 1 for CA ARCserve Replication
4. 1 for CA ARCserve High Availability

Managed Capacity

New in r16 is the ability to license select Managed Capacity Programs to MSPs on a Monthly subscription basis. We have opened up 4 Capacity/Price Bands – 2-10 TB, 11-25TB, 26-50 TB, and 51+ TB to MSPs for the following product offerings.

1. CA ARCserve Backup Only Managed Capacity
2. CA ARCserve D2D Only Managed Capacity
3. CA ARCserve Replication Only Managed Capacity
4. CA ARCserve High Availability Only Managed Capacity
5. CA ARCserve All Inclusive Managed Capacity

Note: for MSP Server and Capacity calculation purposes, only the protected End User systems, or amount of protected End User data is used to determine the MSP’s Monthly Charges. Backend infrastructure systems, data are excluded from calculations.

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CA ARCserve D2D Workstation Edition

Finally, the new CA ARCserve D2D Workstation packs with 5, 10, 25, 50, 100, 250, 500 Pack License options, have also been extended into the monthly MSP Subscription program.