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### Office hours

mon - thurs 8:30am - 5:30pm  
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# Desktop and Laptop Data Protection

With more and more data residing on desktop and laptop computers, protecting the information stored on your mobile machines is vital. You need a scalable, non-disruptive way to protect this data that is also easy for you to manage. CA ARCserve® D2D, part of the CA ARCserve Family of Products, gives you a better solution for desktop and laptop system and data protection. You get the control, scalability and flexibility that you need to address your evolving and growing desktop and mobile computing environment.

## CHALLENGES

Protecting your desktop and laptop computers is challenging at best—so much so that many organizations don't even do it. With over a million laptops lost or stolen each year, protecting the information stored on these machines is vital. Data stored on desktops is at risk from accidental deletion, a crashed disk drive, virus and malware attacks, system corruption, damage and major physical disasters such as fires, floods, storms and other events. Expecting users to back up their own machines is unreliable at best and leaves your business exposed to the risk of lost data, lost intellectual property and lost user productivity.

## PRODUCT INFORMATION

CA ARCserve D2D enables you to automate the backup process and perform timely, secure, disk-to-disk backups without relying on IT personnel to make sure that the data is protected. Central policy management helps to ensure that all laptop and desktop data is protected consistently across your company. Auto-discovery and reporting tell you which systems are being backed up and can be recovered in the event of an outage. Granular recovery ensures quick recovery of files, folders, volumes or complete systems with bare-metal restore to the same or dissimilar hardware. Backups are supported to the network disk as well as to a local USB drive, so your road warriors can recover their data in an instant. It is even possible to copy files to the cloud for an additional level of protection or long-term archiving.

## BENEFITS

With CA ARCserve D2D, you can protect a single desktop or laptop, or all of the desktops and laptops across your entire environment, with the same level of data protection as your data center servers. Built-in automation and remote deployment, management, alerting and reporting improve IT productivity, enabling you to focus on other critical activities. Overall, data protection and disaster recovery are simplified, and risks associated with remote desktop and laptop backup are minimized because you are protected—even your road warriors can recover their data, or entire system, quickly and easily.

**Simplicity is key and this “set it and forget it” solution simplifies protecting your desktop and laptop systems.**

Today, many businesses, government agencies and even higher education institutions face the daunting task of protecting the information that is generated and stored on desktop and laptop computers. This data needs to be backed up without impacting the performance for the users. Lots of data needs to be backed up across all company workstations and IT is challenged to ensure that all those workstations are protected. Good tools for centralized management are key to aiding IT in ensuring consistent backup policies and quick recovery of data when it is needed. The solution needs to work across the entire environment and handle both connected and disconnected laptops because it is too costly to manage different solutions and vendors.

Ideally, the solution will enable end users to recover their own information with simple search capabilities. In addition, it should be able to perform more complex system recoveries such as a bare-metal restore in the event of a laptop being compromised by malware or a virus, lost, stolen or severely damaged. There are many more workstations than servers in a typical company, so there needs to be a way to reduce the consumption of backup storage as well as store backups on a variety of devices such as USB, FireWire, network attached storage (NAS) and storage area network (SAN) storage.

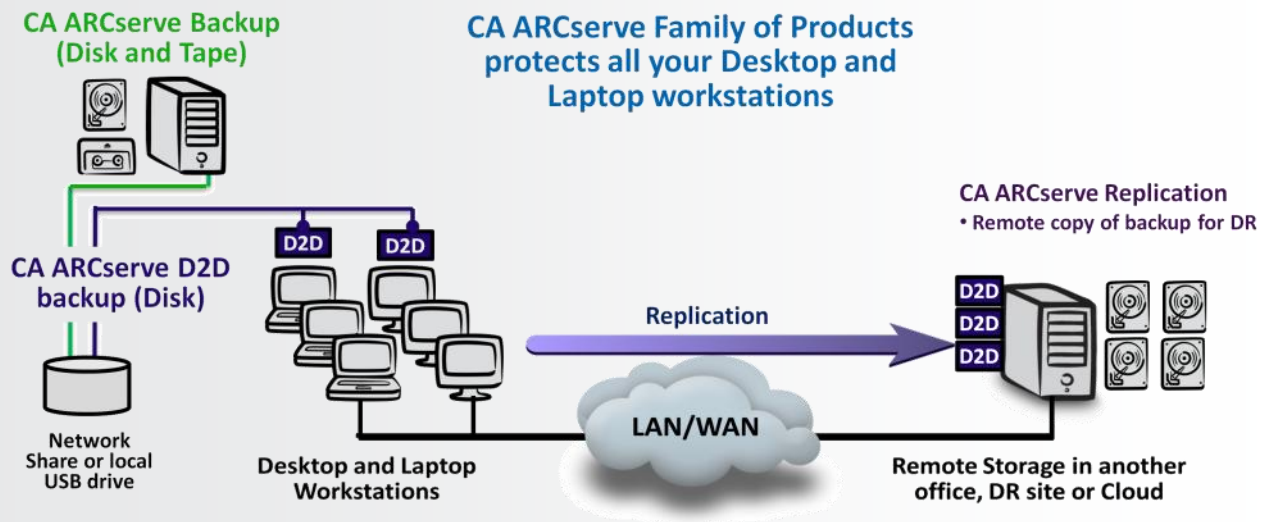
## The Solution: CA ARCserve D2D

CA ARCserve D2D gives you control over your evolving business by delivering total protection, recovery and availability for your desktop and laptop workstations across your environment, including those in remote and home offices. CA ARCserve D2D provides fast, frequent, non-disruptive snapshot backups of your desktop and laptop workstations to a variety of storage devices depending on each user’s individual needs. Desktops can be easily backed up to local network shares whereas disconnected laptops will often be backed up to more portable devices such as USB drives. Using block-level, infinite, incremental snapshot technology from CA Technologies, CA ARCserve D2D uses less backup storage, uses fewer CPU resources and reduces backup windows, making it an ideal solution for protecting desktop and laptop workstations. Data can be recovered as individual files, folders or an entire volume. Entire systems can be recovered using bare-metal restore to the same or dissimilar hardware for the quickest recovery of a compromised, crashed, lost or stolen laptop.

Integrated access to cloud storage enables users to copy files to the cloud for an additional level of security or for long-term archiving. Data can be encrypted with Advanced Encryption Standard (AES)-128, AES-192 or AES-256 encryption algorithms, so you can be sure that your data will remain private, regardless of where it is stored. Backups can also be exported as specific recovery points and stored on alternative media for long-term storage, off-site recovery and archiving.

If you back up your desktops and laptops to a network share in a remote office, the CA ARCserve D2D backup data repository can then be replicated to your central data center by using CA ARCserve® Replication. In this way, you can provide a second off-site location for recovery if something happens to prevent recovery from the remote office data store. After the initial synchronization between the remote office and the Replica server at your central data center, disaster recovery site or cloud facility, only block-level changes are transferred over the wide area network (WAN), keeping network requirements to a minimum. Scheduled replication and WAN optimization features enable you to leverage lower network utilization time periods and avoid increasing WAN bandwidth purchases. This solution provides you with fast recovery from a local disk as well as rapid recovery from a remote disk in the event of a disaster.

Desktop and laptop backups can also be integrated with your corporate server backups by using CA ARCserve® Backup to manage the CA ARCserve D2D backups and provide one central location for recovery of all corporate data. CA ARCserve Backup can identify all desktop and laptop workstations being protected by CA ARCserve D2D and pull those backups into the CA ARCserve Backup catalog. This means that you now have one single location in which to look for data when you need to recover. Together, the CA ARCserve Family of Products provides a complete strategy for local protection and recovery that can be stored in multiple locations and is all managed through one simple user interface.



## Overview of the CA ARCserve Family of Products

**CA ARCserve Backup** goes beyond backup, giving businesses highly reliable data protection with centralized management that makes sense, no matter how complex your data or IT infrastructure is. CA ARCserve Backup offers all this at a fraction of the cost of the competition. Reduce your backup storage by up to 95 percent and regain precious time with the only product that combines data deduplication; integrated backup copy to cloud storage; granular restore of applications such as Active Directory®, Microsoft® Exchange and Microsoft SharePoint®; Infrastructure Visualization; and archiving—for both physical and virtual servers in a single package.<sup>1</sup> Synthetic full backups reduce backup windows and integration with CA ARCserve D2D provides a single catalog to recover data, regardless of how it was backed up.

**CA ARCserve D2D** provides fast and easy backup to disk and is the only Windows®-based backup solution that offers infinite, incremental (I<sup>2</sup>) backups and bare-metal restore—including to dissimilar hardware. This new backup methodology changes how backups are performed to significantly reduce backup and restore times and eliminate the inherent risks of tape devices and media. It also enables faster and more granular recovery points—up to every 15 minutes—speeding data recovery, either from local data on disk or remote data stored in the cloud. Centralized deployment, management and reporting reduce implementation and management effort across your environment, including remote offices, and provide status information to you for increased peace of mind. The new **CA ARCserve® Central Host-Based VM Backup** application for VMware virtual servers simplifies protection of all virtual servers on a physical host while the new **CA ARCserve® Central Virtual Standby** application provides near-instantaneous recovery of any server as a VM. CA ARCserve D2D also protects desktop and laptop workstations running Windows® XP Service Pack 3 (SP3), Windows Vista® and Windows® 7 with the same great capabilities that it offers to protect your servers.

**CA ARCserve® Central Applications** deliver greater integration and easily add new functionality across the CA ARCserve Family of Products for improved recovery time, reduced IT management workload and enhanced backup of your virtualized servers. **CA ARCserve® Central Protection Manager** provides a centralized view and management of all servers and workstations that CA ARCserve D2D protects, reducing IT workload through simplified, policy-based administration. **CA ARCserve® Central Reporting** provides centralized reporting on all devices, settings and policies running on-premise and off-premise that are protected by CA ARCserve Backup and

CA ARCserve D2D, so you can easily understand what is happening across your environment. **CA ARCserve Central Host-Based VM Backup** uses CA ARCserve D2D to protect a single VMware host environment, performing backup of all VMs via a single-pass backup without having to install CA ARCserve D2D inside each VM. It enables granular recovery of files and folders from each individual VM and the restore of supported applications running within a VM, simplifying protection and recovery of your virtual servers. Finally, **CA ARCserve Central Virtual Standby** makes CA ARCserve D2D backups available to run like regular VMware Virtual Machine Disk (VMDK) or Microsoft Virtual Hard Disk (VHD) virtual servers. It automatically pre-registers each recovery point with the hypervisor for immediate recovery as a VM if a system outage occurs. The recovery transfer time is eliminated and VMs can be powered on manually or automatically when needed to provide near-instantaneous recovery.

**CA ARCserve Replication**, formerly known as CA XOssoft™ Replication, provides continuous data protection for Windows, Linux® and UNIX® systems on physical and virtual systems. You get an easy way to migrate and copy data between servers and locations, as well as between remote offices, and a central site for backup and archiving. It delivers local area network (LAN) and WAN continuous and periodic replication, whether on-premise, off-premise or in the cloud. You get Data Rewind for continuous data protection (CDP) to complement any periodic backup solution, helping to speed recovery and minimize data loss. Only CA ARCserve Replication offers offline synchronization, multi-stream replication, bandwidth throttling and multiple replication options to help balance network resources with your desired level of protection.

**CA ARCserve® High Availability**, formerly known as CA XOssoft™ High Availability, includes all the features of CA ARCserve Replication and adds continuous system, application and data availability for your critical systems. It provides server and application monitoring, automatic and push-button failover and push-button failback to reduce risk to your sales, service, operations, employee productivity and reputation. Unlike other high-availability solutions, CA ARCserve High Availability does not require any cluster architecture or additional “witness servers,” responds to issues at the server and application levels and includes Data Rewind for CDP and automated, non-disruptive recovery testing to make sure that IT resources are available when they are needed. Only CA ARCserve High Availability offers offline synchronization to speed deployment with large Windows data sets and databases, and a unified, web-based management service.

[1] AS OF AUGUST 2011.



The CA ARCserve Family of Products, along with affordable, flexible and simple licensing options, makes CA Technologies the value leader in the market, delivering enterprise-class system, application and data protection, recovery and availability for a wide range of operating environments and applications. Certified across an extensive range of industry platforms and applications, the CA ARCserve Family of Products provides compatibility and support for small and large heterogeneous environments. You get the flexibility, agility and scalability you need to protect a handful of servers, desktops and laptops, or thousands that are geographically dispersed. The CA ARCserve Family of Products delivers a “future-proof” solution that grows with your company or organization.

## Benefits

Leveraging the CA ARCserve Family of Products helps to ensure the protection and availability of your office data on which your business or organization depends. Benefits include:

- Easier and faster backup and restore for desktops and laptops with reduced storage requirements.
- Protection for your desktop and laptop systems with infinite, incremental backups and bare-metal restore.
- Easy rollback of your system to recover from a bad software update or a computer compromised by a virus.
- A single solution for your desktops, laptops and servers running Windows to help reduce complexity and simplify training.
- Centralized and automated management so that your IT staff can focus more on growing the business.
- Restore that end users can perform, which speeds recovery and reduces the workload on IT.
- Private and public cloud storage for recovery anywhere and to archive files.