Arcserve® Unified Data Protection: Enterprise power, small team simple

Arcserve delivers the only data protection solution suite to deliver enterprise-grade capabilities without the complexity often associated with enterprise solutions. With Arcserve Unified Data Protection (UDP), small and over-stretched IT teams safeguard cloud, virtual and physical data by protecting to and from any target, while configuring and managing all aspects of data protection through a single, elegantly simple user console. As business needs change or requirements evolve, IT teams easily turn on high-performance capabilities without burdensome forklift upgrades or layering on additional point solutions.

Arcserve UDP is based on a next generation unified architecture for both virtual and physical environments. Its unmatched breadth, ease of use, and Assured Recovery™ capabilities set it apart from other data protection solutions. This unified solution offers innovative features such as:

Unified management console for all data protection needs

True global deduplication

Support for physical systems (Windows & Linux)

Built-in replication & high availability

Very flexible yet powerful data protection and availability plans

Agent-less backup for VMware & Hyper-V (Windows & Linux VMs)

Migration of disk images to tape, with granular restore from disk or tape

On-premise, off-premise or in the cloud.
Options include software, appliances, and private and public clouds, as well as the Arcserve Cloud Service

Arcserve UDP combines backup, replication, high availability and true global deduplication technologies within one solution. Arcserve UDP is easy to use and does not require expensive professional services to offer a seamless solution from endpoint to remote archive site.

Arcserve UDP helps organizations deliver on Recovery Time and Recovery Point Objectives (RPOs and RTOs) while helping to optimize their resources. It delivers a high level of flexibility to design a data protection strategy that fits unique needs, unifying data protection technologies in one solution. Its unified management console can manage and deploy across multiple sites, deliver agent-less backups of VMware\Hyper-V VMs, supports Windows and Linux physical machines as well as tape migration of disk images. Traditional, overly complex backup policies are replaced by modern task-based data protection plans and deep integration with hypervisors to fully automate complex, repetitive tasks.

Arcserve UDP was designed with cloud-native disaster recovery capabilities and deployment modalities, including private and public clouds, and as an appliance.

Focus on Assured Recovery:

In combination with a broad set of features for deploying advanced data protection, recovery and availability strategies, Arcserve UDP enables the automated disaster recovery testing of business-critical systems, applications and data, without business downtime and impact to production systems.

Key Benefits – Arcserve UDP Operational Benefits

Improved data and system protection, recovery and availability

- Unified architecture that brings together core data protection technologies under one console
- Feature-rich solution supporting a wide variety of environments
- Customized protection plans to help meet specific data protection needs
- Advanced reporting

Improved capabilities to meet key data protection, recovery and availability SLAs

- Evolving from RPO/RTO to Recovery Point and Time Assurance
- Fast, flexible recovery options with Virtual Standby and Bare Metal Restore
- Ability to test, measure and report recovery processes
- SLA compliance

Improved operational efficiency

- Administrators' efficiency is enhanced with our unified management console
- Ease of use and broad capabilities combine to enhance time to value
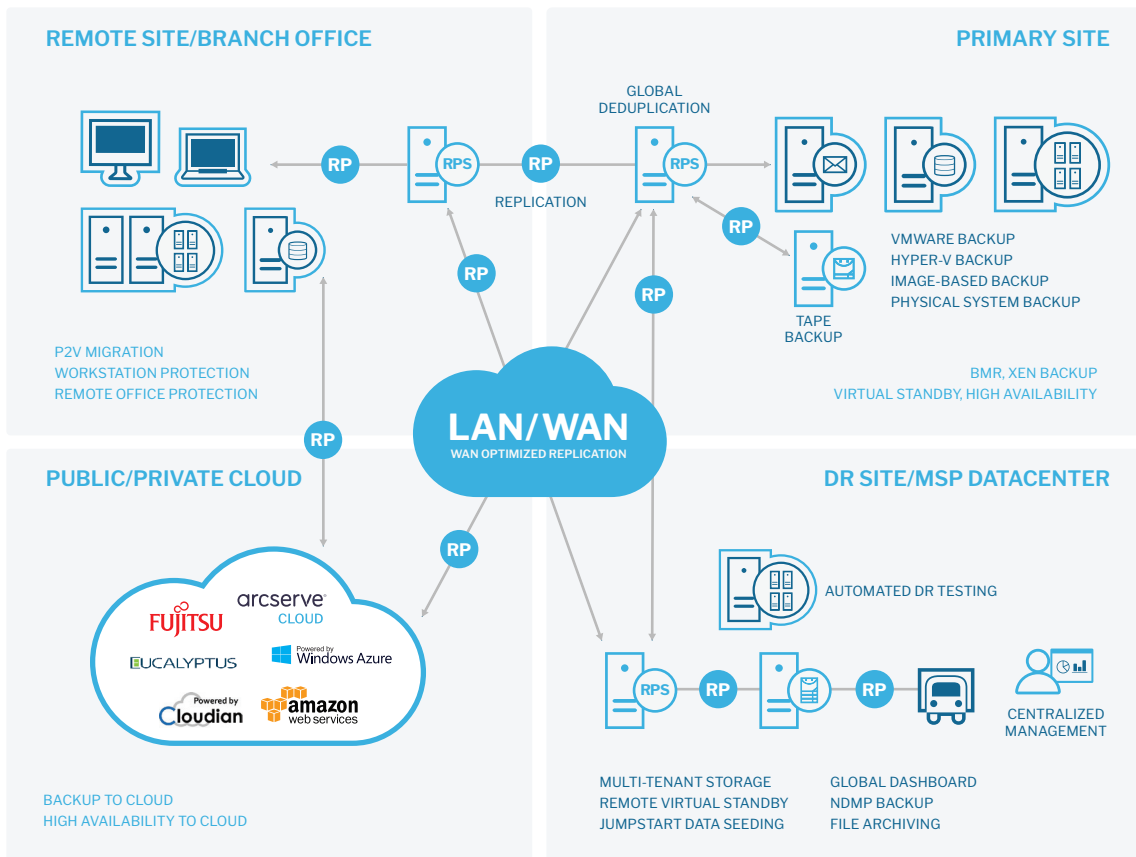- Storage and network resources consumption mitigation

Advanced cloud support as a source and a destination

- Support for Office 365 environments
- Advanced capabilities in public cloud environments
- Also available for private cloud deployments or as a managed service through our partner network

Architectural Overview

Arcserve UDP allows users to easily scale their hybrid business continuity topologies, locally or over long distances with multiple sites, including service and cloud providers. At the heart of the architecture is the Recovery Point Server (RPS). Among the key features of RPS are a true global source-side deduplication engine, proven built-in replication, data "jumpStart" / data Seeding, multi-tenant storage, compression and AES encryption.

Arcserve UDP New Features

Simply More: More innovation, more cloud, more control

The newest generation of Arcserve UDP further improves our channel partners and customers' ability to deliver higher operational efficiencies as they improve their RPOs and RTOs with a combination of innovative new features and enhancements. Users leverage expanded data protection capabilities for on-premise and cloud environments, including further integration into public cloud infrastructures for disaster recovery (DR). Reporting and orchestration is effortless with new and enhanced capabilities that enable more control over data protection processes. Arcserve offers several deployment modalities: software, appliances (Arcserve 8000 Appliance Series), and the Arcserve Cloud.

MORE INNOVATION & CONTROL	
Feature	**Benefit**
Exchange Online / SharePoint Online / Office 365 Protection to local backup of the Office 365 data, or to any cloud that supports the Arcserve UDP Recovery Point Server (RPS)	Eliminate the risk of data loss due to an outage or accidental deletion while maintaining a local backup of the Office 365 email or SharePoint environment, or leveraging an Arcserve UDP compatible cloud destination.
Backup from UNC Paths (CIFS protection) within the UDP Console. Plans support replication, Assured Recovery testing or copy to tape.	Enhanced support for NAS environments, and protection of shares exported by Windows and Linux.
Automatic protection of newly added VMware VMs (VMWare - Hyper-V)	Easier protection of VMware environments.
Hardware snapshot support for Nimble Storage and Hewlett Packard Enterprise (HPE) 3Par	Leverage hardware snapshots for faster and integrated protection of data on 3PAR and Nimble arrays.
Instant VM and virtual standby enhancements	Increased ease of use and operational efficiency enhancements.
Replication between two data stores on the same RPS server	Improved flexibility for protection of de-duplicated and non-de-duplicated data stores.

MORE INNOVATION & CONTROL

Feature	Benefit
Agentless backup enhancements	Performance and usability improvements for enhanced recovery capabilities in virtual environments.
Mount Recovery Point as NFS share (Linux)	Users gain more flexibility for recovery in Linux environments.
Assured Recovery testing for Windows and Linux • Enables users to view the health status of recovery points through automatic, non-disruptive testing	Enhancements advance the capability to test disaster recovery automatically and non-disruptively for improved RPOs and RTOs.
SLA reporting for RTOs and RPOs • Compare RTOs and RTAs (Actual), and display the total number of nodes with available recovery points with drill down options • Measures and demonstrates disaster recovery with actual recovery times and recovery points with a detailed service level report	Users demonstrate internal and external compliance to agreed-upon RPO and RTO service levels.
Data store and improved recovery point data integrity enhancements	Improved reliability and performance of the Arcserve UDP data protection infrastructure.
New platform support	Complete protection for new platforms, including: • Windows 2016, Hyper-V 2016 host-based agentless backup, SQL 2012 SP3, SQL 2014 SP2 and SQL 2016 support • Windows 10 IoT Enterprise 2016 LTSB (64bit) • Linux Oracle UEK support (6.5+, UEK version R3 and R4, 64 bit only) • Debian (8.9, 9.0, 9.1, 9.2) • Ubuntu (14.04 LTS, 14.04.5 LTS, 16.04 LTS • RHEL/CentOS/Oracle Linux 6.8 and 7.3

Assured recovery™

Feature Highlight

Microsoft Office 365 Exchange Protection

The next generation of Arcserve UDP introduces a new feature to help organizations protect Office 365 emails or SharePoint documents hosted on the Microsoft public or private cloud.

Capabilities include:

- Agentless O365 email protection with granular restore

- Protect SharePoint document libraries and customer lists

- In-house data ownership to mitigate cloud risks

- Source data for Arcserve UDP Advanced Edition per TB

- Optional with sockets or server-based licenses

- Storage optimized with Arcserve UDP deduplication

With this feature, users can secure and maintain a local backup of their Office 365 email data to eliminate the risk of data loss due to an outage or accidental deletion. Backup administrators can protect individual items, such as: emails, calendar, contacts, tasks, and notes. They can search the protected items and restore using a wide range of flexible recovery options.

Additionally, the smart filter feature gives administrators the option to selectively back up only important folders and exclude others, such as: sync issues and clutter. This reduces the backup window and saves crucial network bandwidth and storage.

Also, users can now protect their shared documents libraries on Office 365 SharePoint service.

MORE CLOUD	
Feature	**Benefit**
Virtual standby for Windows to Amazon AWS EC2 and Azure • Supports the conversion of recovery points to virtual machine formats	Delivers more Disaster Recovery flexibility by using the public cloud, as well as easily shift on-premise backup environments to AWS EC2 and Azure.
Copy recovery point to cloud (AWS S3 and Azure)	Store full recovery points to the Amazon cloud at an optimized cost (S3 vs. EC2 or Microsoft Azure) while enjoying enhanced disaster recovery capabilities.
Use AWS or Azure Cloud as a remote disaster recovery site (Linux Agent) • Replicate recovery points to a recovery point server in the AWS or Azure Cloud • Mount recovery points in the cloud to a local site for file recovery across the internet • Launch instance directly from the recovery point	Users with Linux systems enjoy enhanced disaster recovery capabilities in AWS and Azure environments and improved RPOs and RTOs.
Protect EC2 instance into AWS Cloud (Linux Agent) • Back up EC2 instance to local NFS/CIFS/RPS/ Amazon S3 • File-level recovery • Restore EC2 instance (Instant VM for Linux to Amazon AWS EC2 with an auto recovery option)	Enhanced disaster recovery capabilities in AWS for improved RPOs and RTOs.

Feature Highlight

DRaaS in Amazon Environments

Arcserve UDP virtual standby now supports the conversion of recovery points to virtual machine formats on AWS EC2 or Azure by leveraging snapshots to easily restore your data. This delivers more disaster recovery flexibility by using the public cloud, as well as easily shifts on-premise backup environments to AWS EC2 or Azure.

Use AWS or Azure Cloud as a Remote DR Site

- Replicate recovery points to a recovery point server in the AWS Cloud

- Mount recovery points in the cloud to local site (for file-level recovery across the internet)

- Instantly launch an EC2 instance from a recovery with the following options:

  - Decide between short-term use (where you do not recover data in the background) or long-term use (where you recover data in the background), and make the EC2 or Azure instance independent

  - For short-term use, users can migrate the EC2 or Azure instance back to the local site, and only the additional data (after the EC2 or Azure instance is launched) is transferred across the internet.

Protect EC2 Instance Inside the AWS Cloud

- Back up an EC2 instance to local/NFS/CIFS/RPS

- File-level recovery

- Restore an EC2 instance (through IVM with auto recovery option)

Copy Recovery Point to Cloud (S3)

- Store full recovery points to the Amazon or Azure Cloud

- Advanced scheduling and granular copy management

- Full machine disaster recovery

- True business continuity

Windows and Linux Platform Enhancements

Arcserve UDP delivers the following Windows enhancements:

- Support for Windows 10, the latest Windows workstation release

- Support for Exchange 2016, the market-leading messaging solution

- New Exchange granular recovery to support recovery for non-email items (e.g. calendar, task, journal and public folders items) without having to restore the entire mailbox store

- Reboot-less Agent deployment to allow for fast deployment of Agents from the UDP console, without having to reboot production machines

- RPS File Copy enhancements to allow users to copy Windows files/folders from RPS to a public/private cloud. It can be used as an archiving solution and as a means to reduce storage on source node

For Linux operating system support, UDP version 6.5 adds support for RHEL & CENTOS v7 and Oracle Linux 6.8, 7.3 (RHEL compatible), Debian and Ubuntu. *Refer to Arcserve Software Compatibility Guide for complete list.*

Additionally it delivers new features to provide equivalent capability with Windows, including:

- File/folder level recovery of Linux VMs backed up via agent-less, host-based backups on vSphere and Hyper-V hosts

- Source-side deduplication to RPS, replication to additional RPS and also support for non-dedupe data stores

- Merging of recovery points (infinite incremental backups)

- RPS to RPS replication

- Bare Metal Restore (BMR) of Unified Extensible Firmware Interface (UEFI) systems

- Archive to tape from RPS (no GRT from tape limitation)

- "Sudo" authentication for backup source to improve security

Management Enhancements and Third Party Integration

Arcserve UDP offers significant enhancements for MSPs and Administrators to improve deployment, management and third-party integration.

- Role-based administration to enable organizations to control reconfiguration and access to backup plans, nodes, data stores, restores, licensing, reporting, etc.

- Enhanced log messages with unique IDs for easier 3rd party integration

- Enhanced Agent and Console v2.0 APIs and DB Schema documentation allow third parties to more tightly integrate with Arcserve UDP

- WAN management improvements and reboot-less Agent deployment for easier deployment of nodes across a WAN without Network Address Translation (NAT) challenges

- New Command Line Interface (CLI) to allow for scripted management of UDP on Windows Core Server, which simplifies test automation and third-party integration

arcserve®

New **Arcserve UDP** is a next-generation unified architecture data protection solution. It means now you can simply forget about physical backup and virtual backup and high availability and Exchange backup and Windows backup and Linux backup and cloud-based backup and NAS/NDMP backup and disk-based backup and Unix backup and tape backup (breathe) and Citrix Xen backup and Sharepoint backup and SQL backup and Oracle backup and workstation & laptop backup and bare metal recovery and deduplication and file archiving point solutions and just think about how great life can be when data protection **simply works.**

For more information on Arcserve, **please visit** arcserve.com