


Hewlett Packard
Enterprise

HPE STORAGE-INTEGRATED DATA PROTECTION AND DATA MOBILITY

HPE Recovery Manager Central (RMC)



DECODE YOUR DATA PROTECTION CHALLENGES

Combine the benefits of backups and snapshots in an application-managed, storage-integrated data protection solution. HPE Recovery Manager Central (RMC) delivers snapshot-based backup solutions for fast, simple, and affordable data protection from edge to cloud. **Elevate your data protection.**

The pros and cons of backups and snapshots

Traditional backup

Reliable recovery and cost-effective retention ✓

Unable to meet RPOs/RTOs without application disruption ✗

Snapshots

Fast, nondisruptive backup and recovery ✓

Retention limitations ✗

Snapshots lost if storage system fails ✗

Integrating primary and backup storage

Combine the best of snapshots and backups for fast, efficient, and reliable protection ✓

Protecting your business-critical applications without impacting performance is proving ever more challenging in the face of all-flash data centers, unrelenting data growth, stringent recovery service level agreements (SLAs) and increasingly virtualized hybrid cloud environments. Traditional approaches to data protection are unable to cost-effectively deliver the end-to-end protection that your applications and hypervisors demand. A faster, easier, more efficient, and reliable way to protect data is needed.

EVOLVING DATA PROTECTION ARCHITECTURES FOR BUSINESS-CRITICAL APPLICATIONS

Server-centric backup processes can impact application performance with data typically flowing through the application and backup server. Backup server infrastructures introduce escalating cost and complexity with the need to disruptively acquire and manage additional servers, software licenses, and networking equipment as application data grows.

Array-based snapshots and replication provide fast, nondisruptive point-in-time copies of your data. But snapshots alone cannot deliver comprehensive backup as they have retention limitations, and a dependence on the underlying storage system. Simply put, your snapshots will be lost if the storage system fails.

A better approach is to combine the near instant, nonintrusive availability of local and remote snapshots and replication with the reliable recovery and cost-effective retention of backups. This innovative modernized architecture is delivered with application-aware, flash-integrated data protection.

WELCOME TO FLASH-INTEGRATED DATA PROTECTION

HPE Recovery Manager Central (RMC) software integrates HPE 3PAR, HPE Primera, and HPE Nimble Storage with HPE StoreOnce Systems to provide a flash-integrated snapshot, replication, and backup, service that augments traditional backup approaches.

Combining the performance of snapshots and replication with the protection of backups, Recovery Manager Central enables fast, efficient, reliable, and simple protection for your business-critical applications.

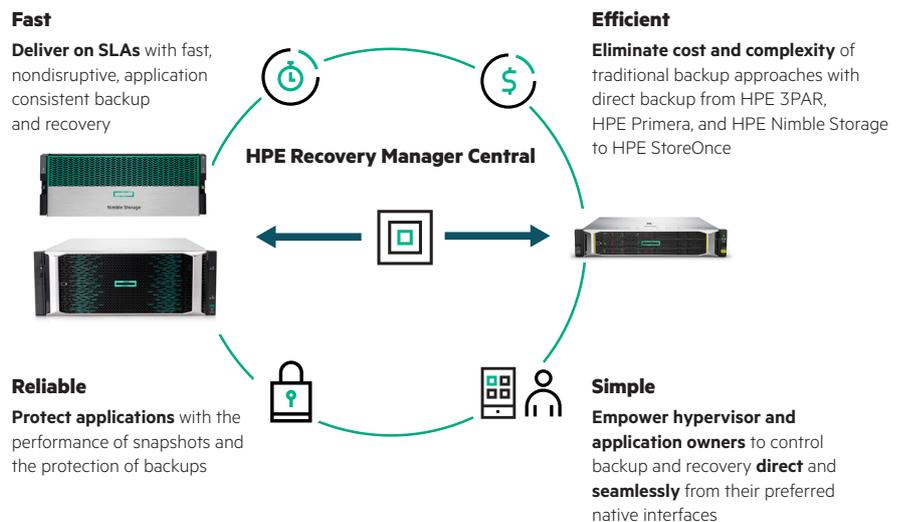


FIGURE 1. HPE Recovery Manager Central—Key business value



ELIMINATE BACKUP WINDOWS AND ENABLE FAST RECOVERY

Do you need to deliver on stringent recovery SLAs with no performance impact on your applications? HPE Recovery Manager Central (RMC) lets you eradicate the backup window and enable rapid recovery with fast, nondisruptive, application consistent local and remote snapshots.

HPE RMC removes the application server and backup server from the datapath, thus eliminating any performance impact on the application. Scalable, nonduplicative snapshots allow administrators a greater number of backups for a frequent extended history of recovery points, offering flexibility when committing to tight recovery point objective (RPO) SLAs.

HPE RMC leverages snapshot differential technology in HPE 3PAR, HPE Primera, and HPE Nimble Storage, ensuring that only changed blocks are sent to the HPE StoreOnce System. This reduces both network traffic and storage usage for lower costs. Every backup completes at the speed of an incremental but is stored as a synthetic full backup, which makes application recovery faster and more efficient.

HPE RMC backup delivers up to 23x faster backups and up to 15x faster restores than traditional backup methods with 9x lower CPU consumption.¹

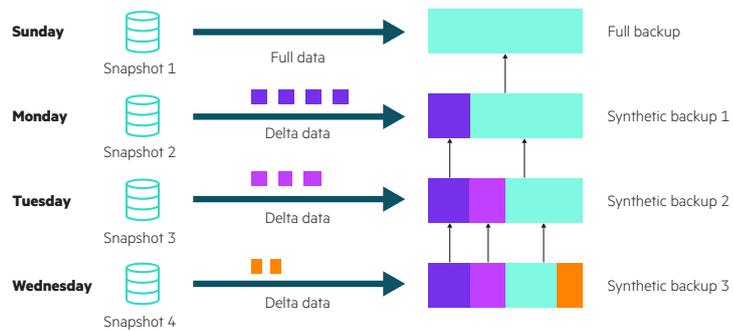


FIGURE 2. Incremental and synthetic full backups



FIGURE 3. HPE StoreOnce System

REDUCE COST AND COMPLEXITY

Are you looking to improve efficiency by reducing the cost and complexity of your backup infrastructure? The HPE RMC Express Protect feature allows you to back up snapshots directly from HPE 3PAR, HPE Primera, and HPE Nimble Storage to HPE StoreOnce.

HPE RMC streamlines and simplifies your backup architecture by eliminating extraneous infrastructure. It requires fewer server, storage, and network resources and reduces the number of systems you need to purchase and maintain for data protection.

HPE RMC takes the time and stress out of data protection, enabling the creation and automation of data protection policies with just a few clicks.

HPE RMC reduces the number of snapshots required for protection. All backups are deduplicated using HPE StoreOnce technology, thus reducing backup storage requirements by up to 20 times. This deduplicated data can be cost-effectively stored on HPE StoreOnce for extended periods.

REDUCE RISK EXPOSURE

Do you want to reduce your risk exposure by ensuring the recovery of your backup data?

HPE RMC offers reliable and cost-effective retention and recovery of deduplicated backups with HPE StoreOnce System.

¹ Based on HPE testing of backup performance comparison between HPE Recovery Manager Central and traditional backup environments



Snapshots backed up on [HPE StoreOnce](#) are self-contained, fully independent volumes that can be restored back to the original or different [HPE 3PAR](#), [HPE Primera](#), or [HPE Nimble Storage](#) in the event of a disaster or physical problems with the production storage environment. Backups can be copied from one HPE StoreOnce System to another or to the cloud for disaster recovery purposes. This level of data protection cannot be achieved with snapshots alone.

APPLICATION-INTEGRATED DATA PROTECTION

HPE RMC reduces cost and complexity by enabling application-integrated protection for VMware®, Microsoft SQL, Microsoft Exchange, Oracle®, SAP HANA®, HPE 3PAR File Persona and any Microsoft VSS-enabled application running as a virtual machine. VM, Oracle, SAP HANA, Exchange and SQL database admins can manage application consistent snapshots, backup, and recovery seamlessly and directly from within their preferred native interfaces.

HPE RMC also enables crash consistent backups and snapshots to be performed on any application running on HPE 3PAR, HPE Primera, or HPE Nimble Storage.

An API is also provided for plug-in scripting purposes. This enables developers to integrate the snapshot management and backup benefits of HPE RMC with their own business applications such as SAP HANA.

Invest effectively with HPE Pointnext Services

Accelerate your technology return on investment (ROI), reduce implementation time and impact on backup environments, and manage data more effectively with the HPE Backup and Recovery Solution service. HPE Installation and Startup services help you properly install, integrate, and deploy HPE StoreOnce Systems into your environment. hpe.com/us/en/services/pointnext.html

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BUILT FOR CLOUD DATA PROTECTION

HPE RMC support for [HPE Cloud Volumes Backup](#) and [HPE Cloud Bank Storage](#) lets you leverage the economics, agility, and flexibility of the cloud for modernized data protection.

With HPE Cloud Volumes Backup, you can move your backup infrastructure to the cloud regardless of storage type or backup applications **without changing existing workflows**. This service allows customers to avoid public cloud lock-ins and eliminate egress charges, with the flexibility to recover on-premises for operational restores or in the cloud to run other workloads.

With HPE Cloud Bank Storage, you can easily move your backup data from HPE StoreOnce to public, private, hybrid cloud or an on-premises object storage enabling long term retention, archive and reliable disaster recovery in the cloud that is simple and efficient.

PUT YOUR BACKUP DATA TO WORK

HPE RMC lets you evolve your backup process from being a reactive insurance policy to a proactive value-added service for your enterprise. It provides a storage-integrated copy data management solution that solves the challenges of copy data proliferation and manual data provisioning with fast, automated, and zero-impact data access for recovery, test/dev, analytics, and reporting.

SIMPLIFY DATA MOBILITY

HPE RMC allows you to bidirectionally replicate data volumes between HPE Nimble Storage, HPE Primera, and HPE 3PAR arrays—eliminating the need to use host specific or hypervisor specific tools or expensive network-based appliances.

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