



HPE Recovery Manager Central (RMC)



Welcome to HPE 3PAR flash-integrated and cloud-ready data protection for Hybrid IT

HPE Recovery Manager Central (RMC) software integrates **HPE 3PAR StoreServ All Flash Arrays** with **HPE StoreOnce Systems** to provide a converged snapshot, replication and backup service that augments traditional backup processes.

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

More performance

Do you need to deliver on stringent recovery service-level agreements (SLAs) with no performance impact on your applications? RMC lets you eradicate the backup window and enable rapid recovery with fast, non-disruptive, application-consistent local and remote snapshots.

More efficiency

Are you looking to improve efficiency by reducing the cost and complexity of your backup infrastructure? RMC Express Protect allows you to back up snapshot data directly from HPE 3PAR StoreServ to StoreOnce.



Less risk

Do you want to reduce your risk exposure by ensuring the recovery of your backup data? **RMC** offers reliable and cost-effective retention and recovery of deduplicated backups with HPE StoreOnce, a fast, scalable, and highly available backup system.

More agility

Would you like to enable hypervisor and application owners to control backup and recovery directly and seamlessly from their preferred native interfaces? RMC allows virtual machine (VM) admins to manage snapshots, backup, and recovery directly and seamlessly from within VMware® vCenter™.

Key features and benefits

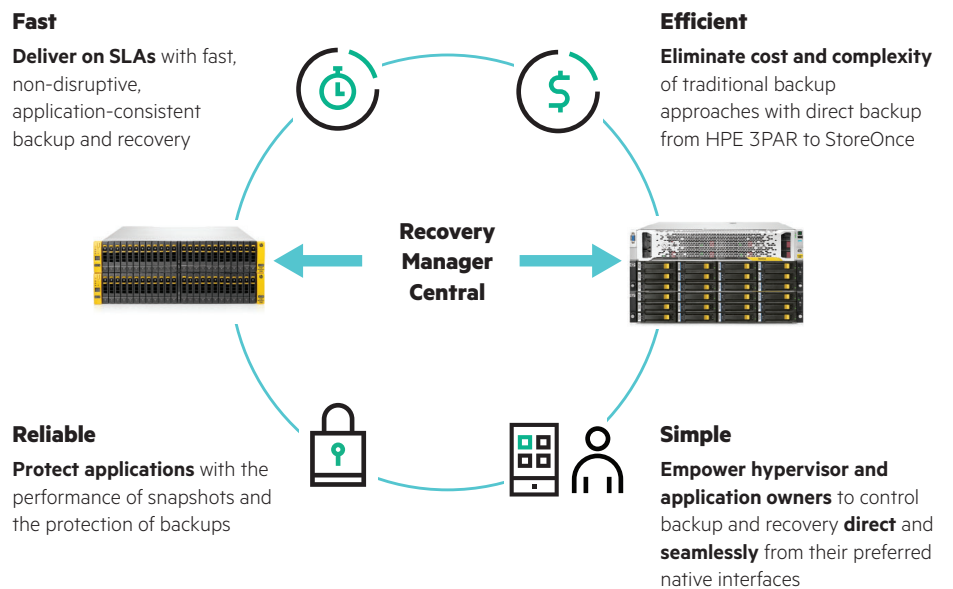
HPE StoreOnce Systems with HPE 3PAR StoreServ better together!

HPE Recovery Manager Central leverages HPE 3PAR StoreServ snapshot technology and HPE StoreOnce Catalyst to provide a converged data protection system which seamlessly integrates the highly robust HPE 3PAR flash-optimized primary storage system with the very fast, scalable, and highly resilient StoreOnce backup system.

RMC's Express Protect feature facilitates the backup of HPE 3PAR StoreServ snapshot data to HPE StoreOnce Backup system. This reduces the expense and complexity associated with traditional backup server-centric infrastructure. Backup with RMC delivers up to 23X faster backup and up to 15X faster restores than traditional backup methods with 9X lower CPU consumption.¹

RMC delivers fast, efficient, and reliable recovery from synthetic full backups. These are generated in-line using the prior set of objects and leverage HPE 3PAR StoreServ SnapDiff technology, which sends only changed blocks to the StoreOnce Backup system.

Snapshots backed up on StoreOnce are self-contained volumes that can be restored back to the original or different HPE 3PAR StoreServ array in the event of a disaster. This level of data protection cannot be achieved with snapshots alone. All backups are deduplicated using StoreOnce technology, thus reducing backup storage requirements by up to 20X. Backups can be copied from one StoreOnce appliance to another for disaster recovery purposes.



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

Figure 1. HPE Recovery Manager Central—Key business value



Application integrated data protection

RMC reduces cost and complexity by enabling application integrated protection for VMware, Microsoft SQL, Microsoft Exchange, Oracle, SAP HANA, 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.

RMC also enables crash consistent backups and snapshots to be performed on any application running on 3PAR.

An API is also provided for plug-in scripting purposes. This enables developers to integrate the snapshot management and backup benefits of 3PAR RMC with their own business applications such as SAP HANA.

Simplified data protection management is further enabled by RMC integration with 3PAR SSMC. This provides 3PAR storage admins with the ability to set up protection policies at the time of volume provisioning, enabling end-to-end cloud-ready data protection managed through one simple console.

Cloud-ready data protection for Hybrid IT

RMC support for HPE Cloud Bank Storage lets you leverage the economics, agility, and flexibility of the cloud for modernized data protection.

You can seamlessly, securely, and cost-effectively move backup data to the public, private, hybrid cloud or on-premises object storage—enabling long-term retention, archive and reliable disaster recovery that is simple and efficient.

The solution sends, stores, and retrieves only unique data for lower TCO and is highly scalable—enabling the protection and retention of more than 100 PB of backup data starting at one tenth of a cent per month.

Table 1. Supported environments

Primary storage	HPE 3PAR StoreServ 7x00 series, 8x00 series, 9x00 series, 10x00 series, 20x00 series, with HPE 3PAR Operating System 3.2.1, 3.2.2 and 3.3.1
Backup system	All physical StoreOnce appliances and StoreOnce VSA with StoreOnce software version 3.13.3 and above, 3.15.1 and above, 3.16.0
Application consistent protection	VMware (5.5, 6.0, 6.5) and any virtualized VSS capable applications (including virtualized SQL databases). Non-virtualized SQL databases (SQL 2008, 2012, 2014, 2016) and Oracle databases (running Red Hat® Enterprise Linux® or Oracle Enterprise Linux) and SAP HANA databases (SPS 10, 11 on SUSE Linux 11, SP3 and SPS 12 on SUSE Linux 12 SP1). Microsoft Exchange 2010, 2013, 2016
Crash consistent protection	Any application with any OS supported by HPE 3PAR



Supported environments

HPE Technology Services

Expert **HPE storage** consultants and service professionals sit down with you and your team to map your storage needs. Not only can we help you accelerate implementation and reduce deployment risk, but we can also help you realize the full value of your storage purchases as you transform storage for the idea economy.

Advise, transform, and integrate

Navigate through the complexities of storage, backup, archive, disaster recovery, and Big Data with advisory, transformation, and integration consulting.

Deploy and implement

Access expertise to support deployment, operations, relocation, sanitization, and disposal, plus improvement-focused education.

Operate and support

Find the level of personalized, proactive, and simplified support right for your business.

Note: Specific service availability varies by product.

Foundation Care

System-level IT hardware and software support delivers flexible coverage window and response time for more choice and simplicity.

Proactive Care

Combined reactive and proactive services provide easy-to-purchase, cost-efficient system-level support coupled with personalized expert advice and products connected to **Hewlett Packard Enterprise** to help prevent problems and reduce downtime.

HPE Proactive Care Advanced builds and incorporates on **Proactive Care** and also gives customers personalized technical and operational advice from an assigned, local account support manager for personalized technical collaboration, flexible access to specialist skills to help optimize business-critical IT, and enhanced critical incident management to help so the business is not affected if there is a system or device outage.

Datacenter Care

Get the support you need to deploy, operate, and evolve your data center environment to be hybrid-cloud ready with single-point-of-accountability for HPE and others' product. Get connected and get back to business—HPE Storage Technology Services provide the path to get your **HPE Storage solutions** and your business connected to Hewlett Packard Enterprise. Once connected, our experts are able to scan your system and run health checks, then use that data to create personalized reports and recommendations for actions to take to prevent problems and downtime.

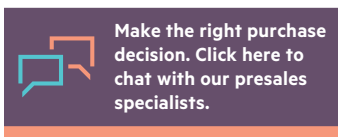
For more information, visit hpe.com/services/storage.

Learn more at

hpe.com/storage/rmc

hpe.com/storage/storeonce

hpe.com/storage/3par



Sign up for updates

© Copyright 2014–2017 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries. Oracle is a registered trademark of Oracle and/or its affiliates. Red Hat is a registered trademark of Red Hat, Inc. in the United States and other countries. SAP HANA is the trademark or registered trademark of SAP SE in Germany and in several other countries. Linux is the registered trademark of Linus Torvalds in the U.S. and other countries. VMware and VMware vCenter are registered trademarks or trademarks of VMware, Inc. in the United States and/or other jurisdictions. All other third-party trademark(s) is/are property of their respective owner(s).

