Datasheet

OnCommand Unified Manager
Automated monitoring, provisioning, and protection for NetApp storage systems

**KEY BENEFITS**

**Unify Storage Management**
Perform storage setup, configuration, protection, management, monitoring, and reporting, all through a single user interface.

**Realize Storage Management Efficiency**
Realize administrative savings with storage pooling, thin provisioning, local and remote data protection, policy-based automation, a service catalog, and automated workflows.

**Integrate with Virtualization Platforms and IT Frameworks**
Manage storage to the virtual machine level and integrate with leading IT management and cloud frameworks.

**Monitor Cluster-Mode Operations**
Monitor, alert, report, and run Performance Advisor capabilities for Data ONTAP® software in 7-Mode or Cluster-Mode.

**The Challenge**
IT teams need to manage exponential data growth, multivendor infrastructures, and physical as well as virtual environments while meeting changing business requirements and controlling costs. Many IT resources have a management interface controlling only one silo of technology. But with products from multiple vendors, administrators are forced to learn many different tools, each viewed through its own “pane of glass.”

**The Solution**
Unified storage management for shared storage
Only NetApp® OnCommand® Unified Manager delivers unified management of physical and virtual storage environments using integrated workflows and policy-driven automation. From a single interface, Unified Manager consolidates and simplifies shared IT storage management, delivering greater flexibility and efficiency than that of competing approaches.

**Unified view for storage savings**
Unified Manager displays your NetApp storage environment—up to hundreds of systems—as one or more pools of capacity using policy-based automation for provisioning and data protection. This results in up to 50% savings in storage costs. A central dashboard shows storage status at a glance with intuitive charts and point-and-click drill-downs. Unified Manager integrates with virtualized environments, third-party management suites, and cloud orchestration products, letting you manage from your platform of choice.

**OnCommand Unified Manager for Storage Management Simplified**
Unified Manager simplifies storage by consolidating the view of key management elements and capabilities, reducing system footprint and complexity.

**Efficient**
Unified Manager reduces operating costs through streamlined and automated administration. It lowers capital expense with data reducing deduplication, compression, and thin provisioning.

**Flexible**
Unified Manager lets IT teams rapidly respond to business demands with a single dashboard with visibility across 7-Mode or Cluster-Mode storage infrastructure and an open API for integration with IT service and cloud management frameworks.

**Manage from a Service Perspective**
With IT organizations evolving to service-based models and cloud architectures, they need tools that do more than manage from a system.
perspective. OnCommand Unified Manager is a comprehensive software solution enabling administrators to manage data across applications, databases, servers, and storage, and to do so within the context of services and service levels. The software provides foundational capabilities such as monitoring, reporting, security, performance management, and role-based access control that can manage internal storage clouds and multi-tenant storage environments or work within enterprise IT-as-a-service solutions.

OnCommand Unified Manager provides holistic management of your storage infrastructure with:

- Unified and extensible policy infrastructure
- Uniform management across workloads
- Single configuration repository for reporting, event, and audit logs
- Flexible user interface choice
- Scalable features serving mid-sized to enterprise-class customers

Unified Manager for Data ONTAP 8.1x operating in Cluster-Mode provides fundamental capabilities for monitoring, alerting, and reporting in support of this newest innovation in enterprise-class scale-out storage.

How Unified Manager Works

NetApp storage management with OnCommand Unified Manager

OnCommand Unified Manager provides unmatched visibility into your NetApp storage environment by continuously monitoring and analyzing storage and system events at scale. Unified Manager works across environments with multiple storage systems, up to hundreds per instance. With a configurable dashboard, you get a unified view of what is deployed, how it is being utilized, and up-to-the-minute status. This enables you to increase the efficiency of IT administrators and improve storage utilization and resource uptime even as your data grows from terabytes to petabytes.

Operational management with Unified Manager

Unified Manager simplifies and standardizes storage operations, which improves the productivity of storage administrators and enables teams to scale capacity without additional head count. With just a few clicks, administrators can drill down to detailed information about storage systems as soon as issues are detected. Automated workflows replace repetitive, time-intensive tasks. Role-based access control enables extended team members or server and database administrators to perform tasks while compliance is enabled. Policy settings include:

- Capacity
- Storage media characteristics
- Space provisioning requirements
- Access mechanisms
- Security settings

Provisioning with Unified Manager

Unified Manager increases operating efficiency and eliminates hands-on complexity by streamlining the capacity provisioning process. And with policy-based automation features, Unified Manager allows you to provision and protect data at the same time. No additional steps or time are required.

Provisioning with OnCommand Unified Manager lets you:

- Automate complex provisioning processes
- Leverage storage services defined and managed in your service catalog
- Check policy conformance
- Provision storage within the confines set by the storage architect
- Migrate datasets easily between storage systems without disrupting access
- Automate deduplication and thin provisioning capabilities and immediately see their benefits
Protecting your data with OnCommand Unified Manager

OnCommand Unified Manager protects data by providing administrators with an easy-to-use management console to quickly configure and control all SnapMirror®, SnapVault®, Open Systems SnapVault, and SnapManager® operations. Similar data can be combined within datasets, allowing administrators to apply consistent data protection policies across the enterprise, automate complex data protection processes, and pool backup and replication resources for higher utilization. The Unified Manager dashboard depicts comprehensive data protection information at a glance, including unprotected data and protection jobs not meeting SLAs.

Performance management with Unified Manager

The Performance Advisor capability within Unified Manager provides performance information about storage systems and vFiler® units, tracking both physical and logical objects. The capability can report on real-time or historic data performance metrics, perform system health checks, basic capacity and trend analysis, as well as basic chargeback.

Automating with the Storage Service Catalog

The Storage Service Catalog, a component of OnCommand Unified Manager, represents a key NetApp differentiator for service automation. It lets you integrate storage provisioning policies, data protection policies, and storage resource pools into a single service offering that administrators can choose when provisioning storage. This automates both the provisioning and protection processes together, and, more importantly, provides the means to manage storage in terms of services and service levels.

VMware data management with Unified Manager

Along with the OnCommand Unified Manager Core package comes the Host package, which enables management of data within VMware® environments. The Host package provides virtual machine (VM) awareness for the grouping and protecting of VMs through the storage administrator console. This enables the management of both physical and virtual data in a single view.

Developing on Unified Manager

Unified Manager includes the OnCommand API as well as the NetApp Management SDK. By developing with the SDK and open API, you can integrate NetApp storage with your homegrown business applications or create storage-as-a-service solutions by connecting with a self-service portal or cloud orchestration product.

Cluster-Mode operations with Unified Manager

Unified Manager 5.1 provides basic Data ONTAP 8.1x Cluster-Mode monitoring, alerting, and reporting in order to facilitate your organization’s adoption of this exciting new scale-out technology. Unified Manager provides visibility of Cluster-Mode objects including clusters, Vservers, and larger-sized aggregates. In addition, this release comes with a Performance Advisor capability enhanced for Cluster-Mode that is able to track IOPS, latency, and throughput for both physical and logical cluster objects.

The OnCommand Product Portfolio

OnCommand management software is a family of products designed to make NetApp storage the best solution for physical, virtual, and cloud
environments. The family includes products that help you control, automate, analyze, and integrate your storage. This table highlights key products in the portfolio.

**Control your NetApp storage with System Manager, Report, and My AutoSupport**

OnCommand System Manager provides simple, workflow-based wizards to automate the most common device management tasks. With System Manager, administrators can quickly set up and efficiently manage NetApp SAN and NAS systems without having to be storage experts. OnCommand Report provides merged reporting for multisite Unified Manager environments. My AutoSupport is a Web-based service that provides automated health checks and phone-home capabilities that help speed Support troubleshooting and improve overall uptime.

**Automate with OnCommand Unified Manager and NetApp Workflow Automation**

OnCommand Unified Manager integrates the functions of provisioning, protection, and daily operations behind a unified dashboard and event management and reporting capability to deliver NetApp storage management efficiency at scale. The new NetApp Workflow Automation product lets storage architects design and publish customized storage workflows that can be used consistently by downstream operators across organizations and over time.

**Analyze your shared infrastructure with OnCommand Insight products**

OnCommand Insight products provide visibility into your end-to-end infrastructure to help you optimize your shared IT infrastructure. With OnCommand Insight you can optimize performance, plan your capacity requirements, and deliver on your promised service levels. Insight products support NetApp as well as non-NetApp storage products.

**Integrate NetApp storage into your cloud environment**

SnapManager, SnapDrive, SnapCreator™, and related plug-in software provide the ability to automate protection of your data from the management console you are most familiar with. NetApp SnapManager and related software support a wide variety of environments, including Microsoft®, VMware, Oracle®, and SAP®. The OnCommand API offers integration for homegrown applications, third-party management frameworks, and cloud orchestration software to leverage the storage abstraction and policy-based automation features of the OnCommand Unified Manager platform.

**Learn More**

To learn more about how NetApp OnCommand management software provides the efficiency needed to keep pace with data growth and changing business requirements, contact your local NetApp partner or sales representative.

**About NetApp**

NetApp creates innovative storage and data management solutions that deliver outstanding cost efficiency and accelerate business breakthroughs. Discover our passion for helping companies around the world go further, faster at www.netapp.com.

Go further, faster™

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**Figure 3) NetApp OnCommand product portfolio.**

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