



Product Bulletin:

NetApp Data Motion (Data ONTAP 7.3.3 and Operations Manager 4.0)

Revision History

9 March 2010—Initial Version

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This product bulletin informs NetApp sales and NetApp partners about new or changed NetApp® products or services.

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1. Summary

This product bulletin announces the availability of NetApp Data Motion™, built on Data ONTAP® 7.3.3 and Provisioning Manager 4.0.

A significant challenge that administrators of shared infrastructure face is coordinating outage windows across many applications with many application administrators. NetApp Data Motion solves this challenge by avoiding the need to shut down an application during the migration of the application's data from one array to another. This capability facilitates equipment refresh, capacity management, maintenance, and performance load balancing.

NetApp Data Motion provides non-disruptive migration of an application's data from one NetApp HA array to another HA array for workloads contained within MultiStore® vFiler™ units using NFS or iSCSI storage protocols. This capability is known as data mobility or live migration. It is a critical requirement for shared storage environments such as server virtualization, secure multi-tenancy, the NetApp Dynamic Data Center, and cloud infrastructures in which many applications residing on the same hardware demand that the infrastructure provide non-disruptive operation.

NetApp is uniquely positioned because MultiStore provides data mobility hand in hand with multi-tenancy.

NetApp Provisioning Manager 4.0 is a mandatory component of NetApp Data Motion and provides centralized management of the migration process along with pre- and post-checking of the migration. When NetApp Data Motion is used in conjunction with Protection Manager, all data protection relationships are also migrated and reestablished on the destination system.

2. What's New?

With NetApp Data Motion (the integrated combination of Data ONTAP 7.3.3 and Provisioning Manager 4.0), NetApp now supports customers moving application workloads from one array to another without shutting down the application.

Data ONTAP 7.3.3 includes substantial tuning, bug fixes, hardening, and fencing of the vFiler migrate mechanism, along with integration with SnapMirror® Semi-Sync and Provisioning Manager 4.0, to enable migration from one HA array to another to complete in the specified time. NetApp Data Motion uses the

MultiStore vFiler container as the unit of mobility.

The release includes an API in the Manageability SDK to allow high-level orchestration systems to trigger and control the migration in addition to the Provisioning Manager GUI and CLI.

NetApp Data Motion™ supports a wide number of configurations including dedupe and FlexClone® at the file or LUN level under low to medium load. To achieve the fastest migration, and hence have minimal impact, NetApp recommends that NetApp Data Motion be performed at nonpeak times or periods of lower load. Please see the TR and FAQ for additional details and recommended monitoring during migration in which dedupe or FlexClone® at the file or LUN level exist on either the source or destination system.

The TR 3814 includes a table with details of all the supported configurations.

3. Sales and Customer-Ready Tools

Solution Collateral

The NetApp Data Motion Field Portal binder (https://fieldportal.netapp.com/myre_viewbinder.asp?id=874) contains:

- NetApp Data Motion Customer Presentation
- NetApp Data Motion Datasheet
- NetApp Data Motion Quick Reference Guide
- NetApp Data Motion Sales Training Presentation
- NetApp Data Motion SE Training Presentation
- NetApp Data Motion Technical and Sales FAQ

Key Related Documents

- “Data Motion Best Practices,” TR-3814: www.netapp.com/us/library/technical-reports/tr-3814.html
- NetApp Nondisruptive Operation Community site: <http://communities.netapp.com/groups/non-disruptive-operations>
- “Data ONTAP 7.3.3 MultiStore Management Guide” (on the NOW™ site)
- “Operations Manager 4.0: Provisioning Manager and Protection Manager Administration Guide”

4. System Requirements

NetApp Data Motion requires Data ONTAP 7.3.3 and Operations Manager 4.0. The following licenses are required for Data Motion to operate.

- Mandatory: NetApp MultiStore, SnapMirror, Operations Manager, and Provisioning Manager
- The protocol to be used (NFS or iSCSI)
- Note that NetApp Data Motion also requires the synchronous SnapMirror license—this is available at no cost to licensed SnapMirror customers; the NetApp Data Motion FAQ includes details on obtaining and using the synchronous SnapMirror license
- Optional license: Protection Manager—When data protection is configured using Protection Manager, the data protection policies are migrated as part of the NetApp Data Motion process

NetApp Data Motion is supported on FAS and V-Series HA pairs as well as on NetApp MetroCluster systems. Supported models include:

- FAS2020A, FAS2040A, FAS2050A, FAS3020A, FAS3040A, FAS3050A, FAS3070A, FAS3140A, FAS3160A, FAS3170A, FAS6040A, FAS6070A, FAS6080A
- NetApp MetroCluster platforms
- NetApp V-Series systems: V6000, V3100
- Note that varying limitations exist on the numbers of FlexVol® volumes per MultiStore vFiler unit based on the array model; see the NetApp Data Motion FAQ or best-practices TR for details

5. Product Information

NetApp Data Motion requires customers to acquire the licenses listed in “System Requirements,” above. Two bundles exist that can be leveraged for NetApp Data Motion:

- For the **FAS2xxxA**, the **NetApp Select™ Complete Bundle** includes all the licenses required to enable NetApp Data Motion for the channel.

- For the FAS3140A and FAS3170A, the QuickStart Virtualization bundles recently released are the recommended foundation for NetApp Data Motion. **For NetApp Data Motion you MUST add Operations Manager and Provisioning Manager (and optionally Protection Manager); this can be done at the same discount as the QuickStart Virtualization bundle.** See [PB Virtualization QuickStart Bundles 1109](#) for more details on the QuickStart Virtualization bundles.
- Customers purchasing FAS6xxxA systems and FAS3160A will need to purchase all licenses described in the “System Requirements” section in order to make use of NetApp Data Motion.

Recommended: If Protection Manager is included with the other licenses, NetApp Data Motion enables data protection relationships to be migrated. Otherwise, customers will need to manually reestablish the data protection mechanism on the new array.

Downloading

For downloading software go to [NOW Download Software](#). (Both Data ONTAP 7.3.3 and Operations Manager 4.0 are required.)

Product Availability

NetApp Data Motion is available with the release of Operations Manager 4.0 FCS (Provisioning Manager) as of 18 February 2010. Data ONTAP 7.3.3 RC1 was shipped at the end of January 2010.

6. Regulatory Compliance

Regulatory compliance is as per Data ONTAP 7.3.3 and Provisioning Manager 4.0 compliance. This information can be found in the Field Portal by searching under “Compliance, Policies and Procedures.”

7. Warranty and Service

These are as per warranty and service purchased for Data ONTAP 7.3.3 and Provisioning Manager 4.0.

8. Additional Information

Contact Information: Please contact your NetApp sales or channel partner representative with questions concerning this bulletin.

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