

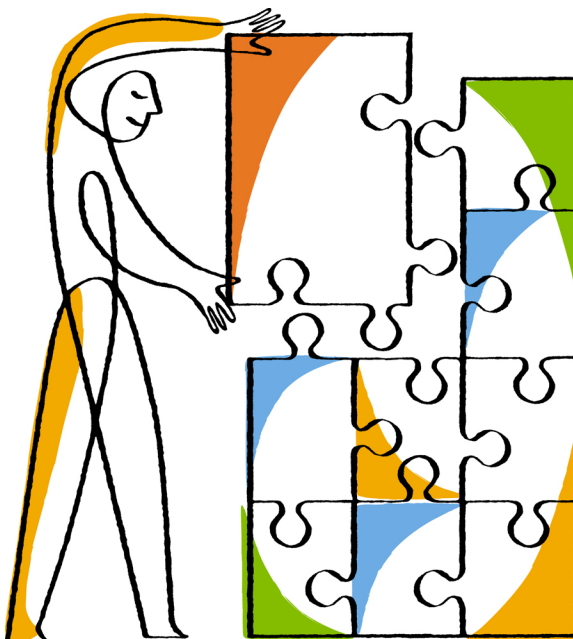


Release Candidate Documentation - Contents Subject To Change

OnCommand® Unified Manager

Core Package 5.2 RC1 Release Notes

For Clustered Data ONTAP



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OnCommand Unified Manager Core Package 5.2

Release Notes overview

The release notes describe new features, fixed issues, and known issues for OnCommand Unified Manager Core Package 5.2.

Overview of the Core Package

OnCommand Unified Manager Core Package is part of the OnCommand family of NetApp management software. OnCommand Unified Manager is the product name for the combination of the Core Package and the Host Package.

OnCommand Unified Manager Core Package brings together multiple products, including Operations Manager, into a single framework that provides an integrated, policy-based data and storage management solution for virtual and physical environments.

OnCommand Unified Manager Core Package components

The following components are included in OnCommand Unified Manager Core Package:

OnCommand console	Provides the primary graphical interface to monitor, manage, and report in virtual and physical environments.
DataFabric Manager server	Provides the services and database for your storage environment.
Operations Manager console	Enables comprehensive monitoring and management of storage objects, with alerts and reports, in addition to performance and configuration tools.

OnCommand Unified Manager Core Package new features

OnCommand Unified Manager Core Package 5.2 includes new features such as support for the licensing infrastructure in Data ONTAP 8.2, updated reports to identify Flash Pool enabled aggregates, and capability to remotely mount and restore dataset backups on a VMware ESX server.

Data ONTAP 8.2 support

OnCommand Unified Manager Core Package 5.2 supports the licensing changes implemented in Data ONTAP 8.2.

To monitor and manage Data ONTAP 8.2 controllers, you must use OnCommand Unified Manager Core Package 5.2.

Validation of DataFabric Manager server database

The upgrade operation is aborted if the DataFabric Manager server database is corrupted.

Flash Pool support

The Aggregates view and Aggregates report include information about aggregates that are Flash Pool enabled.

Tool for debugging

Data Collector, a debugging tool, is available with OnCommand Unified Manager Core Package. You can use this tool to collect diagnostic information to resolve issues in the DataFabric Manager server.

Sybase support

The DataFabric Manager server includes Sybase server 11.0.1.2811.

Apache support

The DataFabric Manager server includes Apache 2.2.23.

OpenSSL support

The DataFabric Manager server includes OpenSSL 1.0.1c.

OnCommand Unified Manager Core Package changes

You should be aware of the features that are changed or enhanced in this release.

The changes in this release are as follows:

Removal of 32-bit installer	You can install OnCommand Unified Manager Core Package 5.2 on 64-bit servers only.
Performance enhancement	The upgrade operation cleans the DataFabric Manager server database by removing the storage objects that are marked-deleted in the database and the associated entries in the history tables. By removing events older than 180 days from the day of installation or upgrade, or as specified in the <code>eventsPurgeInterval</code> option. Cleaning the marked-deleted objects improves the performance of the DataFabric Manager server database.
CPU monitoring is disabled	CPU monitoring is disabled by default on a newly installed DataFabric Manager server. The CPU Usage (%) graph data is not available. CPU monitoring is also disabled by default if you have upgraded to OnCommand Unified Manager Core Package 5.2. The data in the CPU Usage (%) graph expires over a period of time. The historical data is available in the CPU Usage (%) graph in both the OnCommand console and Operations Manager console until they reach expiry.
DataFabric Manager server uses SSH protocol	The DataFabric Manager server uses the SSH protocol by default for storage system communications. If you previously set the RSH protocol as the default on your Windows Server 2008 system, you should set the default to SSH.

Related information

Customer Product Communiqué: support.netapp.com/info/communications/ECMP1110544.html

System requirements

Before you begin the software installation process, you must ensure that your host system conforms to all supported platform requirements. Servers running OnCommand Unified Manager Core Package or OnCommand Unified Manager Host Package must meet specific software, hardware, and operating system requirements.

For software, hardware, and operating system requirements or the most current requirements, see the Interoperability Matrix Tool.

To ensure that the system running the OnCommand console is secure, you must be aware of the following:

- You must not open any web sites on the browser that you use to open the OnCommand console. You should install and use a non-default browser to open the OnCommand console.
- You should adhere to the security best practices that suit your host system.

Related information

[Interoperability Matrix: support.netapp.com/NOW/products/interoperability](http://support.netapp.com/NOW/products/interoperability)

OnCommand Unified Manager Core Package 5.2 fixed issues

Some known issues are fixed in OnCommand Unified Manager Core Package 5.2.

For details about each bug, see the bug ID in Bugs Online on the NetApp Support Site at support.netapp.com/NOW/cgi-bin/bol.

The dfmmonitor service stops responding (614915)

If you have installed OnCommand Unified Manager Core Package on a Linux system that does not have RSH installed, the dfmmonitor might stop responding. This issue might occur on the DataFabric Manager server that manages either 7-Mode objects or clustered Data ONTAP objects.

Report share functionality unavailable through OnCommand console for users who do not have Read permission for the Global group

If you do not have permission to read the Global group, you cannot use OnCommand console to schedule and share any reports.

DataFabric Manager server does not generate node down alert

The DataFabric Manager server fails to generate an alert for the host/cluster down event when the last active node of the cluster fails after all the other nodes have failed.

Network and port traffic information is not displayed

Because of updates to Data ONTAP counters, the network and port information for clusters running Data ONTAP 8.0 or later is not displayed in the Operations Manager console and in the Performance Advisor reports.

An error message is logged in the dfmmonitor.log file stating that the DataFabric Manager server is unable to traverse the nodeStats table.

OnCommand Unified Manager Core Package limitations

OnCommand Unified Manager Core Package 5.2 includes limitations that you should consider before you configure your environment, such as cannot discover Infinite Volumes.

- DataFabric Manager server does not discover Infinite Volumes.
Infinite Volumes are contained in Vservers with Infinite Volume. Because the DataFabric Manager server does not discover Vservers with Infinite Volume, Infinite Volumes are not discovered.
- Support for DS4486 disk shelves is limited to monitoring the disk shelves by the DataFabric Manager server.
- You cannot enable, disable, or schedule reports from the CLI.

Related information

[Interoperability Matrix: support.netapp.com/NOW/products/interoperability](http://support.netapp.com/NOW/products/interoperability)

OnCommand Unified Manager Core Package 5.2 known issues

The known issues are organized based on the functionality available in the product.

- [Installer issues](#) on page 12
- [Performance Advisor issues](#) on page 12
- [Data ONTAP issues](#) on page 13
- [Console issues](#) on page 14
- [Report issues](#) on page 16
- [DataFabric Manager server service issues](#) on page 17
- [Others known issues](#) on page 18

For details about each bug, see the bug ID in Bugs Online on the NetApp Support Site at support.netapp.com/NOW/cgi-bin/bol.

Installer issues

You might encounter issues while installing or upgrading OnCommand Unified Manager Core Package in your environment.

Storage systems protected by the OnCommand console or NetApp Management Console must not be upgraded to clustered Data ONTAP

All objects that are protected and provisioned by the OnCommand console or NetApp Management Console must reside on storage systems running Data ONTAP operating in 7-Mode.

If a 7-Mode storage system that contains objects that use or support OnCommand console-managed protection or NetApp Management Console-managed protection is upgraded to clustered Data ONTAP, serious errors and failures result.

Workaround

None.

Performance Advisor issues

You should be aware of the known issues when using Performance Advisor in your environment.

Changing the Performance Advisor perfTopnchartinterval setting might require you to restart NetApp Management Console

If you modify the Performance Advisor perfTopnchartinterval setting to change your data sampling rate, the chart data in Performance Advisor Monitor Dashboard panels might not be consistently displayed until you restart your NetApp Management Console session.

Workaround

After you use the CLI command `dfm options set perfTopnchartinterval` to change the data sampling and update rate for the panels in the Performance Advisor's Monitor Dashboard window, you must login again to NetApp Management Console to reliably view those updated panels.

Delay in updating entries in the Top Network Interface view

The Top Network Interface view does not display updated information about global groups because there is a delay in updating the objectMap table.

Workaround

None.

Issues related to Data ONTAP

You must be aware of the known issues related to Data ONTAP.

OnCommand console and Operations Manager console do not display disk information for objects in clustered Data ONTAP 8.0.4

When you add objects from clusters running Data ONTAP 8.0.4 to the DataFabric Manager server, the server does not discover information about the disks in the storage system.

Data ONTAP 8.0.4 does not support disk monitoring and therefore disk information is not displayed in the OnCommand console or the Operations Manager console reports.

Workaround

None.

DataFabric Manager server does not discover qtrees and Snapshot copies

In a cluster, if one node is running Data ONTAP 8.0 and another node is running Data ONTAP 8.1, the DataFabric Manager server does not discover the qtrees and Snapshot copies.

When the cluster has nodes running two different Data ONTAP versions, objects from the earlier version—Data ONTAP 8.0—are discovered. Discovery of qtrees and Snapshot copies is not supported for clusters running Data ONTAP 8.0.

Workaround

None.

OnCommand console issues

You should be aware of the known issues when using the OnCommand console.

Memory leak on Internet Explorer 9 (682024)

If you have logged in to the OnCommand console and it is left unattended for 5 days or more on Internet Explorer, a memory leak occurs. The memory leak might also occur if the DataFabric Manager server is loaded with too many controllers.

Workaround

Close the Internet Explorer browser and launch OnCommand console in a new browser window.

Groups tab displays incorrect values for total capacity and used capacity

When storage controllers, aggregates, volumes, qtrees, and clusters are members of a group, the values displayed for total capacity and used capacity are incorrect.

Workaround

View the correct values for total capacity and used capacity from either the appropriate storage inventories (Storage Controllers view, Aggregates view, Volumes view, Qtrees view, and Clusters view) or the storage capacity reports.

The OnCommand console repeatedly prompts for login credentials

After the Core Package installation is complete, the OnCommand console repeatedly prompts for the user name and password.

Workaround

Clear the browser cache, and restart the browser.

OnCommand console displays duplicate e0M ports

If you add a storage system running Data ONTAP 8.2 to OnCommand Unified Manager Core Package 5.1, the OnCommand console displays duplicate entries of the e0M port.

OnCommand Unified Manager Core Package 5.1 does not support Data ONTAP 8.2. You must use OnCommand Unified Manager Core Package 5.2 to monitor storage systems running Data ONTAP 8.2.

Workaround

To allow DataFabric Manager server to discover and monitor Data ONTAP 8.2 objects, perform the following steps:

1. Delete the Data ONTAP 8.2 storage systems from OnCommand Unified Manager Core Package 5.1.
2. Upgrade to OnCommand Unified Manager Core Package 5.2.
3. Add the Data ONTAP 8.2 storage systems.

Charts are not displayed after disabling HTTP and enabling HTTPS

If you disable HTTP and enable HTTPS, and then access the OnCommand console by using the IP address, charts and icons are not displayed.

Workaround

Use an FQDN the first time you access the OnCommand console to view the charts and icons.

Internet Explorer does not display content in the OnCommand console if HTTPS is configured

If the DataFabric Manager server is configured for HTTPS, Internet Explorer displays the following message: This Web page contains content that will not be delivered using a secure HTTPS connection, which could compromise the security of the entire Web page.

After the error message is displayed, when you choose to view the content of the page either securely or not securely, the OnCommand console does not display any content.

Edit Group Membership page displayed incorrectly in the Operations Manager console

The Edit Group Membership page is not displayed correctly when the Operations Manager console is opened in the Internet Explorer 8 browser. The **Groups Member** text box is displayed in a separate pane at the bottom of the Edit Group Membership page.

Workaround

1. Launch the OnCommand console.
2. Click the **Administration** menu, and then click the **Groups** option.
3. From the **Groups** tab, select the group you want to modify.
4. Click **Edit**.

Breadcrumb trail not updated

When you navigate from one group to another in the Groups list, the breadcrumb trail in the Storage tab and Server tab does not display the updated trail information.

For example, in the storage controller view, when you double-click an object O1, which belongs to the group G1, the breadcrumb trail is modified to display the list view of O1. However, if you select another group, G2, from the Groups list to which O1 does not belong, the breadcrumb trail is not updated.

Workaround

Click the parent breadcrumb object to update the trail information.

Storage tab displays blank page

When you perform a particular task from the Storage tab, then navigate away from the tab and return to it, a blank page is displayed. This occurs when you add an object to a group from any of the inventory views, navigate to another tab, change from the Global group to the group you added the object to, and then return to the Storage tab.

Workaround

To update the page, click any inventory view and return to your previous view.

Report issues

You should be aware of the known issues related to report generation of the DataFabric Manager server database, and issues related to the display of reports.

The dfm report view command fails with an error message

When you run the `dfm report view` command, the following error message is displayed when the Web UI service is down: `http_open_url_socket failed with return value -2. Please validate dfm http and webui services are running correctly.`

When you log in to view the DataFabric Manager server reports from the OnCommand console, the session expires.

Workaround

None.

Blank reports generated after an upgrade

After you upgrade to OnCommand Unified Manager Core Package 5.1 or later in order to manage a clustered environment, the reports generated for 7-Mode objects are blank. Blank reports are generated because the schedules for the 7-Mode objects are not deleted after the upgrade.

Workaround

Delete the 7-Mode report schedules by using the following command:

```
dfm report schedule designer delete report schedule name
```

Events Current report shows wrong event name

The events Volume Quota Overcommitted and Volume Quota Not Overcommitted are named incorrectly in the Events Current report. Information provided as Volume Quota Not Overcommitted should be read as Volume Quota Overcommitted. Information provided as Volume Quota Overcommitted should be read as Volume Quota Not Overcommitted.

Workaround

None.

DataFabric Manager server service issues

You should be aware of the known issues in the DataFabric Manager server services.

The dfm service start http command fails with an error message

If you cancel the `dfm ssl server setup` command, and then stop and restart the HTTP service, the `dfm service start http` command fails with the following error message:

```
SSLCertificateKeyFile: file '/opt/NTAPdfm/conf/server.key' does not exist  
or is empty.
```

The `dfm service start http` command fails because the `server.key` file is deleted when you cancel the `dfm ssl server setup` command.

Workaround

Run the `dfm ssl server setup` command before running the `dfm service start http` command.

Windows server stops responding when the dfm service stop -k command is run

After a restore operation is complete, when you run the `dfm service stop -k` command, the Windows server might stop responding and reboot.

Workaround

Perform the following steps to complete the restore operation successfully:

1. Stop all services except the SQL service.
2. Take a new backup.
3. Restore the new backup.

Others issues

You should be aware of the known issues in your environment.

Unable to add a cluster to the DataFabric Manager server with SNMP

When you run the `dfm host add` command, adding a cluster fails with an error message stating that the host cannot be contacted. This issue occurs when the Windows firewall policies—domain, public, and private—are enabled.

Workaround

Disable the domain firewall policy to add the clusters to the DataFabric Manager server. You must keep the domain firewall policy disabled to allow monitoring of the cluster.

Cannot create alarms with an SNMP traphost

If you create an alarm with an SNMP traphost in the `community@<ip>:port` format, the alarm fails with an error message indicating that the traphost address is invalid.

Workaround

Use the `dfm alarm create -A` command with full Lightweight Directory Access Protocol name to create an alarm with an SNMP traphost.

Email alerts generated for deleted objects

The DataFabric Manager server sends email alerts for deleted storage objects. The email provides a link to the event details on the OnCommand console; however, no details are available because the object is deleted.

Workaround

None.

DataFabric Manager server discovers obsolete storage objects after Data ONTAP reversion

When you revert the Data ONTAP version from 8.1.1 to 8.0.3, the DataFabric Manager server continues to discover objects from the earlier version.

Workaround

1. Delete the systems running Data ONTAP 8.1.1.
2. Add the systems running Data ONTAP 8.0.3.

Handling of Log4j internal errors

OnCommand console hides all Log4j internal errors from users, and in some cases, due to such errors, DataFabric Manager server log files might not be updated. These errors are not DataFabric Manager server errors and do not affect any processing of tasks.

Workaround

None.

DataFabric Manager server configured on a Microsoft cluster and configured as cluster services fails

If you configure DataFabric Manager server on a Microsoft cluster, and perform the `dfm datastore setup` operation, the DataFabric Manager server pauses to move the directories, and failover occurs. This causes the operation to fail.

Workaround

Follow these steps to resolve the issue:

1. Stop DataFabric Manager server cluster services.
2. Using the CLI, start the DataFabric Manager server services.
3. Run the `dfm datastore setup` command.
4. Start DataFabric Manager server cluster services.

Terminating a DataFabric Manager server restore operation by using Ctrl-C causes subsequent restore operations to end in SQL database failure (582930)

If you terminate a `dfm backup restore` operation by using Ctrl-C, subsequent attempts to restore end in SQL database failure, even if rollback of the terminated original restore operation succeeds.

A message similar to the following is displayed:

```
***** SQL error: Item
'/opt/NTAPdfm/data/monitordb.dbR' already exists
Error: Unable to upgrade the database to the latest file
       format.
Error: Service start failed.
```

Workaround

After you start `dfm backup restore`, observe the warning message and avoid terminating the operation by using Ctrl-C. If you cannot avoid this action, contact technical support for help in restoring database operations. Do not attempt to delete any database file without first contacting technical support.

Cannot change cluster management IP address in a newly added node

When you try to change the cluster management IP address to a newly added node in the cluster, the operation fails with an error message stating that the node is not a cluster.

Workaround

Set the cluster management IP address to the new node by running the following command:

```
dfm host set old_cluster_object_id hostPrimaryAddress=new_node_ip_address
```

Using the Data Collector tool

If you want technical support to resolve issues related to the DataFabric Manager server, you can use the Data Collector tool to generate a consolidated .tar file. The .tar contains log files required for resolving the issues.

This tool is available as part of the OnCommand Unified Manager Core Package.

1. Run the following command on the system running the DataFabric Manager server:

dfm datacollector

2. Log in to NetApp File Upload Utility to upload the .tar file.
You are prompted to install Aspera Connect when you open the NetApp File Upload Utility for the first time.
3. Enter the case number provided by technical support, and then validate.
4. Select the .tar file to be uploaded.
You can use HTTPS to upload the file.
5. Click **Upload**.

Related information

NetApp File Upload Utility: upload.netapp.com

Documentation changes

There are corrections or changes to the documentation provided with OnCommand Unified Manager Core Package 5.2. This information should be added to the documentation.

Update to setting up your system

You must configure Lightweight Directory Access Protocol (LDAP) to enable LDAP authentication to the DataFabric Manager server.

LDAP authentication is supported on a DataFabric Manager server that is installed on a Linux server.

For information about the LDAP options and its configuration steps, see the *OnCommand Unified Manager Online Help*.

Related information

[Documentation on the NetApp Support Site: support.netapp.com](http://support.netapp.com)

Update to upgrading OnCommand Unified Manager Core Package and restoring the database

You can view the `sybase.log` file, which is located at `install_directory/log/`, to monitor the progress of the database delete operation for the mode that is being removed.

This information should be included in the *OnCommand Unified Manager Installation and Setup Guide*.

When you upgrade a DataFabric Manager server that was earlier managing both 7-Mode and clustered Data ONTAP objects to a clustered environment, a message is displayed after you select the mode: Purging objects of undesired mode from the database. During a restore operation, you are prompted to delete the objects.

Update to adding thresholds using Performance Advisor

For storage systems running Data ONTAP 8.1.1 or later, you cannot use Performance Advisor to add thresholds for the `nfsv3:nfsv3_ops` counter.

Update to report scheduling

When you retain saved reports for a long period of time, you must delete the old reports or move the report archive directory `reportsArchiveDir` to a new location that has sufficient space.

You can delete the reports by using the `dfm report output delete` command.

Updated description of Volume Quota Overcommitted Threshold (%)

Volume Quota Overcommitted Threshold (%) specifies the percentage at which a volume is considered to have consumed the whole of the overcommitted quota space for that volume. A volume crosses this threshold if the sum of the tree quotas of all the qtrees in that volume is more than the volume quota overcommitted threshold.

This updated information should be included in the description for this field in the *OnCommand Unified Manager Online Help*.

Update to What Storage Capacity reports are topic

Space efficiency reports are available for 7-Mode environments only. This information is missing in the list item and section related to space efficiency reports in the “What Storage Capacity reports are” topic in the OnCommand console Help.

Performance threshold filters create unwanted events for clustered Data ONTAP objects

If a performance threshold is applied to a clustered Data ONTAP objects (such as a Vserver) by specifying the threshold filter value (such as system model), unwanted events are generated for all the cluster objects within the group, instead of the object that matches the filter value.

Correction to the Configuration requirements for OnCommand Core Package in VCS topic

DataFabric Manager server supports Native ext3 File System and Logical Volume Manager (LVM) only. The following statement in the Installation and Setup Guide is incorrect: Veritas File System

and Volume Manager on Native ext3 File System and Logical Volume Manager (LVM) must be used.

The statement should be read as follows: Native ext3 File System and Logical Volume Manager (LVM) must be used.

Update to the Primary IP field description in the Vservers view topic

The Primary IP field description in the Vservers view topic in the *OnCommand Unified Manager Online Help* is incorrect. The correct description is as follows: Displays the IP address of a LIF associated with the Vserver.

Web search engines can access DataFabric Manager server web pages

The DataFabric Manager server enables search engines to search, find, and index the web pages in the Operations Manager console; however, you can configure a text file to block search engine access, if required.

To block access by search engines to the web pages, create a file `robots.txt` in the directory `installpath/DFM/web`.

If the file contains only the following text, search engines do not search or index Operations Manager web pages:

```
User-agent: *  
Disallow: /
```

Where to find product documentation and other information

There are additional sources of information for this release of OnCommand Unified Manager Core Package.

Documentation map

The following table describes where to find additional information about OnCommand Unified Manager Core Package functionality:

To learn about...	Go to this information source...
How to monitor and manage multiple NetApp systems, storage resources, user quotas, content distribution, and appliance configuration	<i>OnCommand Unified Manager Operations Manager Administration Guide</i> and <i>Operations Manager Help</i>
How to use the CLI commands for the DataFabric Manager server, Content Management System, and NMC protection, provisioning, and disaster recovery capabilities	The help pages accessible from the command-line interface Manual (man) pages, which are also included in the <i>OnCommand Unified Manager Operations Manager Administration Guide</i>

Documentation on the NetApp Support Site

The OnCommand Unified Manager Core Package documentation set is available on the NetApp Support Site.

Online information

There are several ways to access online documentation and technical resources.

Online documentation	Included with your DataFabric Manager server software is a Web-based administration tool, Operations Manager console, and its Help. Included with your NetApp Management Console software is the Help for the protection, provisioning, and disaster recovery capabilities, and for Performance Advisor.
Other resources	From the Service and Support page on the NetApp Support Site, you can search the following sources of information: • Product documents • Knowledgebase solutions

- Bugs Tools
- The NetApp Support Site forums
- Tools and other documentation
- Partner knowledgebases

Where to find third-party source material

Operations Manager console and NMC contain LGPL-licensed packages.

Related information

NetApp Support Site: support.netapp.com

NetApp FTP Site: [ftp.netapp.com/frm-ntap/opensource](ftp://ftp.netapp.com/frm-ntap/opensource)

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