



Sample Microsoft Excel reports

Active IQ Unified Manager 9.13

NetApp

May 09, 2024

This PDF was generated from https://docs.netapp.com/us-en/active-iq-unified-manager-913/reporting/task_create_report_to_view_capacity.html on May 09, 2024. Always check docs.netapp.com for the latest.

Table of Contents

- Sample Microsoft Excel reports 1
 - Creating a report to show an aggregate capacity table and chart 1
 - Creating a report to show aggregate total versus available capacity charts 3
 - Creating a report to view available volume capacity charts 7
 - Creating a report to view aggregates that have the most available IOPS 9

Sample Microsoft Excel reports

These sample Microsoft Excel reports are intended to introduce reporting options available using Excel advanced features.

The advanced functionality of Excel can create a wide array of reports specific to your needs. For full information on how to use Excel, see the product documentation.



You must have the Application Administrator or Storage Administrator role to manage reports.

Creating a report to show an aggregate capacity table and chart

You can create a report to analyze capacity in an Excel file by using summed totals and the clustered column chart format.

What you'll need

- You must have the Application Administrator or Storage Administrator role.


Use the following steps to open a Health: All Aggregates view, download the view in Excel, create an available capacity chart, upload the customized Excel file, and schedule the final report.

Steps

1. In the left navigation pane, click **Storage > Aggregates**.
2. Select **Reports > Download Excel**.



Depending on your browser, you might need to click **OK** to save the file.

3. If needed, click **Enable Editing**.
4. In Excel, open the downloaded file.
5. Create a new sheet () after the data sheet and name it **Total Data Capacity**.
6. Add the following columns on the new Total Data Capacity sheet:
 - a. Total Data Capacity (GB)

- b. Committed Capacity (GB)
- c. Used Data Capacity (GB)
- d. Available Data Capacity (GB)

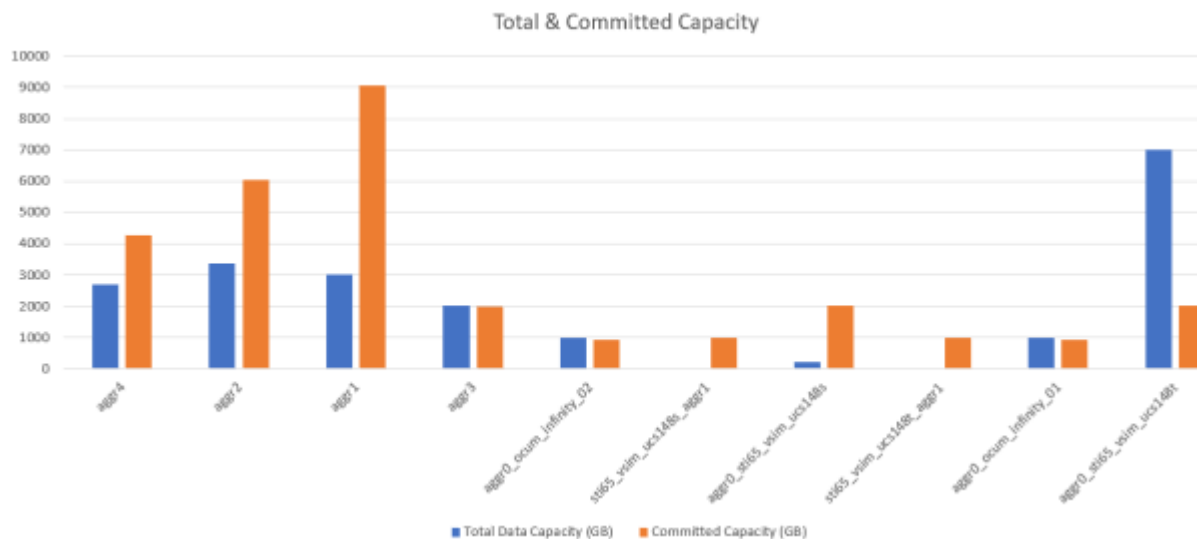
7. In the first row of each column, enter the following formula, making sure that it references the data sheet (data!), and references the correct column and row specifiers for the data captured (Total Data Capacity pulls data from column E, rows 2 through 20).

- a. =SUM(data!E\$2:data!E\$20)
- b. =SUM(data!F\$2:data!F\$50)
- c. =SUM(data!G\$2:data!G\$50)
- d. =SUM(data!H\$2:data!H\$50)

The formula totals each column based on the current data.

Total Data Capacity (GB)	Committed Capacity (GB)	Used Data Capacity (GB)	Available Data Capacity (GB)
5380.31	6892.47	11764.27	3911.03

- On the data sheet, select the **Total Data Capacity (GB)** and **Committed Capacity (GB)** columns.
- Select **Recommended Charts** from the **Insert** menu and select the **Clustered Column** chart.
- Right-click the chart and select **Move chart** to move the chart to the Total Data Capacity sheet.
- Using the **Design** and **Format** menus, which are available when the chart is selected, you can customize how the chart looks.
- When satisfied, save the file with your changes. Do not change the file name or location.



- In Unified Manager, select **Reports > Upload Excel**.

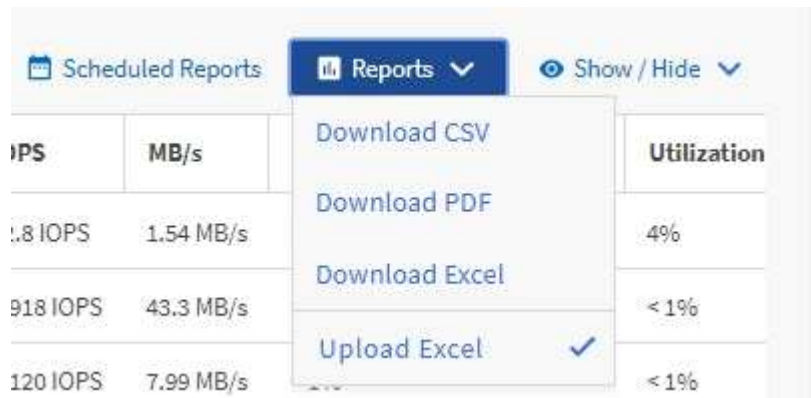


Make sure you are in the same view where you downloaded the Excel file.

- Select the Excel file you have modified.
- Click **Open**.

9. Click **Submit**.

A check mark appears beside the **Reports > Upload Excel** menu item.



The screenshot shows a web interface with a 'Reports' dropdown menu open. The menu options are 'Download CSV', 'Download PDF', 'Download Excel', and 'Upload Excel'. The 'Upload Excel' option is highlighted with a blue checkmark. In the background, a table displays storage metrics:

IOPS	MB/s	Utilization
1.8 IOPS	1.54 MB/s	4%
918 IOPS	43.3 MB/s	< 1%
120 IOPS	7.99 MB/s	< 1%

10. Click **Scheduled Reports**.

11. Click **Add Schedule** to add a new row to the Report Schedules page so that you can define the schedule characteristics for the new report.



Select the **XLSX** format for the report.

12. Enter a name for the report schedule and complete the other report fields, then click the check mark (✓) at the end of the row.

The report is sent immediately as a test. After that, the report generates and is sent by email to the recipients listed using the specified frequency.

Based on the results shown in the report, you might want to investigate how to best use the available capacity across your network.

Creating a report to show aggregate total versus available capacity charts

You can create a report to analyze storage total and committed capacity in an Excel chart format.

What you'll need

- You must have the Application Administrator or Storage Administrator role.

Use the following steps to open a Health: All Aggregates view, download the view in Excel, create a total and committed capacity chart, upload the customized Excel file, and schedule the final report.

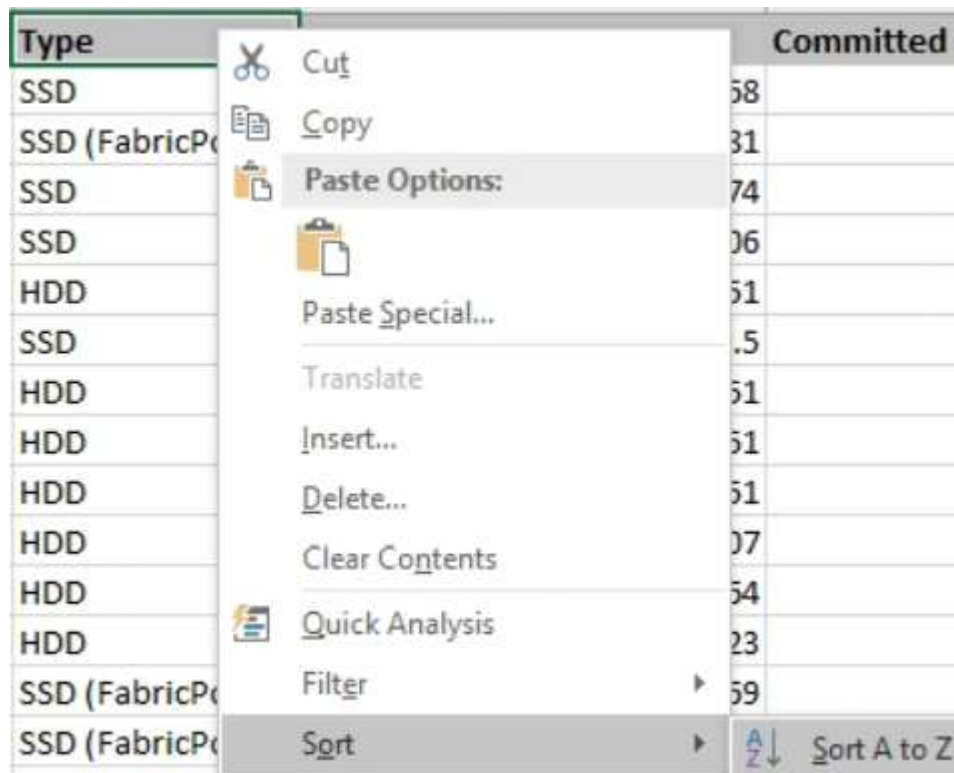
Steps

1. In the left navigation pane, click **Storage > Aggregates**.
2. Select **Reports > Download Excel**.



Depending on your browser, you might need to click **OK** to save the file.

3. In Excel, open the downloaded file.
4. If needed, click **Enable Editing**.
5. On the data sheet, right-click the Type column and select **Sort > Sort A to Z**.



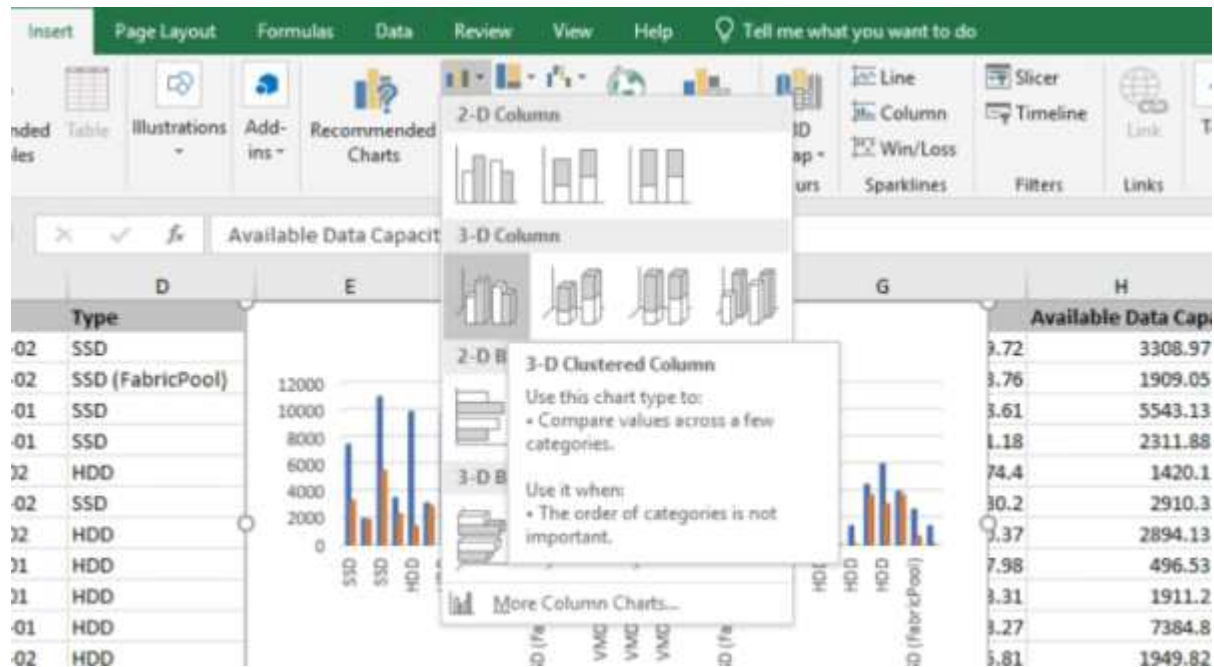
This will arrange your data by storage type, such as:

- HDD
- Hybrid
- SSD
- SSD (FabricPool)

6. Select the Type, Total Data Capacity, and Available Data Capacity columns.

7. On the **Insert** menu, select a 3-D column chart.

The chart appears on the data sheet.



8. Right-click the chart and select **Move Chart**.

9. Select **New sheet** and name the sheet **Total Storage Charts**.



Make sure the new sheet appears after the info and data sheets.

10. Name the chart title **Total versus Available Capacity**.

11. Using the **Design** and **Format** menus, available when the chart is selected, you can customize how the chart looks.

12. When satisfied, save the file with your changes. Do not change the file name or location.



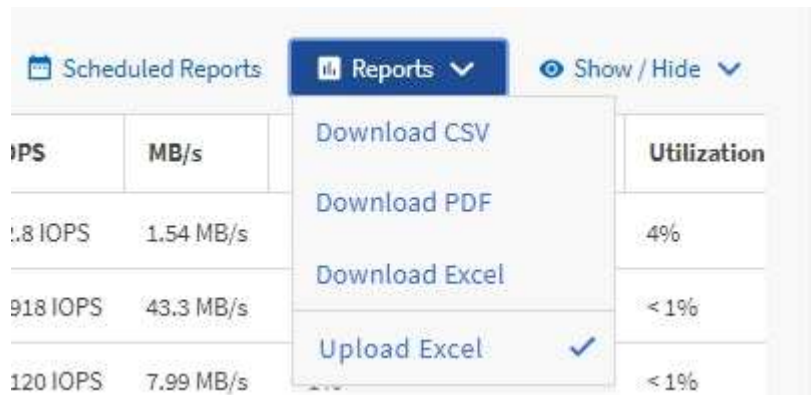
13. In Unified Manager, select **Reports > Upload Excel.**



Make sure you are in the same view where you downloaded the Excel file.

14. Select the Excel file you have modified.
15. Click **Open**.
16. Click **Submit**.

A check mark appears beside the **Reports > Upload Excel** menu item.



- Click **Scheduled Reports**.
- Click **Add Schedule** to add a new row to the **Report Schedules** page so that you can define the schedule characteristics for the new report.



Select the **XLSX** format for the report.

19. Enter a name for the report schedule and complete the other report fields, then click the check mark (✓) at the end of the row.

The report is sent immediately as a test. After that, the report generates and is sent by email to the recipients listed using the specified frequency.

Based on the results shown in the report, you might want to balance the load on your aggregates.

Creating a report to view available volume capacity charts

You can create a report to analyze available volume capacity in an Excel chart.

What you'll need

- You must have the Application Administrator or Storage Administrator role.

Use the following steps to open a Health: All Volumes view, download the view in Excel, create an available capacity chart, upload the customized Excel file, and schedule the final report.

Steps

1. In the left navigation pane, click **Storage > Volumes**.
2. Select **Reports > Download Excel**.



Depending on your browser, you might need to click **OK** to save the file.

3. If needed, click **Enable Editing**.
4. In Excel, open the downloaded file.
5. On the data sheet, select the data that you want to use in the `Volume` and `Available Data %` columns.
6. On the **Insert** menu, select a 3-D piechart.

The chart shows which volumes have the largest available space. The chart appears on the data sheet.



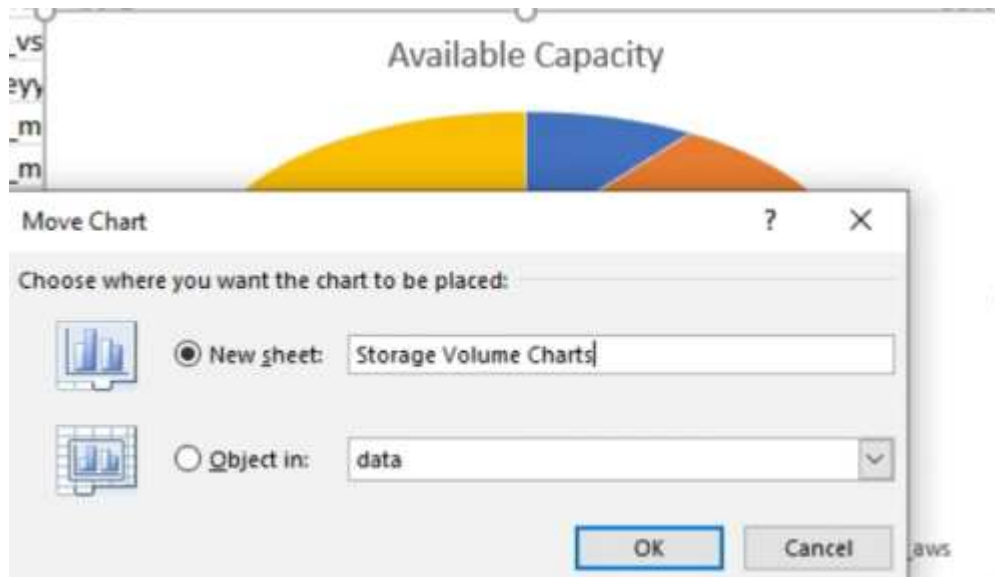
Depending on your network configuration, selecting the entire columns or too many data rows might make your pie chart unreadable. This sample uses the 3-D pie chart, but you can use any chart type. Use the chart that best displays the data you want to capture.

7. Name the chart title **Available Capacity**.
8. Right-click the chart and select **Move Chart**.

9. Select **New sheet** and name the sheet **Storage Volume Charts**.



Make sure the new sheet appears after the info and data sheets.



10. Using the **Design** and **Format** menus, available when the chart is selected, you can customize how the chart looks.

11. When satisfied, save the file with your changes.

12. In Unified Manager, select **Reports > Upload Excel**.



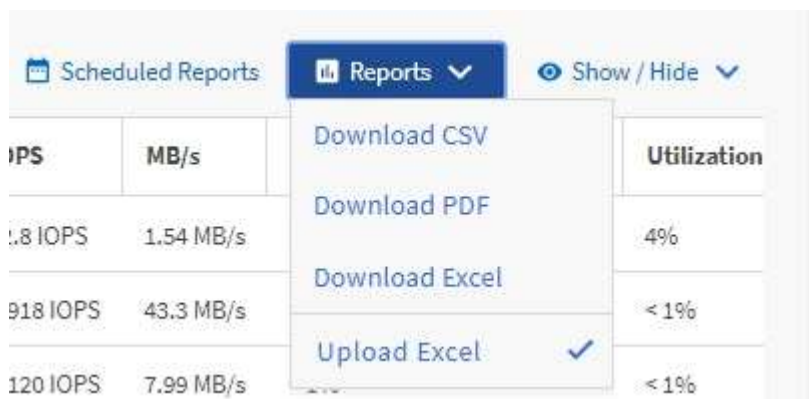
Make sure you are in the same view where you downloaded the Excel file.

13. Select the Excel file you have modified.

14. Click **Open**.

15. Click **Submit**.

A check mark appears beside the **Reports > Upload Excel** menu item.



16. Click **Scheduled Reports**.

17. Click **Add Schedule** to add a new row to the **Report Schedules** page so that you can define the schedule characteristics for the new report.

18. Enter a name for the report schedule and complete the other report fields, then click the check mark (✓) at

the end of the row.



Select the **XLSX** format for the report.

The report is sent immediately as a test. After that, the report generates and is sent by email to the recipients listed using the specified frequency.

Based on the results shown in the report, you might want to balance the load on your volumes.

Creating a report to view aggregates that have the most available IOPS

This report shows which aggregates have the most available IOPS per aggregate type on which you can provision new workloads.

What you'll need

- You must have the Application Administrator or Storage Administrator role.

Use the following steps to open a Health: All Volumes view, download the view in Excel, create an available capacity chart, upload the customized Excel file, and schedule the final report.

Steps

1. In the left navigation pane, click **Storage > Aggregates**.
2. Select **Performance: All Aggregates** from the **View** drop-down.
3. Select **Show/Hide** to show the Available IOPS column and hide the Cluster FQDN, Inactive Data Reporting, and Threshold Policy columns.
4. Drag and drop the Available IOPS and Free Capacity columns next to the Type column.
5. Name and save the custom view Available IOPS Per Aggr.
6. Select **Reports > Download Excel**.



Depending on your browser, you might need to click **OK** to save the file.

7. If needed, click **Enable Editing**.

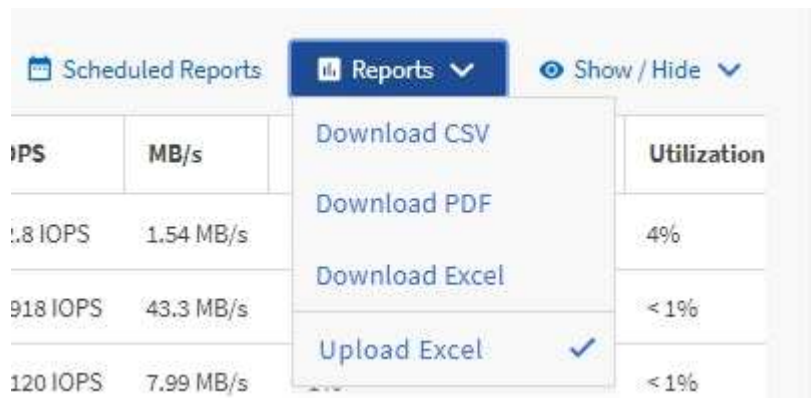
8. In Excel, open the downloaded file.
9. On the data sheet, click the little triangle at the top-left of the sheet to select the entire sheet.
10. On the **Data** ribbon, select **Sort** from the Sort & Filter area.
11. Set the following sort levels:
 - a. Specify the **Sort by** as Available IOPS (IOPS), the **Sort On** as Cell Values, and the **Order** as Largest to Smallest.
 - b. Click **Add Level**.
 - c. Specify the **Sort by** as Type, the **Sort On** as Cell Values, and the **Order** as Z to A.
 - d. Click **Add Level**.
 - e. Specify the **Sort by** as Free Capacity (GB), the **Sort On** as Cell Values, and the **Order** as Largest to Smallest.
 - f. Click **OK**.
12. Save and close the Excel file.
13. In Unified Manager, select **Reports > Upload Excel**.



Make sure you are in the same view where you downloaded the Excel file.

14. Select the Excel file you have modified, in this case performance-aggregates-<date>.xlsx.
15. Click **Open**.
16. Click **Submit**.

A check mark appears beside the **Reports > Upload Excel** menu item.



17. Click **Scheduled Reports**.
18. Click **Add Schedule** to add a new row to the Report Schedules page so that you can define the schedule characteristics for the new report.
19. Enter a name for the report schedule and complete the other report fields, then click the check mark (✓) at the end of the row.



Select the **XLSX** format for the report.

The report is sent immediately as a test. After that, the report generates and is sent by email to the recipients listed using the specified frequency.

Based on the results shown in the report, you might want to provision new workloads on the aggregates that have the greatest available IOPS.

Copyright information

Copyright © 2024 NetApp, Inc. All Rights Reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

Trademark information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.