



NTP Software Storage M&A® User Manual

Abstract

This guide details the method for using NTP Software Storage M&A®. Upon completion of the steps within this document, NTP Software Storage M&A® will successfully report on your enterprise community.

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NTP Software Storage M&A® User Manual

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Introduction

Thank you for your interest in NTP Software Storage M&A®. NTP Software Storage M&A® is a critical component of an overall storage resource management (SRM) architecture and is part of the NTP Software® integrated suite of products. Together these products are designed to help organizations control and report on their current and ever-growing Windows storage infrastructure.

NTP Software Storage M&A® provides a complete view of storage consumption within enterprise organizations. Providing reports on users, files, directories, volumes, and servers across your entire organization, NTP Software Storage M&A® is the premiere enterprise reporting application. By using the NTP Software Storage M&A® drill-down filtering technology, administrators can focus on the most important and growing concerns within their enterprise environments.

NTP Software Storage M&A® reports on enterprise storage resources; for example, some of the built-in reports display data related to the following:

- End user storage consumption
- File type utilization
- Prediction and trend analysis

NTP Software Storage M&A® is different from all other storage-reporting applications in several important ways. In particular, it has the lowest labor cost, which industry analysts agree represents 75% or more of total cost of ownership (TCO). To assist with lowering this cost, NTP Software® provides and supports multiple installation methods for NTP Software Storage M&A®, including Microsoft SMS installations, MSI installation, and Active Directory group policy object installations. NTP Software Storage M&A® supports virtually any installation method your organization customarily uses.

Software Requirements

NTP Software Storage M&A® provides the necessary reporting on your enterprise based on data stored in the NTP Software Storage M&A® database; therefore, a connection between the two is required. IIS 5.0 or higher and Microsoft .NET Framework version 1.1 or higher must be running on the server where NTP Software Storage M&A® is installed.

Hardware Configuration

The required hardware configuration is listed below.

- 333 MHz CPU
- 128MB of RAM
- 20MB of free disk space

Installation

Please refer to the following:

- *NTP Software Storage M&A® Analysis Server Installation Guide* for details about installing NTP Software Storage M&A® Analysis Server.
- *NTP Software Data Collection Agent™ for NAS, NetApp® Edition Installation Guide* for details about installing NTP Software Data Collection Agent™ for NAS, NetApp® Edition.
- *NTP Software Data Collection Agent™ for NAS, IBM® N Series Edition Installation Guide* for details about installing NTP Software Data Collection Agent™ for NAS, IBM® N Series Edition.
- *NTP Software Data Collection Agent™ for NAS, EMC® Edition Installation Guide* for details about installing NTP Software Data Collection Agent™ for NAS, EMC® Edition.
- *NTP Software Data Collection Agent™ Windows® Version Installation Guide* for details about installing NTP Software Data Collection Agent™ Windows® Version.

This Guide in Lines

This guide covers two main topics: configuring NTP Software Data Collection Agent™ and configuring and managing NTP Software Storage M&A®.

NTP SOFTWARE DATA COLLECTION AGENT™ ADMINISTRATION

Thank you for your interest in NTP Software Data Collection Agent™. NTP Software Data Collection Agent™ is a critical component of overall storage resource management (SRM) architecture and is part of the NTP Software® integrated suite of products. Together these products are designed to help organizations control and report on their current and ever-growing storage infrastructure.

The NTP Software Storage M&A® supports the following data collection agents:

- NTP Software Data Collection Agent™ for NAS, IBM® N Series Edition
- NTP Software Data Collection Agent™ for NAS, NetApp® Edition
- NTP Software Data Collection Agent™ for NAS, EMC® Edition
- NTP Software Data Collection Agent™ Windows® Version

Configuring NTP Software Data Collection Agent™

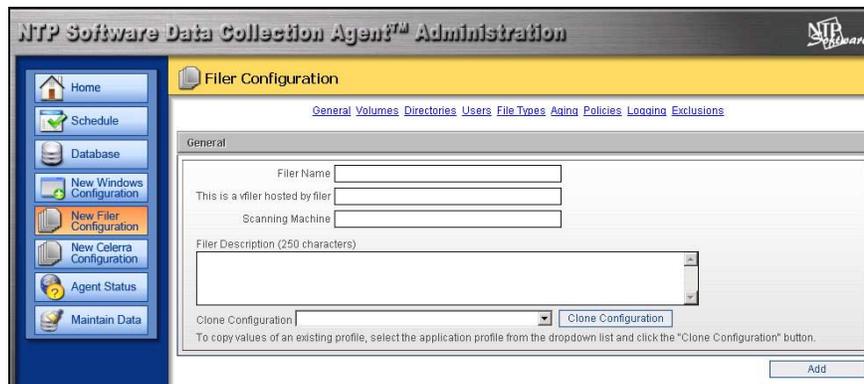
Depending on the platform adapted in your environment, you have to configure one type of NTP Software Data Collection Agent™. In this guide, the NTP Software Data Collection Agent™ for NAS, IBM® N Series Edition is taken as an example for standard agent configuration (showing screen shots), with references to other necessary steps required with other agent configurations. Thus you will be able to configure your agent, whatever its type.

Before using NTP Software Data Collection Agent™, the new configuration settings must be created for each storage unit (Filer, Celerra, etc.) that the agent will scan. Follow these steps to create a new configuration:

1. From the NTP Software Storage M&A® Analysis Server machine, open the NTP Software Data Collection Agent™ Administration by clicking **Start > All Programs > NTP Storage Software M&A® > NTP Software Storage M&A® Data Agent Administration**.

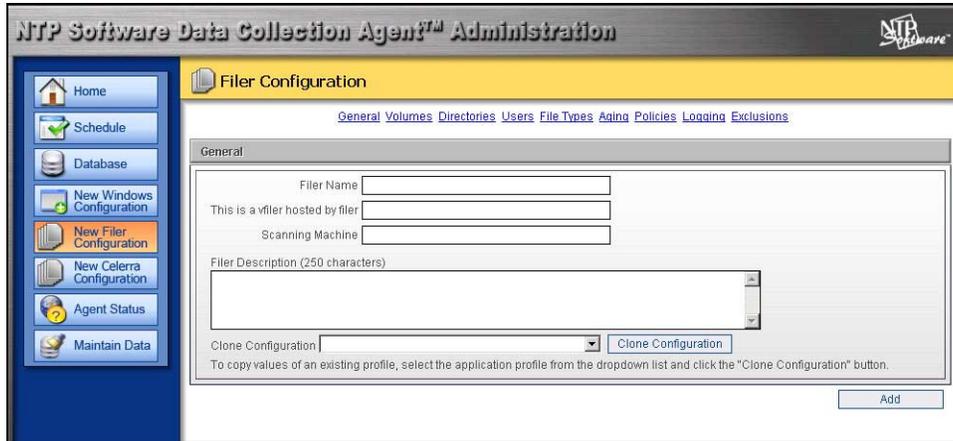


2. In the left column, click **New Filer Configuration/New Celerra Configuration/New Windows Configuration** to enter the configuration area.



3. On the **General** page, enter the information required: filer name/Celerra CIFS server name, host name, scanning machine, and a description (if desired).

NOTE: You have the option to clone an existing configuration if reporting on more than one Filer/Celerra.

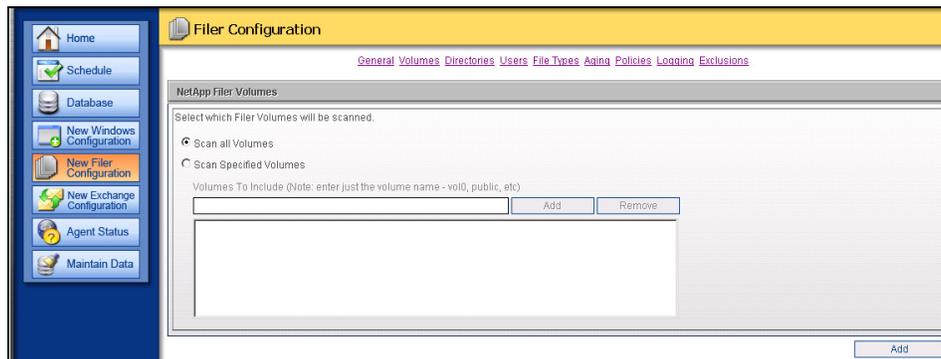


The screenshot shows the 'NTP Software Data Collection Agent™ Administration' window. The 'Filer Configuration' section is active, with the 'General' tab selected. The interface includes a left-hand navigation menu with options like Home, Schedule, Database, and various configuration buttons. The main content area contains the following fields and controls:

- Filer Name:** A text input field.
- This is a vfiler hosted by filer:** A text input field.
- Scanning Machine:** A text input field.
- Filer Description (250 characters):** A large text area for entering a description.
- Clone Configuration:** A dropdown menu and a 'Clone Configuration' button. Below this, a note states: 'To copy values of an existing profile, select the application profile from the dropdown list and click the "Clone Configuration" button.'
- Add:** A button at the bottom right of the configuration area.

4. Click the **Volumes** link to select the resources to include in the data scan.

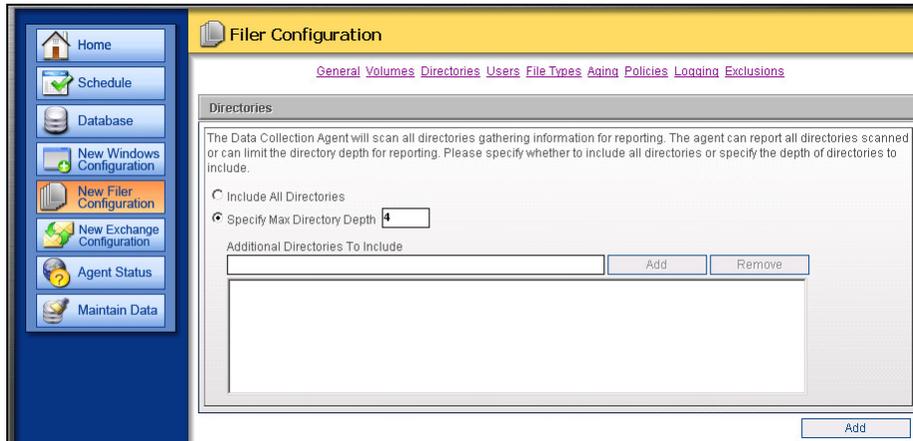
NOTE: You can check the **Scan all Volumes** checkbox to include all the volumes in the scanning operation or check the **Scan Specified Volumes** checkbox to add the volumes that you want to scan.



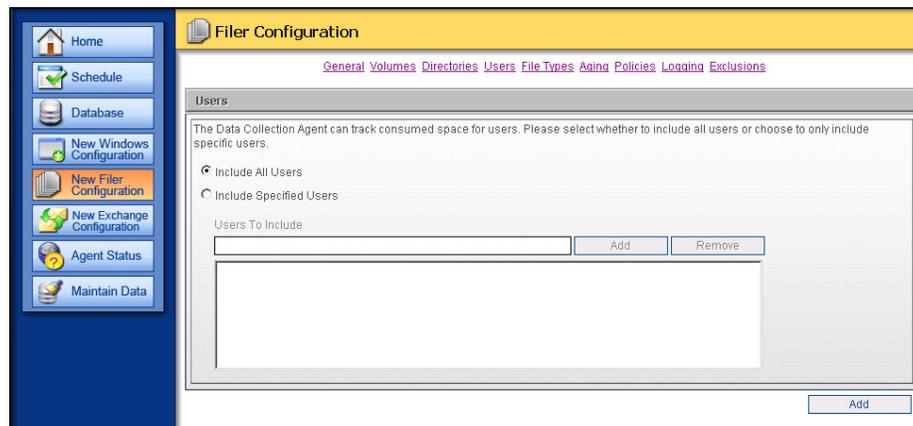
The screenshot shows the 'NTP Software Data Collection Agent™ Administration' window, now with the 'Volumes' tab selected under 'Filer Configuration'. The interface includes the same left-hand navigation menu. The main content area contains the following elements:

- NetApp Filer Volumes:** A section header.
- Select which Filer Volumes will be scanned:** Two radio button options: Scan all Volumes and Scan Specified Volumes.
- Volumes To Include (Note: enter just the volume name - vol0, public, etc):** A text input field with 'Add' and 'Remove' buttons next to it.
- Add:** A button at the bottom right of the configuration area.

5. Click the **Directories** link to set a subdirectory limit for the directories that get reported back to the central database. Either include all directories or specify a depth within which directories will be included. You can also specify additional directories to include.



6. Click the **Users** link to specify users to include in the scan. Check the **Include All Users** checkbox to report file data for all the users in the scan or check the **Include Specified Users** checkbox to report file data for certain users in the scan (use the **Add** and **Remove** buttons to add or remove users to the list).



- Click the **File Types** link to enter extensions to include in the scan. You can also include/exclude nonstandard file extensions as well as temporary file extensions and the duplicate files found in your environment.

File Types

Storage M&A Analysis Server will generate reports based on the following file extensions. Use a comma-separated list to specify multiple file extensions. Example: mp3, avi, bit, doc

Include File Extensions

Storage M&A Analysis Server will generate reports based on the following file extensions. Use a comma-separated list to specify multiple file extensions.

NonStandard File Extensions

Include NonStandard File Extensions entered above
 Exclude NonStandard File Extensions entered above

Temporary File Types

Storage M&A Analysis Server will generate reports based on the following file extensions. Use a comma-separated list to specify multiple file extensions. Example: tmp, temp, zar

Temporary File Extensions

Duplicate Files

Include Duplicate Files

- Click the **Aging** link to set the number of oldest files to include in the report, as well as to determine the last-accessed date or last-modified date for the aged files. To specify a particular date, click the down arrow button; a calendar will appear that enables you to choose a certain date.

Filer Configuration

[General](#) [Volumes](#) [Directories](#) [Users](#) [File Types](#) [Aging](#) [Policies](#) [Logging](#) [Exclusions](#)

Aging

Sets the maximum number of oldest files to store per scan.

Maximum Oldest Files

Enter a date (or select it in the calendar below) Or enter a number and select a value from the drop down list to determine how old a file needs to be for reporting purposes. Use the format MM/DD/YYYY for the Date or 999 for the Days, Months and Years.

Access In the Last Days

Not Accessed Since

August 2008

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

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- Click the **Policies** link to specify whether you want to include your NTP Software QFS® policy information in the NTP Software Storage M&A® reports.

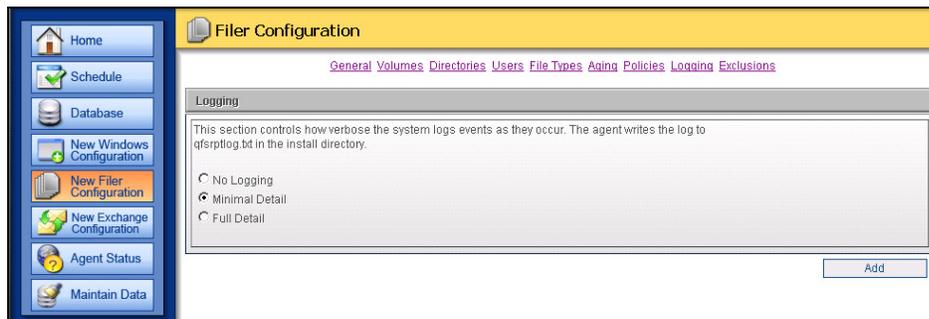
NOTE: NTP Software QFS® must be installed on an NTP Software Data Collection Agent™ for NAS, IBM® N Series Edition server to report policy information for that server.



- Click the **Logging** link to display the logging options. Specify the logging options as follows:

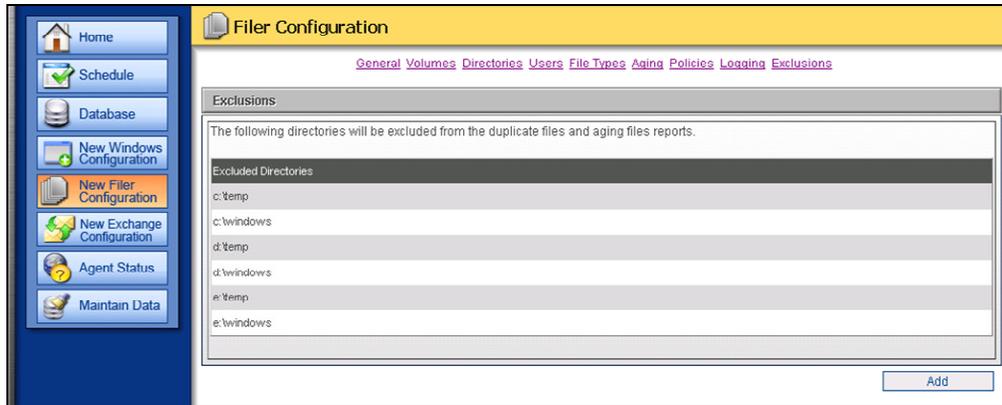
- **No Logging:** Prevents logging events to the log file.
- **Minimal Detail:** Logs a few event details to the log file.
- **Full Detail:** Logs all the details to the log file.

NOTE: Enabling logging will enter events into the DataAgent_<filer name>_YYYY_MM_DD.log file found in the install directory. This feature is very useful for troubleshooting purposes.

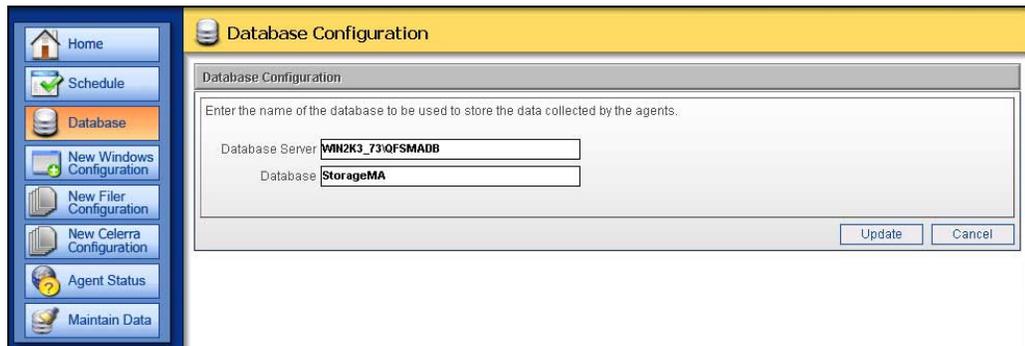


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11. Click the **Exclusions** link to see the default folders that will be ignored when scanning a server. These defaults are areas in which the server and administrator create files. Click **Add** to save your changes when the configuration is complete.

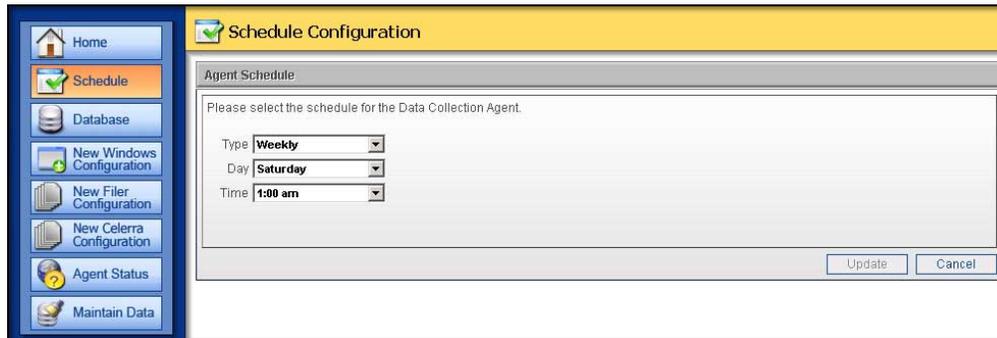


12. To configure the NTP Software Data Collection Agent™ database, click **Database** in the left column to display the **Database Configuration** page, in which you can update the database information. Click **Update** to save your changes.



13. To configure NTP Software Data Collection Agent™ schedules, click **Schedule** in the left column to display the **Schedule Configuration** page, in which you can specify whether you want **Daily**, **Weekly**, or **Monthly** scans; and set the time to run the scan. Click **Update** to save your changes.

NOTE: We strongly recommend running weekly or monthly scans instead of daily scans. Scans use a lot of network resources during the scanning operation.



Viewing NTP Software Storage M&A® Agent Status Utility

NTP Software Storage M&A® is an agent-based application. Each server in your environment has its own NTP Software Data Collection Agent™, which is responsible for scanning, processing, and reporting the individual server's data to the database. Network communication problems can cause an agent to fail to report its complete data set to the database. NTP Software® provides a status utility to help determine whether a communication problem might have occurred, and if so, where it happened.

Viewing NTP Software Storage M&A® Status

1. Click **Start > Programs > NTP Software Storage M&A® > NTP Software Storage M&A® Data Collection Agent™ Administration**. Then click the **Agent Status** button. The **Agent Status Information** screen shows the date and duration of the last successful scan of each server on the network.

NOTE: Press the headers of the view displayed in the figure to sort the data in ascending or descending order.

Server	Agent	Last Run	Run Duration	Status Code
fBirmingham	FileSystem	Aug 04, 2006	2 Hours 0 minutes 0 seconds	Success
fCairo	FileSystem	Aug 04, 2006	2 Hours 0 minutes 0 seconds	Success
fCleveland	FileSystem	Aug 04, 2006	2 Hours 0 minutes 0 seconds	Success
fHouston	FileSystem	Aug 04, 2006	2 Hours 0 minutes 0 seconds	Success
fIbora	FileSystem	Aug 04, 2006	2 Hours 0 minutes 0 seconds	Success
fBoston	FileSystem	Aug 04, 2006	2 Hours 0 minutes 0 seconds	Success
fCanton	FileSystem	Aug 04, 2006	2 Hours 0 minutes 0 seconds	Success
fHouston	FileSystem	Aug 04, 2006	2 Hours 0 minutes 0 seconds	Success
fManchester	FileSystem	Aug 04, 2006	2 Hours 0 minutes 0 seconds	Success
fSeattle	FileSystem	Aug 04, 2006	2 Hours 0 minutes 0 seconds	Success

2. Click the link for the desired server to view all the scans that have run on that server. If a scan did not complete successfully, the status utility shows a breakdown for each agent's status to help determine where the problem occurred.

NOTES:

- Clicking the server link **fCairo** displays a full report about the scans that have run on this server.
- This report includes a description of the phase (whether scanning, data analysis, or data transfer), the time duration of the phase, and the phase status (whether Success or Failed).
- It also shows the number of records, inserted in case of a data transfer operation; or scanned records, in case of a scanning operation.

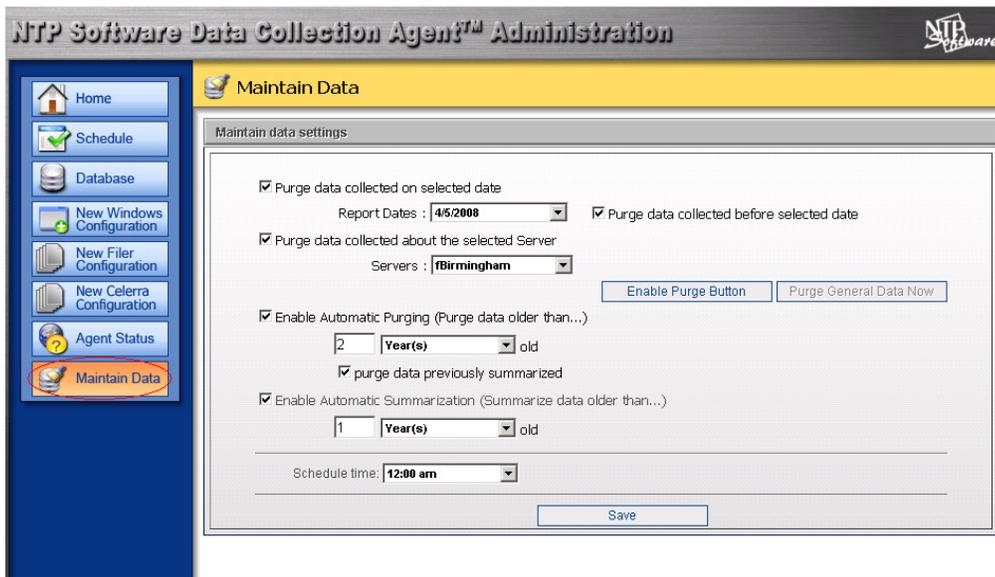
- Use the or buttons to increase or decrease the number of records displayed in the page.
- Use the button to print the results.

Purging NTP Software Storage M&A® Database

By default, NTP Software Storage M&A® performs weekly scans on all your enterprise servers with NTP Software Data Collection Agents™ installed. Because NTP Software® does not impose size limits on the NTP Software Storage M&A® database, the database could grow extremely large over time. We recommend using the database purging utility to routinely clean your NTP Software Storage M&A® database.

NOTE: Purging data from the database also removes the data from report displays.

1. To open the NTP Software Storage M&A® status reports, click **Start > Programs > NTP Software Storage M&A® > NTP Software Storage M&A® Data Collection Agent Administration**.
2. Click the **Maintain Data** button (marked in the following figure).



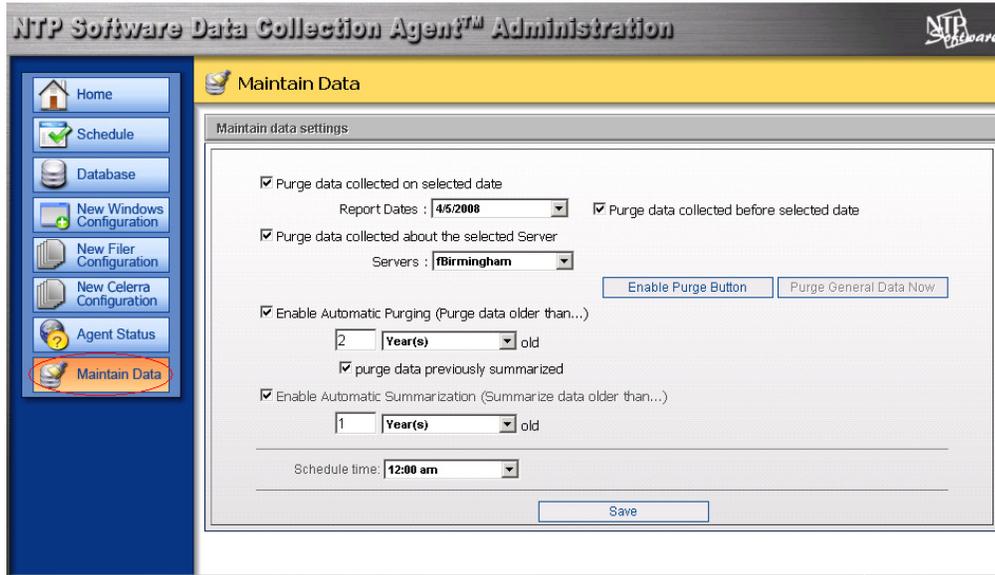
NTP Software Storage M&A® Database Maintenance offers four sets of criteria for purging data from the M&A database:

- a. Purging data collected on a specific date
- b. Purging all data collected about a specific server
- c. Enabling Automatic Purging for a specific time period

- d. Enabling Automatic Summarization to summarize data older than a specific time period

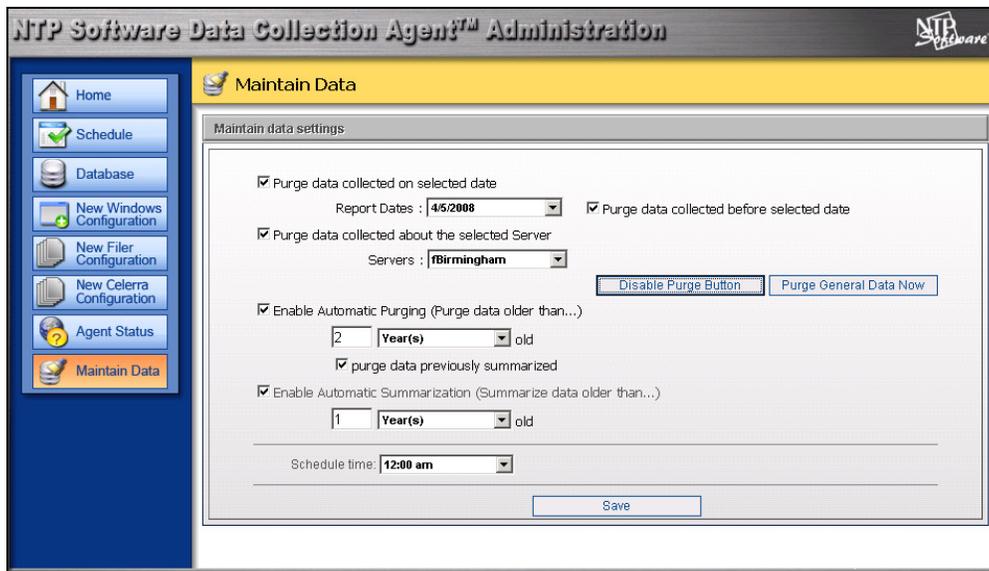
NOTE: The automatic purging and automatic summarization will execute on daily basis at the time specified.

3. Select the purging criteria you want to apply based on the criteria sets specified previously.



4. Press **Enable Purge Button** to enable the **Purge General Data Now** button.

Because of the permanent nature of the data deletion, an administrator is required to enable the function before performing a purge. We also recommend performing a backup before any purge takes place.



5. The **Purge General Data Now** button should now be enabled. Verify your selections and make changes as needed before clicking this button to purge the data from the NTP Software Storage M&A® Database.

NTP Software Storage M&A® Report Utility

To open NTP Software Storage M&A® Analysis Server Reports, click **Start > Programs > NTP Software Storage M&A® > NTP Software Storage M&A® Analysis Server Reports**.

Summary Reports

The Summary Reports section includes the Overview page, Projections, Risk, Health, Action Items, and Watch List reports. The following sections include a detailed description for each report.

Overview

The NTP Software Storage M&A® Analysis Server Overview Reports page provides useful information, including the following:

- **Risk Index Summary**
 - **Current Risk Index and Current Trend**

NTP Software Storage M&A® Risk Index is the measure of the overall risk associated with the current servers. It is measured on a scale from 0 to 10, with 10 indicating the highest risk.

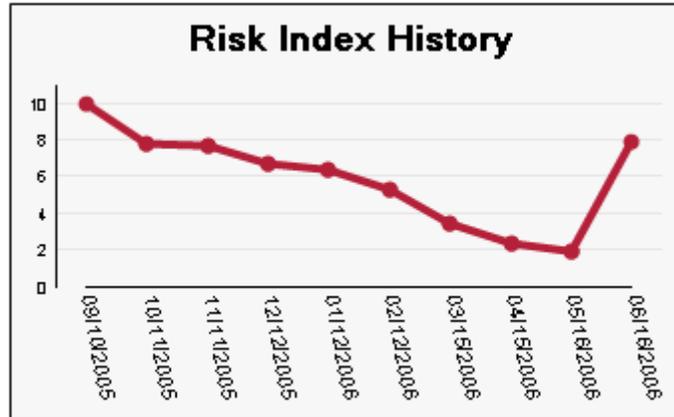
NTP Software M&A® Trend is an indicator of risk index values over time.

- A red arrow means that the risk is increasing over time.
- A yellow arrow means that the risk is not changing.
- A green arrow means that the risk is decreasing over time.



1. Risk Index History

NTP Software Storage M&A® Risk Index History displays the values of the risk index utilizing stored scan data from your environment.



- Health Index Summary

1. Current Health Index and Current Trend



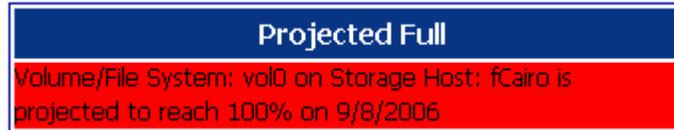
2. Health Index History



- **Projecting Volumes of Critical Storage**

Volumes that are expected to exceed the 100% storage limit are displayed. Detailed information—including the volume name, the server on which this volume exists, and the projection date in which this volume is expected to reach 100%—is displayed.

This feature is very useful to alert administrators of the projected date in which a volume and/or server will exceed its storage limit.



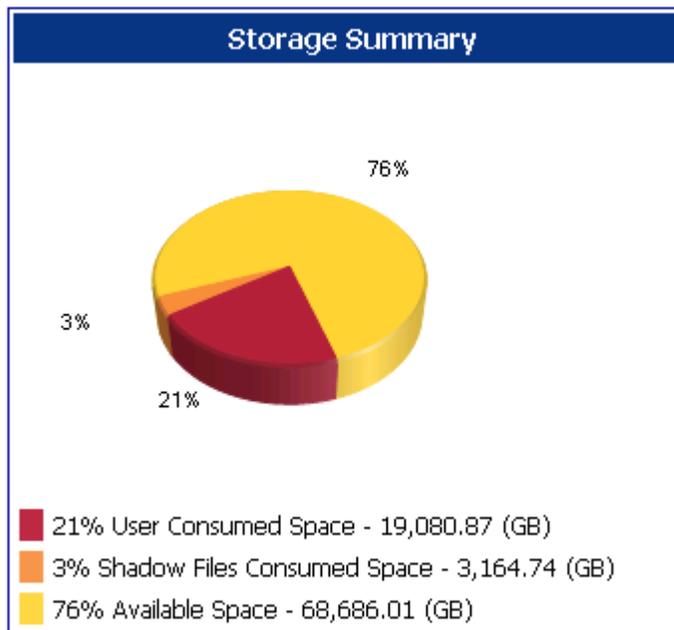
- **Displaying the Network's Total Storage**

The total storage of all the servers within the entire network is displayed in gigabytes.



- **Storage Summary Report**

The Storage Summary Report displays the percentage of the user-consumed space versus the free space within the entire network environment. It also displays the shadow files consumed space.



- **Summary Report**

The Summary Report displays general information about the entire network. This information includes the number of existing users, the user's average storage, the number of duplicate files, the total storage consumed by the duplicate files, the number of aging files, the total storage consumed by the aging files, the total number of temporary files, and the total storage consumed by the temporary files.

Summary Report	
Number of Users:	3
Average Storage per User (MB):	2,103.14
Number of Duplicate Files:	259
Total Storage in Duplicate Files (MB):	13,103.00
Number of Aged Files:	9,626
Total Storage in Aged Files (MB):	367,596.29
Number of Temporary Files:	1,481
Total Storage in Temporary Files (MB):	50,519.00

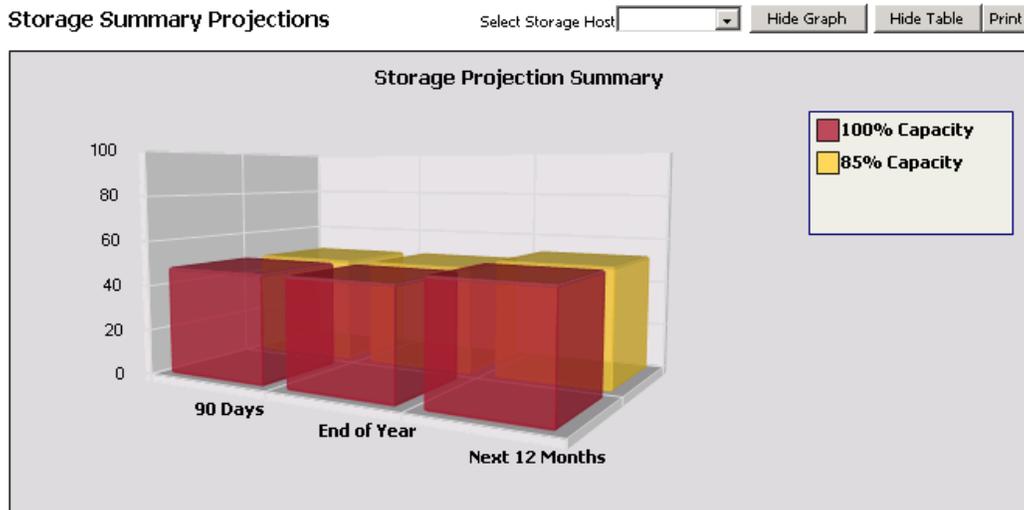
Projections

The **Projections** section displays a report that shows the status of all agent servers within different intervals and for different volume capacities.

As noted previously, this feature is very useful for forecasting storage limit issues.

In the chart, volumes that are expected to reach 100% storage capacity within the next 90 days, by the end of the year, or within the next 12 months are marked in red. Volumes that are expected to reach 85% storage capacity within the next 90 days, by the end of the year, or within the next 12 months are marked in yellow.

Click the **Hide Graph** button to hide the chart.



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Following the graph are tabular forms that show the servers with the volumes that are projected to reach 85% storage capacity and 100% storage capacity within the next 90 days, within the next 12 months, or in the next calendar year.

Each tabular form displays the server name, the volume on the server (if any) that is projected to run out of storage, the volume's capacity (in gigabytes), and the approximate date on which the volume will reach the specified storage percentage.

NOTE: To hide the tables, click the **Hide Table** button.

Reaching 85% within next 90 days				Reaching 100% within next 90 days			
Server	Volume	Capacity (GB)	Approximate Date	Server	Volume	Capacity (GB)	Approximate Date
sSeattle	D	463.82	8/24/2006	fCleveland	vol2	418.91	9/30/2006
fCleveland	vol2	418.91	8/27/2006	fHonolulu	vol2	505.62	10/8/2006
fHonolulu	vol2	505.62	8/27/2006	fBirmingham	vol1	293.97	11/1/2006
sLittleton	E	369.66	9/8/2006	sLittleton	E	369.66	11/1/2006
fBirmingham	vol1	293.97	9/19/2006	fBirmingham	vol2	324.02	11/10/2006
1 2 3 4 5				1 2 3 4			

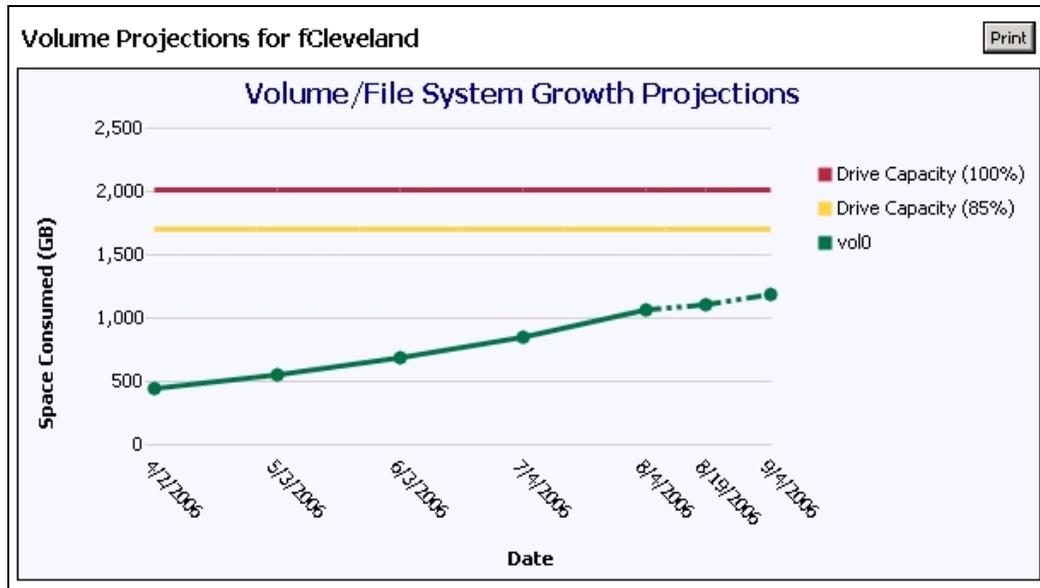
Reaching 85% within next 12 months				Reaching 100% within next 12 months			
Server	Volume	Capacity (GB)	Approximate Date	Server	Volume	Capacity (GB)	Approximate Date
sSeattle	D	463.82	8/24/2006	fCleveland	vol2	418.91	9/30/2006
fCleveland	vol2	418.91	8/27/2006	fHonolulu	vol2	505.62	10/8/2006
fHonolulu	vol2	505.62	8/27/2006	fBirmingham	vol1	293.97	11/1/2006
sLittleton	E	369.66	9/8/2006	sLittleton	E	369.66	11/1/2006
fBirmingham	vol1	293.97	9/19/2006	fBirmingham	vol2	324.02	11/10/2006
1 2 3 4 5 6				1 2 3 4 5 6			

Reaching 85% within next calendar year				Reaching 100% within next calendar year			
Server	Volume	Capacity (GB)	Approximate Date	Server	Volume	Capacity (GB)	Approximate Date
sSeattle	D	463.82	8/24/2006	fCleveland	vol2	418.91	9/30/2006
fCleveland	vol2	418.91	8/27/2006	fHonolulu	vol2	505.62	10/8/2006
fHonolulu	vol2	505.62	8/27/2006	fBirmingham	vol1	293.97	11/1/2006
sLittleton	E	369.66	9/8/2006	sLittleton	E	369.66	11/1/2006
fBirmingham	vol1	293.97	9/19/2006	fBirmingham	vol2	324.02	11/10/2006
1 2 3 4 5 6				1 2 3 4 5			

Clicking any server name link or selecting a server from the Select server drop-down menu displays the Volume Growth Projections chart, the Modify Projection Chart, and other information.

- **Volume Growth Projections Chart**

This chart displays the projected consumed space of a volume based on the usage history and the volume's growth rate.



- **Modify Projection Chart**

Use the criteria provided here to modify the Volume Growth Projections Chart.

From the **Select Storage Host** drop-down menu, select the server name and then the specific volume to display its projected growth. From the **Select Volume/File System** drop-down menu, specify the historical data points, the projection end date to project until this date, and the projection interval that defines the graph range—whether monthly, quarterly, or yearly.

Modify Projection Chart

Please specify the criteria for the volume/file system projection graph.

Select Storage Host

FCleveland ▾

Select Volume/File System

vol0 ▾

Historical Data Points

5 ▾

Select Projection Period

Projection End Date

9/4/2006

Projection Interval

Monthly ▾

The modified Volume Growth Projections report will be displayed.

- **Other Tabular Forms**

More information is displayed, including the date in which the space was consumed, the amount of the consumed space in gigabytes, and whether this is an actual consumed space or a projected consumed space.

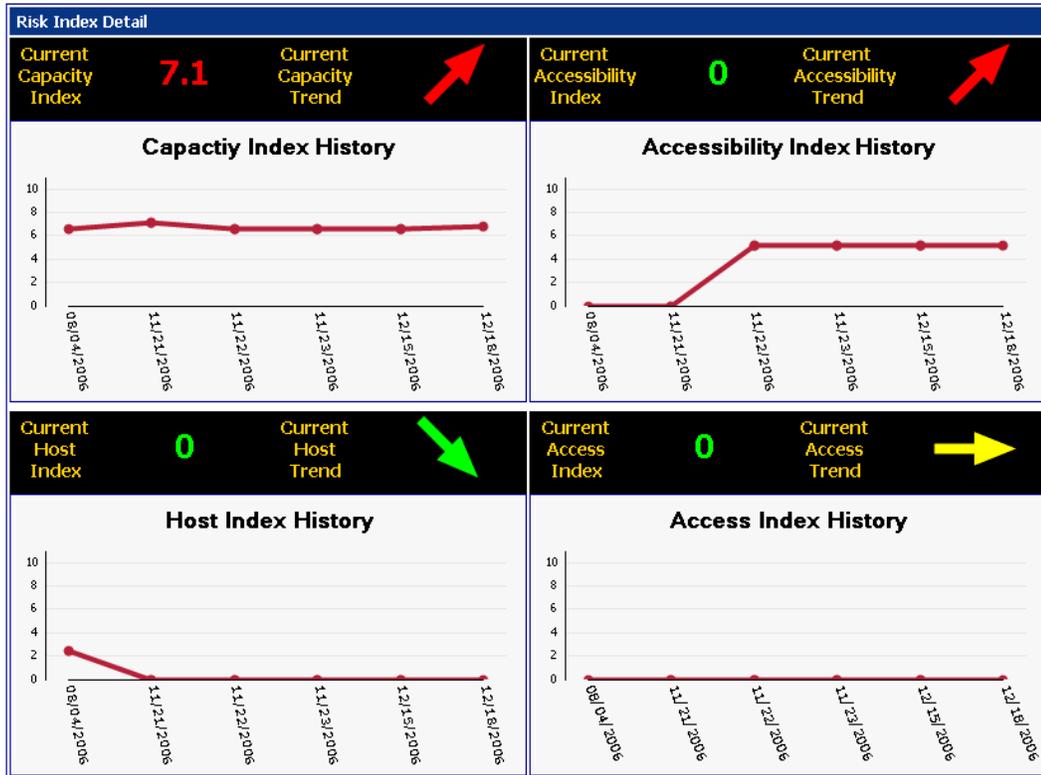
Date	Space Consumed (GB)	Type
2/12/2006	172.38	Actual
3/15/2006	172.77	Actual
4/15/2006	172.87	Actual
5/16/2006	173.58	Actual
6/16/2006	193.59	Actual
6/16/2007	236.6	Projected
6/16/2008	287.66	Projected
6/16/2009	338.58	Projected
7/16/2010	393.68	Projected

Volume	Capacity (GB)	Date Projected to Reach 85 % Capacity	Date Projected to Reach 100 % Capacity
C:\	387.63	4/11/2009 which is 655 day(s) from today	6/2/2010 which is 1072 day(s) from today

Risk

- **Risk Index Detail**

The Risk Index Detail shows a trend analysis in four categories of risk that the agents have collected over time.

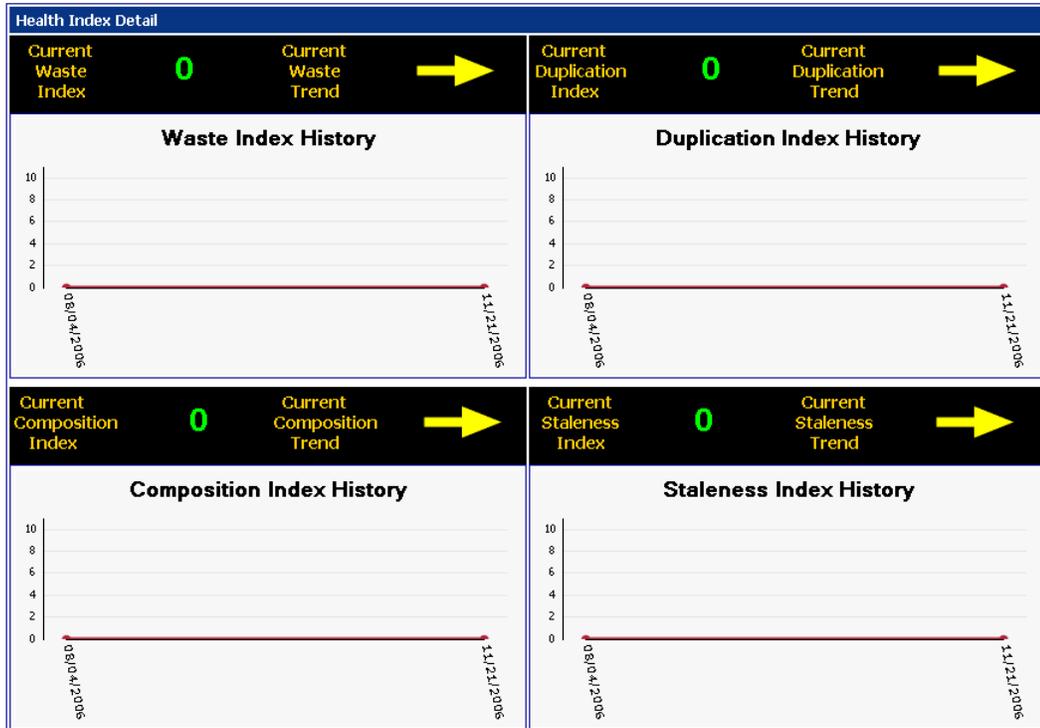


Health

- **Health Index Detail**

The Health Index Detail shows a trend analysis in four categories of health that the agents have collected over time.

NTP Software Storage M&A® User Manual



Action Items

The **Action Items** section shows items that require immediate action. For example, tables show lists of users consuming the most space, volumes projected to reach 100% capacity within the next 90 days, and duplicate files taking up the most space in the environment.

Recommended Actionable Items [Print](#)

Users consuming the most space

Date	Server	Domain	Accounts	Total Space (MB)
8/4/2006	fCairo	NA	Lilika	4,563.28
8/4/2006	sBonn	NA	Freeman	4,560.22
8/4/2006	sCambridge	NA	Eternity	4,553.03
8/4/2006	fHonolulu	NA	Sibley	4,544.70
8/4/2006	sManchester	NA	Fleur	4,541.54

Volumes/File Systems projected to reach 100% capacity within the next 90 days

Storage Host	Volume/File System	Capacity (GB)	Approximate Date
fCairo	vol0	5368.03	9/8/2006
fCleveland	vol1	3386.9	9/20/2006
fBirmingham	vol0	3360.6	10/13/2006
fHonolulu	vol0	1859.48	10/16/2006
fBirmingham	vol1	2950.9	11/23/2006

[1](#) [2](#) [3](#)

These Duplicate Files are taking up the most space in your environment

File Name	File Size (KB)	Instances	Total Space (MB)
pigeonholed.wav	76,310	17	1,266.87
tortonis.mp3	73,669	17	1,223.02
loincloth.ppt	71,122	16	1,111.28
bankrupting.avi	69,796	16	1,090.56
inebriate.zip	68,805	16	1,075.08

Watch List

The **Watch List** section displays the status of each server, showing the percentage of the volume consumed based on the criteria specified.

Specify your custom filter options.

Custom Filtering

Field	Operator	Value
Percent Consumed	>	50

Update Report

Report Title

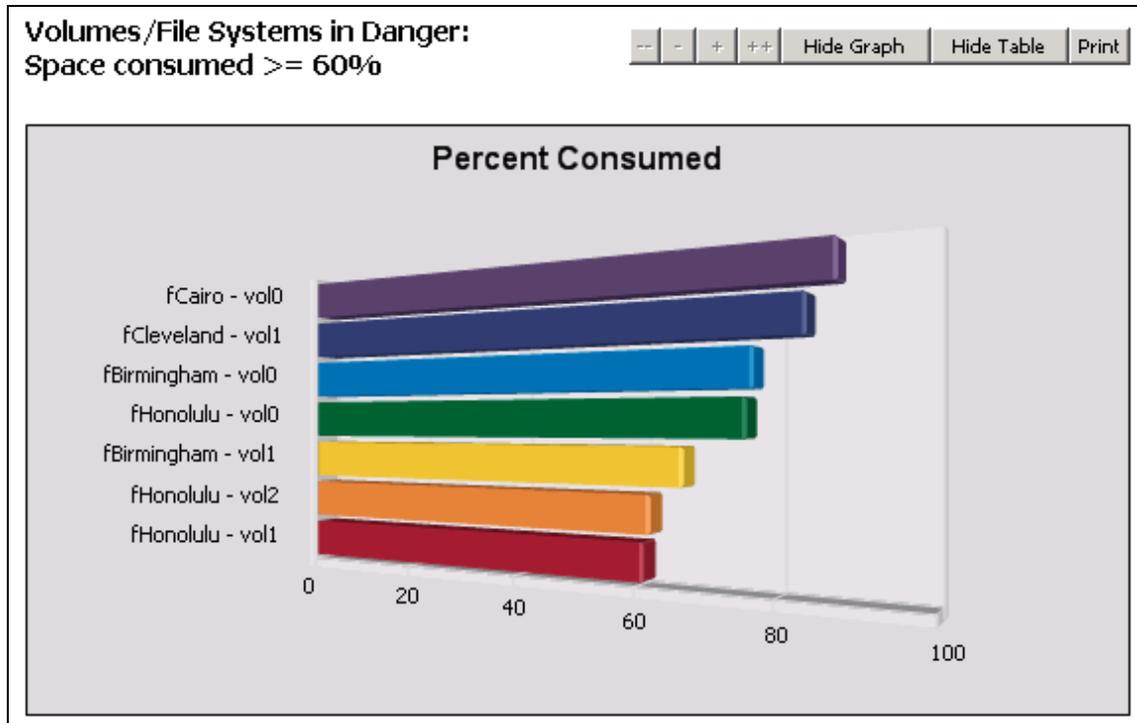
Report Description

Public Report

Save Report

Saved Reports

Load Report



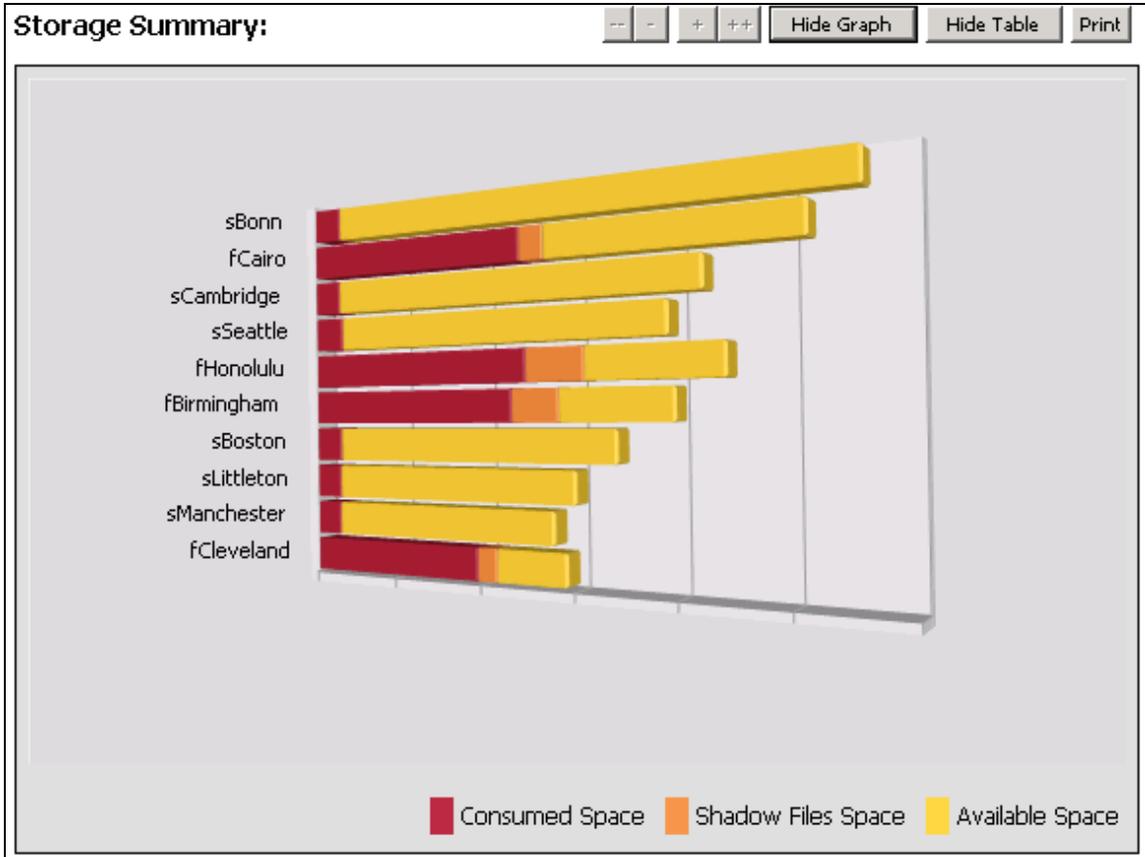
The same information is displayed in a tabular form, as shown below.

Date	Storage Host	Volume/File System	Percent Consumed
8/4/2006	fCairo	vol0	88.0 %
8/4/2006	fCleveland	vol1	84.0 %
8/4/2006	fBirmingham	vol0	77.0 %
8/4/2006	fHonolulu	vol0	76.0 %
8/4/2006	fBirmingham	vol1	67.0 %
8/4/2006	fHonolulu	vol2	62.0 %
8/4/2006	fHonolulu	vol1	61.0 %

Detailed Reports

Storage Hosts

The Storage Hosts section displays a storage summary of all servers within the entire network environment. The chart displays the consumed space versus the available space for each server. The space consumed by the shadow files is displayed as well.



The same information is displayed in a tabular form, as shown below.

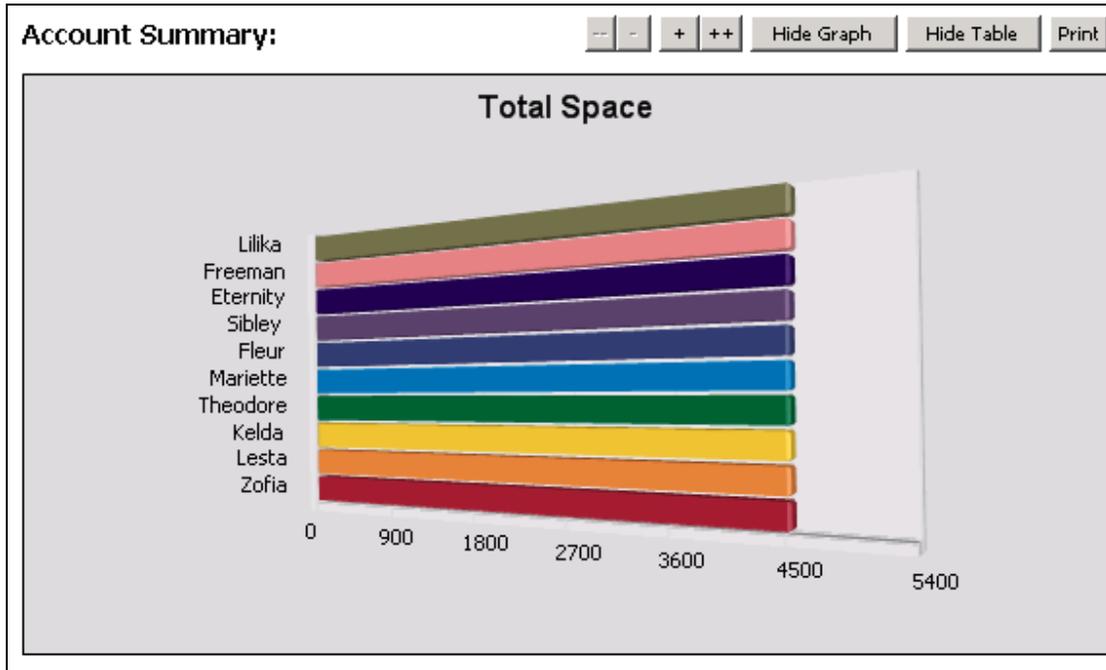
Date	Storage Hosts	Total Space (GB)	Consumed Space (GB)	Shadow Files Consumed Space (GB)	Percent Shadow Files Consumed	Available Space (GB)	Percent Consumed
1/9/2009	sBonn	11,181.56	636.81	0.00	0.00 %	10,544.74	5.70 %
1/9/2009	fCairo	9,782.74	4,891.07	512.89	5.24 %	4,891.67	50.00 %
1/9/2009	sCambridge	8,497.66	614.90	0.00	0.00 %	7,882.76	7.24 %
1/9/2009	sSeattle	7,844.27	679.61	0.00	0.00 %	7,164.66	8.66 %
1/9/2009	fHonolulu	7,682.52	5,005.80	1,220.29	15.88 %	2,676.72	65.16 %
1/9/2009	fBirmingham	6,973.37	4,697.14	997.72	14.31 %	2,276.23	67.36 %
1/9/2009	sBoston	6,851.45	627.24	0.00	0.00 %	6,224.21	9.15 %
1/9/2009	sLittleton	6,012.93	600.28	0.00	0.00 %	5,412.64	9.98 %
1/9/2009	sManchester	5,562.67	587.62	0.00	0.00 %	4,975.05	10.56 %
1/9/2009	fCleveland	5,387.13	3,905.12	433.82	8.05 %	1,482.01	72.49 %

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As previously discussed, use the **Customer Filtering** dialog box to specify certain search criteria.

Users

The **Users** section reports the names of individual user accounts and the total amount of space consumed by each account (in gigabytes), using both chart and tabular formats.



Domain	Accounts	User Space (MB)	Mailbox Space (MB)	Total Space (MB)
NA	Lilika	4,563.28	0.00	4,563.28
NA	Freeman	4,560.22	0.00	4,560.22
NA	Eternity	4,553.03	0.00	4,553.03
NA	Sibley	4,544.70	0.00	4,544.70
NA	Fleur	4,541.54	0.00	4,541.54
NA	Mariette	4,541.01	0.00	4,541.01
NA	Theodore	4,540.10	0.00	4,540.10
NA	Kelda	4,536.32	0.00	4,536.32
NA	Lesta	4,535.44	0.00	4,535.44
NA	Zofia	4,535.43	0.00	4,535.43

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) ...

To filter user accounts by specific criteria, enter the search criteria and click the **Update** button.

Accounts Beginning With

Use the **Custom Filtering** dialog box to specify a customized search.

Quotas

The **Quotas** section lists the policies applied to the directories on the server for each specific user account, as well as the status of the server (active or inactive) in terms of space used.

Date	Storage Host	Policy	Account	Directory	Space Used (MB)	Percent Used	Limit (MB)	Status
8/4/2006	sLittleton	Medium Users	Aaralyn	C:\users\Clare\existential1	1,810.51	60.4 %	3,000.00	Active
8/4/2006	sSeattle	Heavy Users	Acacia	C:\users\Alethea\entomological	4,243.98	84.9 %	5,000.00	Active
8/4/2006	sLittleton	Medium Users	Achilles	C:\users\Platt\straightforward1	1,655.08	55.2 %	3,000.00	Active
8/4/2006	sSeattle	Heavy Users	Adalia	C:\users\Clark\lucidness	3,423.50	68.5 %	5,000.00	Active
8/4/2006	fCairo	Heavy Users	Adela	\vol0\users\Deacon\tenacity2	3,590.53	71.8 %	5,000.00	Active
8/4/2006	sCambridge	Light Users	Adele	C:\users\Andria\ridge1	565.95	55.3 %	1,024.00	Active
8/4/2006	fCairo	Medium Users	Adelie	\vol0\users\Wicky\davit2	1,790.15	59.7 %	3,000.00	Active
8/4/2006	fCairo	Medium Users	Adelle	\vol1\users\Wagner\authoritativeness2	1,961.46	65.4 %	3,000.00	Active
8/4/2006	sBonn	Heavy Users	Adelphos	C:\users\Adrian\cosmogonists	4,500.78	90.0 %	5,000.00	Active
8/4/2006	fHonolulu	Heavy Users	Ademia	\vol0\users\Belinda\corduroy1	4,173.58	83.5 %	5,000.00	Active
8/4/2006	sSeattle	Heavy Users	Adiana	C:\users\Dorie\homeowners	4,320.59	86.4 %	5,000.00	Active
8/4/2006	fCleveland	Heavy Users	Adler	\vol1\users\Balin\nationalized1	3,657.35	73.1 %	5,000.00	Active
8/4/2006	sLittleton	Light Users	Admes	C:\users\Tarasios\adjudges1	548.50	53.6 %	1,024.00	Active
8/4/2006	fBirmingham	Medium Users	Adonica	\vol0\users\Alyn\leftie1	1,777.17	59.2 %	3,000.00	Active
8/4/2006	sBonn	Heavy Users	Adrastos	C:\users\Amaris\pabulum	3,889.10	77.8 %	5,000.00	Active
8/4/2006	sBonn	Medium Users	Adrian	C:\users\Thorbjørn\naturalnesses	1,812.41	60.4 %	3,000.00	Active
8/4/2006	sSeattle	Heavy Users	Adrienne	C:\users\Liadan\arbor	3,906.00	78.1 %	5,000.00	Active
8/4/2006	sBonn	Heavy Users	Adrina	C:\users\Pebbles\yedivides	3,607.04	72.1 %	5,000.00	Active
8/4/2006	fHonolulu	Heavy Users	Ady	\vol0\users\Ohanna\exculpation1	3,453.91	69.1 %	5,000.00	Active
8/4/2006	sManchester	Heavy Users	Aetos	C:\users\Cardea\lyricists	4,278.42	85.6 %	5,000.00	Active

1 2 3 4 5 6 7 8 9 10 ...

Click the link for a policy to display that policy's details, including the server(s) on which the policy is applied, accounts controlled by the policy, and the status of the server.

Quota Policy: Medium Users [Print](#)

Summary		Current Policy	
Max Size (MB)	2,028.51	Limit (MB)	3,000.00
Mean Size (MB)	1,822.87		
Min Size (MB)	1,620.30		

Date	Storage Host	Account	Directory	Space Used (MB)	Percent Used	Status
8/4/2006	sLittleton	Aaralyn	C:\users\Clare\existential1	1,810.51	60.4 %	Active
8/4/2006	sLittleton	Achilles	C:\users\Platt\straightforward1	1,655.08	55.2 %	Active
8/4/2006	fCairo	Adelle	\vol0\users\Wicky\davit2	1,790.15	59.7 %	Active
8/4/2006	fCairo	Adelle	\vol1\users\Wagner\authoritativeness2	1,961.46	65.4 %	Active
8/4/2006	fBirmingham	Adonica	\vol0\users\Alyn\leftie1	1,777.17	59.2 %	Active
8/4/2006	sBonn	Adrian	C:\users\Thorbjørn\naturalnesses	1,812.41	60.4 %	Active
8/4/2006	sManchester	Agatone	C:\users\Name\position	1,646.62	54.9 %	Active
8/4/2006	sBoston	Agostino	C:\users\Sanne\painfulnesses	1,741.49	58.0 %	Active
8/4/2006	fBirmingham	Aileen	\vol0\users\Granville\counterpanes1	1,869.26	62.3 %	Active
8/4/2006	sLittleton	Airlia	C:\users\Gibson\executrices1	1,740.36	58.0 %	Active
8/4/2006	fCairo	Al	\vol0\users\Odessa\hers2	2,005.38	66.8 %	Active
8/4/2006	sBonn	Aland	C:\users\Argus\shrugged	1,986.24	66.2 %	Active
8/4/2006	fCairo	Alavda	\vol0\users\Al\contradictory2	1,842.84	61.4 %	Active
8/4/2006	sSeattle	Albin	C:\users\Zanebono\maw	1,916.19	63.9 %	Active
8/4/2006	fCleveland	Alcander	\vol1\users\Karyme\sedation2	1,864.15	62.1 %	Active

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) ...

To search for a specific policy or for policies starting with a certain character, enter the search criteria in the **Policies Beginning With** text box and click the **Update** button.

Policies Beginning With <input style="width: 80%;" type="text"/>	<input type="button" value="Update"/>
--	---------------------------------------

To search for a specific policy or policies with certain criteria, use the **Custom Filtering** dialog box to specify the search criteria. Press the **Update Report** button to display the updated report based on the specified search criteria.

To save the results to a report, specify the report name in the Report Title field. Also specify a description in the Report Description field, check the Public Report checkbox, and then press the **Save Report** button.

Use the **Load Report** button to load a previously defined report.

Custom Filtering

Field	Operator	Value
Space Used	>	
Space Used	>	
Space Used	>	

Update Report

Report Title

Report Description

Public Report

Save Report

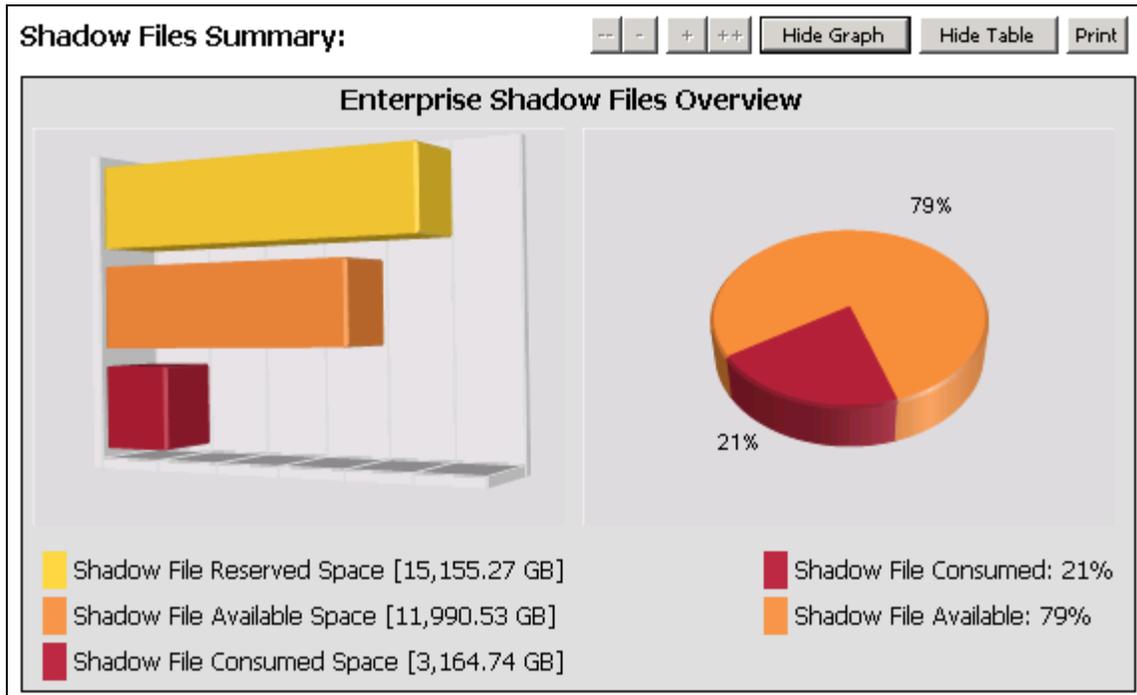
Saved Reports

Load Report

Shadow Files

A shadow file is a point-in-time view of all files on a volume. Shadow Files report on both NetApp Snapshots and EMC Celerra Checkpoints.

This report displays the shadow files reserved space, shadow files available space, and shadow files consumed space.



The same information is displayed in a tabular form, as shown below.

Date	Storage Host	Shadow Files	Shadow Files Consumed Space (GB)	Shadow Files Reserved Space (GB)	Total Space (GB)	Percent Shadow Files Consumed
1/9/2009	fCairo	9	512.89	1,956.54	9,782.74	5.24 %
1/9/2009	fHonolulu	27	1,220.29	1,536.50	7,682.52	15.88 %
1/9/2009	fBirmingham	27	997.72	1,394.67	6,973.37	14.31 %
1/9/2009	fCleveland	18	433.82	1,077.42	5,387.13	8.05 %

Aging

In the **Aging** section, files are displayed according to their age, so reports are sorted by the age of each file. The table displays only files that have been accessed before the specified date (shown in the following figure).

Aging Files Print

Files Last Accessed Before: 9/11/2007

Date	Storage Hosts	File Name	Directory Name	File Size (KB)	Last Accessed
8/4/2006	sLittleton	lemons1.exe	C:\users\Draco\shields1	76,789.00	5/1/2005
8/4/2006	fHonolulu	rickracks1.ppt	\vol0\users\Kort\firmaments1\normative1	76,788.00	4/10/2005
8/4/2006	sBonn	stripteaser.pdf	C:\users\Germain\amphetamines	76,785.00	6/3/2005
8/4/2006	fBirmingham	perihelia1.zip	\vol0\users\Leal\condenser1\goosed1	76,777.00	6/19/2005
8/4/2006	fBirmingham	wiggle1.zip	\vol0\users\Ireland\transit1\submissiveness1	76,764.00	4/19/2005
8/4/2006	sBonn	disencumber.wav	C:\users\Traci\installations	76,756.00	2/6/2005
8/4/2006	fCairo	disinherits2.avi	\vol0\users\Denise\yiffer2	76,745.00	5/19/2005
8/4/2006	fCairo	monoclonal2.rtf	\vol0\users\Rangle\leitmotif2\vegetation2	76,728.00	1/12/2005
8/4/2006	sBonn	razor.zip	C:\users\Chet\resher\exhibits	76,718.00	4/20/2005
8/4/2006	sCambridge	trait.rtf	C:\users\Frey\meander\celerities\molds	76,717.00	6/22/2005
8/4/2006	fCleveland	nested1.jpg	\vol0\users\Wentworth\apprenticing1	76,704.00	4/28/2005
8/4/2006	fCleveland	contain1.exe	\vol0\users\Ryland\sputtering1\napless1	76,698.00	4/27/2005
8/4/2006	fCairo	betakes2.doc	\vol0\users\Domani\consults2\inexpensive2	76,693.00	5/30/2005
8/4/2006	sSeattle	killers.wav	C:\users\Hagop\fornications\yankling	76,689.00	5/23/2005
8/4/2006	fBirmingham	coynesses1.pdf	\vol0\users\Trisa\convicting1\pauperism1	76,683.00	3/9/2005

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) ...

Files Last Accessed Before:

Files Last Modified Before: 9/11/2007

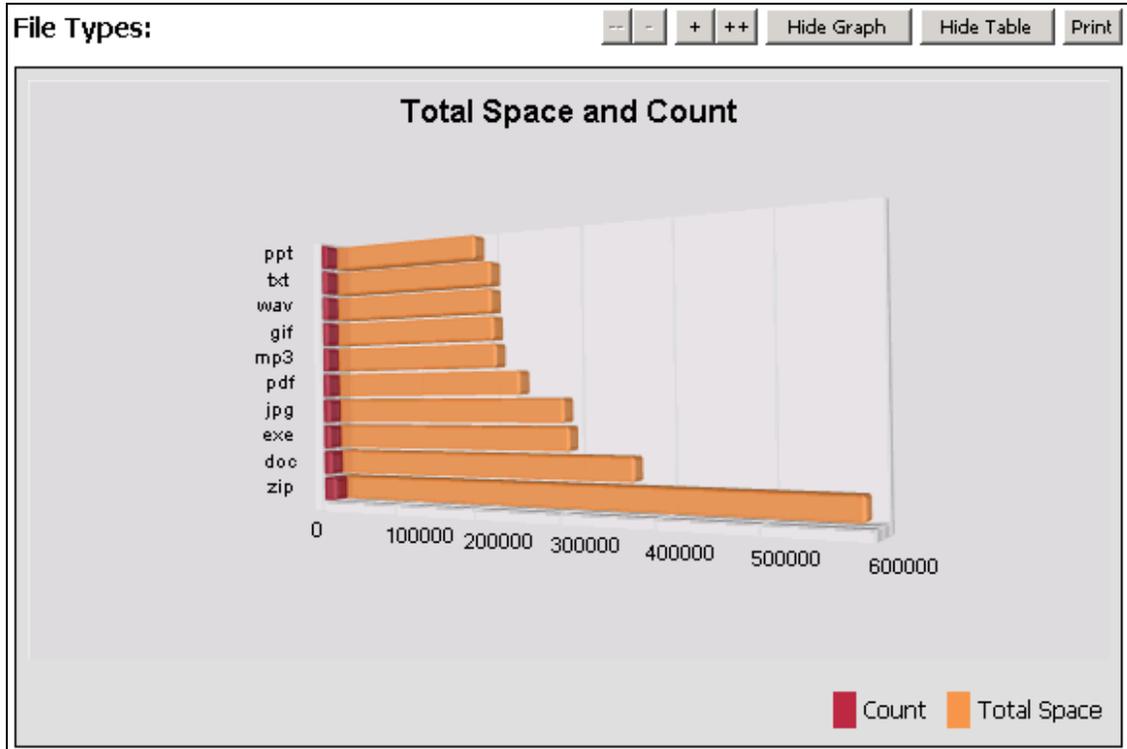
Date	Storage Hosts	File Name	Directory Name	File Size (KB)	Last Modified
8/4/2006	sLittleton	lemons1.exe	C:\users\Draco\shields1	76,789.00	10/23/2004
8/4/2006	fHonolulu	rickracks1.ppt	\vol0\users\Kort\firmaments1\normative1	76,788.00	11/12/2004
8/4/2006	sBonn	stripteaser.pdf	C:\users\Germain\amphetamines	76,785.00	10/30/2004
8/4/2006	fBirmingham	perihelia1.zip	\vol0\users\Leal\condenser1\goosed1	76,777.00	5/1/2005
8/4/2006	fBirmingham	wiggle1.zip	\vol0\users\Ireland\transit1\submissiveness1	76,764.00	3/17/2005
8/4/2006	sBonn	disencumber.wav	C:\users\Traci\installations	76,756.00	1/21/2005
8/4/2006	fCairo	disinherits2.avi	\vol0\users\Denise\yiffer2	76,745.00	3/23/2005
8/4/2006	fCairo	monoclonal2.rtf	\vol0\users\Rangle\leitmotif2\vegetation2	76,728.00	11/14/2004
8/4/2006	sBonn	razor.zip	C:\users\Chet\resher\exhibits	76,718.00	1/16/2005
8/4/2006	sCambridge	trait.rtf	C:\users\Frey\meander\celerities\molds	76,717.00	4/24/2005
8/4/2006	fCleveland	nested1.jpg	\vol0\users\Wentworth\apprenticing1	76,704.00	4/24/2005
8/4/2006	fCleveland	contain1.exe	\vol0\users\Ryland\sputtering1\napless1	76,698.00	2/22/2005
8/4/2006	fCairo	betakes2.doc	\vol0\users\Domani\consults2\inexpensive2	76,693.00	1/29/2005
8/4/2006	sSeattle	killers.wav	C:\users\Hagop\fornications\yankling	76,689.00	4/11/2005
8/4/2006	fBirmingham	coynesses1.pdf	\vol0\users\Trisa\convicting1\pauperism1	76,683.00	10/22/2004

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) ...

Files Last Modified Before:

File Types

The **File Types** section lists each file type, the total number of files of that type, and the total amount of space consumed by that type of file (in megabytes). The information is displayed using a chart and a tabular form.

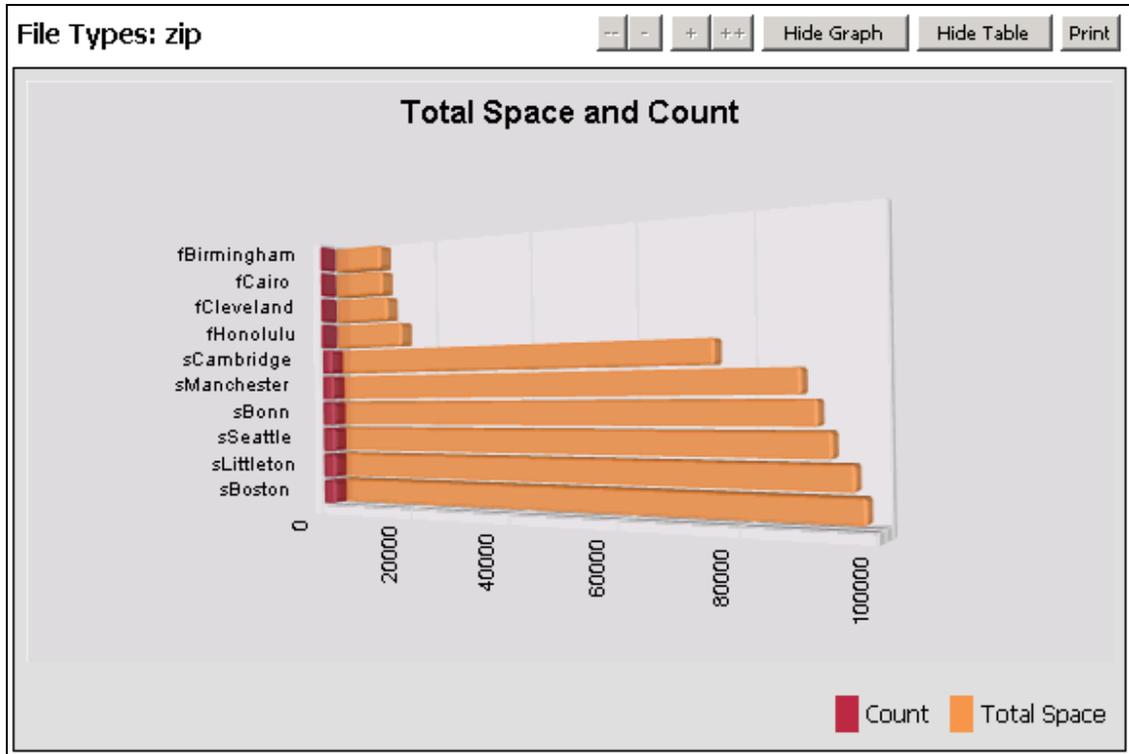


The same information is displayed in a tabular form, as shown below.

File Type	Count	Total Space (MB)
zip	15,259	584,599.98
doc	9,484	365,077.04
exe	7,809	293,985.46
jpg	7,445	288,744.82
pdf	6,303	237,654.72
mp3	5,471	209,227.53
gif	5,444	206,635.13
wav	5,377	204,338.71
txt	5,341	203,912.72
ppt	4,711	184,778.90

1 2 3

By clicking the link for a file type, you can display detailed information about that file type.

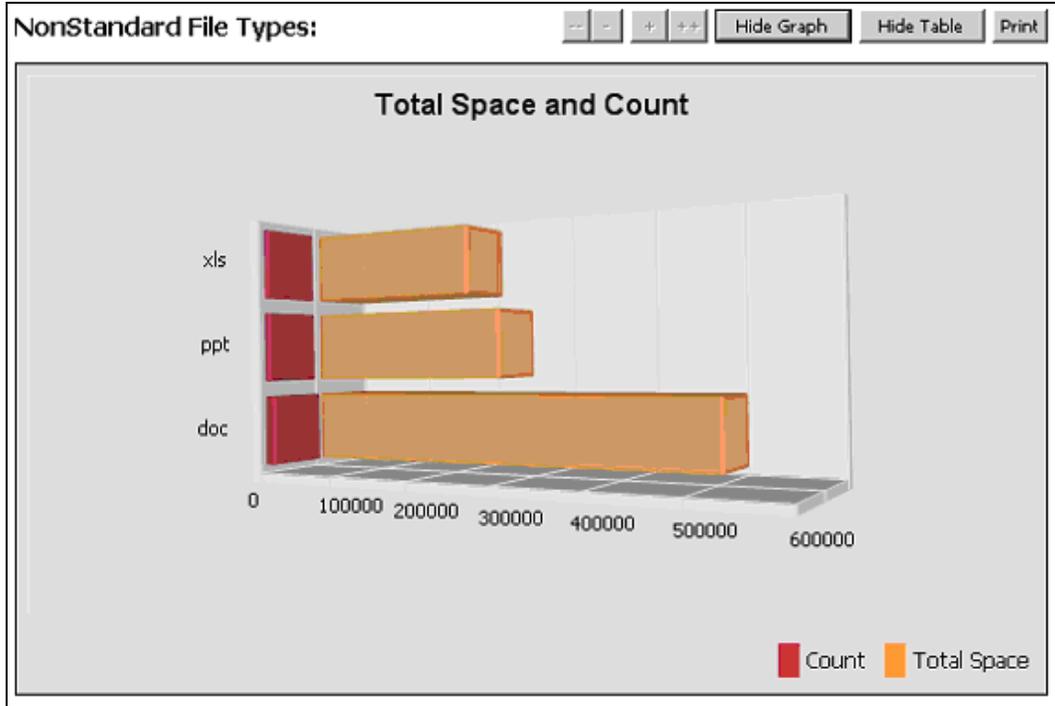


The same information is listed in a tabular form.

Date	Servers	Count	Total Space (MB)
6/16/2006	sBoston	2,444	97,217.61
6/16/2006	sLittleton	2,470	95,644.29
6/16/2006	sSeattle	2,451	92,378.14
6/16/2006	sBonn	2,400	90,337.39
6/16/2006	sManchester	2,274	87,909.27
6/16/2006	sCambridge	1,985	74,422.84
6/16/2006	fHonolulu	378	14,648.11
6/16/2006	fCleveland	307	11,496.83
6/16/2006	fCairo	274	10,427.34
6/16/2006	fBirmingham	276	10,118.17

Nonstandard File Types

This report displays the nonstandard file types and the count of each nonstandard file type.

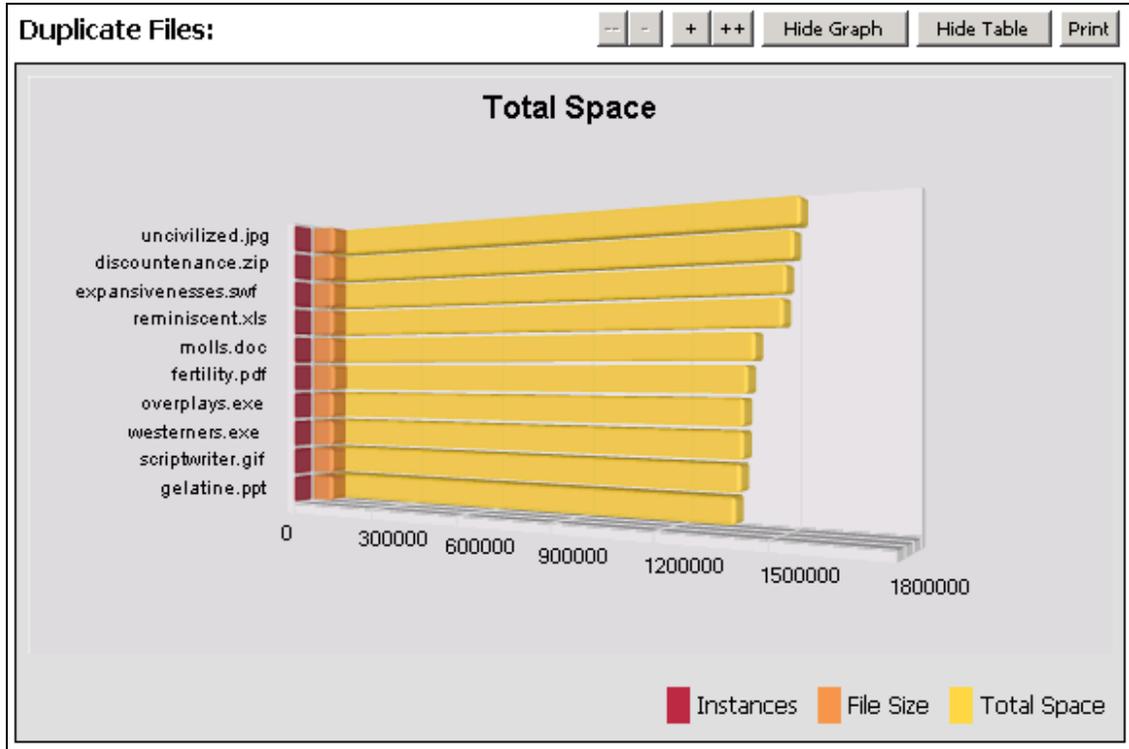


The same information is displayed in a tabular form, as shown below.

NonStandard File Type	Count	Total Space (MB)
doc	13,334	502,312.57
ppt	6,593	251,442.52
xls	5,541	211,711.41

Duplicate Files

The **Duplicate Files** section reports the names of duplicated files, the size of each individual file (in kilobytes), the number of duplicates of the file, and the total amount of space consumed by the duplicates.



File Name	File Size (KB)	Instances	Total Space (KB)
uncivilized.jpg	76,033.00	20	1,520,660.00
discountenance.zip	75,133.00	20	1,502,660.00
expansivenesses.swf	74,187.00	20	1,483,740.00
reminiscent.xls	73,790.00	20	1,475,800.00
molls.doc	73,735.00	19	1,400,965.00
fertility.pdf	76,775.00	18	1,381,950.00
overplays.exe	72,173.00	19	1,371,287.00
westerners.exe	72,124.00	19	1,370,356.00
scriptwriter.gif	71,735.00	19	1,362,965.00
gelatine.ppt	70,923.00	19	1,347,537.00

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) ...

For details about any duplicated file, click its link to display a table showing the location of this file and when it was last accessed.

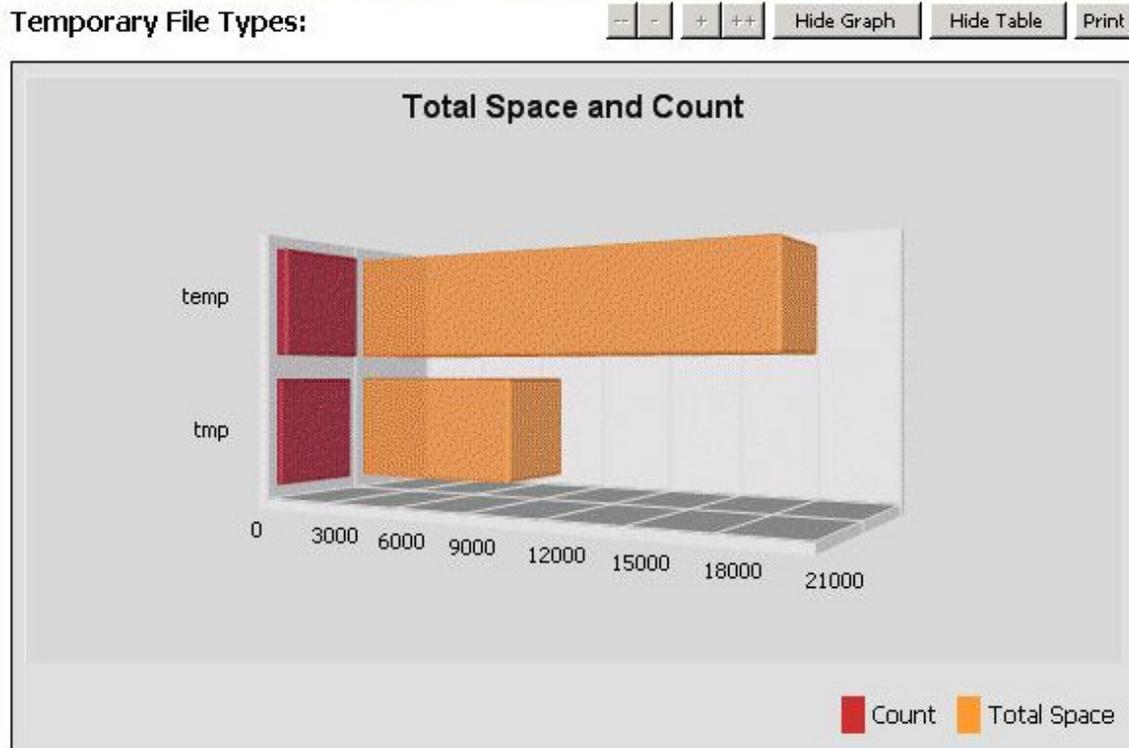
Duplicate File: uncivilized.jpg

Date	Servers	Directory Name	File Size (KB)	Last Accessed
6/16/2006	sBonn	C:\users\Cyd\pschedelic	76,033.00	11/26/2004
6/16/2006	sBonn	C:\users\Guy\sustainable	76,033.00	8/1/2004
6/16/2006	sBonn	C:\users\Laurie\prosaically	76,033.00	9/20/2004
6/16/2006	sBonn	D:\users\Cliff\coarsenesses	76,033.00	10/5/2004
6/16/2006	sBonn	D:\users\Leandra\throatiest	76,033.00	10/14/2004
6/16/2006	sBonn	D:\users\Quorra\videodisc	76,033.00	12/28/2004
6/16/2006	sBonn	D:\users\Rockwell\weighs	76,033.00	9/2/2004
6/16/2006	sBonn	D:\users\Stephanie\cavilers	76,033.00	1/13/2005
6/16/2006	sBonn	D:\users\Thorgeir\oblivious	76,033.00	12/2/2004
6/16/2006	sBonn	D:\users\Tibalt\shah	76,033.00	3/26/2005
6/16/2006	sBonn	D:\users\Toyah\octette	76,033.00	2/4/2005
6/16/2006	sBonn	E:\users\Anneliese\skydiver	76,033.00	8/9/2004
6/16/2006	sBonn	E:\users\Annissa\tux	76,033.00	2/23/2005
6/16/2006	sBonn	E:\users\Arvid\unified	76,033.00	11/12/2004
6/16/2006	sBonn	E:\users\Aurek\attack	76,033.00	10/26/2004
6/16/2006	sBonn	E:\users\Irina\mystiques	76,033.00	11/28/2004
6/16/2006	sBonn	E:\users\Noel\sultanas	76,033.00	2/13/2005
6/16/2006	sBonn	E:\users\Pascale\misleads	76,033.00	8/4/2004
6/16/2006	sBonn	E:\users\Tender\emcee	76,033.00	4/8/2005
6/16/2006	sBonn	E:\users\Thom\alienate	76,033.00	9/24/2004

Use the **Custom Filtering** dialog box to specify a customized search based on your selected criteria.

Temporary File Types

The **Temporary File Types** section lists the temporary files extensions, the total number of files of each extension, and the total amount of space consumed by that extension (in megabytes). The information is displayed using a chart and a tabular form.



The same information is displayed in a tabular form, as shown below.

File Type	Count	Total Space (MB)
temp	519	18,092.78
tmp	189	7,253.15

Manage Reports

The **Manage Reports** section provides the flexibility of editing in or deleting a saved custom report by clicking the Edit or Delete links displayed on the report. These changes can then be either saved or cancelled.

Dynamic Filtering

You can create, save, and load reports as with the Custom Filtering options:

1. In the **Field** column, select the field for which you want to apply criteria.
2. In the **Operator** column, choose the appropriate operator (>, <, =, <>, or **Like**).
3. In the **Value** column, enter the appropriate value.
4. Click **Update Report** to generate the new report.
5. If you want to save the report, specify the **Report Title**, **Report Description**, and whether you want to report to be a **Public Report**. Then click **Save Report**.
6. To open a saved report, select the report name from the list of **Saved Reports** and click **Load Report**.

Custom Filtering

Field	Operator	Value
Percent Consumed	>	50

Update Report

Report Title

Report Description

Public Report

Save Report

Saved Reports

Load Report

About NTP Software®

NTP Software® is the worldwide leader in user-focused, policy-based storage management. We create platform-independent products that enable companies to automatically control the compliance, access, quotas, content, and lifespan of their users' stored files. NTP Software® solutions also gather the analysis and planning data necessary for both short- and long-term decision making, providing everything necessary to actively control all aspects of a user's relationship with local and shared storage.

NTP Software® Professional Services

For further assistance with NTP Software Storage M&A®, contact your NTP Software® representative at 800-226-2755 or 603-622-4400.

NTP Software® offers end-to-end consulting and training services to assist in the deployment and configuration of your storage management solution. Our Professional Services staff includes certified instructors for Microsoft and NTP Software® systems as well as other technologies.

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