

# NTP Software VFM™ Administration Web Site for EMC<sup>®</sup> Atmos™

**User Manual** 

Revision 1.1 - July 2015



This guide details the method for using NTP Software VFM<sup>M</sup> Administration Web Site, from an administrator's perspective. Upon completion of the steps within this document, NTP Software VFM<sup>M</sup> can be used to manage your enterprise community.

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# **Executive Summary**

Thank you for your interest in NTP Software VFM<sup>™</sup>. The latest addition to the NTP Software<sup>®</sup> product portfolio, NTP Software VFM enables employees to tier files; users can select from a predefined set of criteria such as file size, age of last access, or other criteria (Right-Click Data Movement<sup>™</sup>), and organizations can also establish policies that automatically tier files as users reach their storage limits (Event-Driven Data Movement<sup>™</sup>). Both methods enable companies to control storage and operating costs and to expedite backups.

NTP Software VFM makes it much easier for customers to control costs and consolidate data so that it can be searched and leveraged as needed. NTP Software continues its innovation in file-based storage management with the ultimate objective of helping customers reduce storage capital and operating costs.

#### **System Overview**

Your goal is to categorize your data, properly manage it, and move the right data to the most appropriate storage tier to reduce costs, address compliance issues, and perform electronic discovery. However, most archival solutions require expensive, repeated scans of the entire file system. Even worse, large, infrequently used files can reside in your primary storage for months! NTP Software VFM allows for flexibility in your approach to data migration with automated policy-driven movement, manual user-driven movement, or a combination of both. You decide what is best for your organization. NTP Software VFM redefines the economics of data movement by being event- and policy- driven in real time, rather than requiring repeated scans of the entire file system, thus greatly helping to reduce storage-related costs.

#### **Browser Settings**

You need to have the "Allow Active Scripting" under

**Properties>Security>LocalIntranet>CustomSecurity** enabled. This may require you to add the web admin's server to your local intranet sites. If this option is disabled then the admin site's left-hand main menu will not be able to expand.

# NTP Software VFM Administration Site Configuration

#### **Configuring Mail Settings**

NTP Software VFM can send out notifications to end users when their requests have been successfully completed. If you want the NTP Software VFM web application to send email notifications and alerts, then you need to provide the SMTP settings here.

To configure the mail settings, perform the following steps:

- 1. Under Notification Configuration in the left-hand main menu, click Mail Settings. The SMTP Server Settings section is displayed.
- 2. Add in the SMTP server name, SMTP domain, and sender's address. Enter the SMTP sender's password only if the SMTP server uses secure authentication.

SMTP Server Settings		
NTP Software Precision Tiering <sup>TM</sup> will send email notifications based on the configuration specified on the Notification Settings page.		
SMTP Server		
SMTP Domain		
SMTP Port 25		
SMTP Server Requires SSL		
Sender's Address		
Sender's Logon Name and Password are optional. Use them when the sender's mailbox requires credentials		
Logon Name		
E Set/Change Password		
Sender's Password		
Confirm Password		

3. In the **Address Resolution** section, select the option to append the SMTP domain, use the Active Directory connector, or use the LDAP connector.

Address Resolution				
NTP Software Precision Tiering™ can resolve user email addr	sses in one of three ways. Please choose the method that NTP Software Precision Tiering™ will use.			
Append SMTP Domain				
C Use Active Directory Connector				
C Use LDAP Connector				
Primary Host	Port 389			
Secondary Host	Port 389			
LDAP Mail Name				
LDAP Filter Name				

The table below will help you configure the mail settings:

Field	Description
Append SMTP Domain	The user's email address will be determined by concatenating the user's login account name with the name of the SMTP DNS Domain specified above in the SMTP Server Settings.
Use Active Directory	The user's email address will be determined by looking up the user's account in active directory and extracting their primary email address.
Use LDAP	The user's email address will be determined by looking up the user in another LDAP database other than active directory. A search will be done based on the values returned by the <i>LDAP Filter Name</i> attribute against the user's account. If a match is found, then the user's email address will be extracted from the value of <i>LDAP Mail Name</i> attribute.
Primary Host	This is the name or IP address of your active directory or LDAP server that will be used first for searching.
Primary Port	This is the LDAP port number, usually 389.
Secondary Host	This is the name or IP address of your active directory or LDAP server that will be used second for searching. This is optional.
Secondary Port	This is the LDAP port number, usually 389.
LDAP Mail Name	Refer to <i>Use LDAP</i> . This is the name of the attribute used to store user email addresses, for example, mail.
LDAP Filter Name	Refer to <i>Use LDAP</i> . This is the name of the attribute used to store user names, for example, uid.

# NOTES: If you want the NTP Software VFM web app to send email notifications back to the users who sent a tier or recall request, then you must provide a mechanism for the web app to determine the user's email address. The Primary Host and Port are required for the "Use Active Directory" or "Use LDAP Connector" options. The Secondary Host and Port are optional for the "Use Active Directory" or "Use LDAP Connector" options. If the user's email address was not found using the primary server, then the secondary server will be searched. The LDAP Mail Name and Filter Name are required for the "Use LDAP Connector" option.

4. In the Mail format section, select either HTML or Plain Text mail format.

Mail Format
NTP Software Precision Tiering TM can send mail using HTML or plain text. Please choose the format that NTP Software Precision Tiering TM will use.
C HTML C Plain Text

OK Apply Cancel

# **Configuring User Notifications**

User notifications are emails sent to the user making the data movement request. NTP Software VFM can email an acknowledgment to users to notify them that their request has been successfully received. It also emails the results of the request to the user and provides the option to email the results to other recipients.

To configure the user notifications, perform the following steps:

1. Under Notification Configuration in the left-hand main menu, click Notification Settings. The User Notifications section is displayed.

User Notifications				
NTP Software Precision Tiering <sup>TM</sup> can send notifications to the user who submitted a request. Please select the type of notifications to send.				
E-mail request acknowledgement to user.				
E-mail request results to user.				
E-mail results to other recipients (full e-mail address):				
Add Remove				

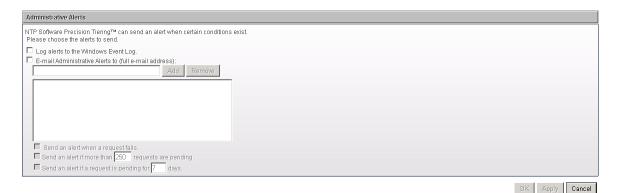
- 2. Select the type of notifications you want to send and then specify to whom you want to send the notification(s).
- 3. To send notifications to other recipients, you need to add a username or a distribution list that exists within Active Directory so that other recipients can receive the data movement results.
- 4. Click **Apply** and then click **OK** to finish.

## **Configuring Administrative Alerts**

The NTP Software VFM web app can send email notifications to a list of recipients, such as administrators, whenever one or more alerts are generated. Anentry to the application event log can also be created. Administrative Alerts assist the administrator with troubleshooting data movement requests. Alerts are based on events that are triggered when a request fails or when a request is pending for a period of time. Alerts can be emailed to a list of those people by specifying the users or a distribution list.

To configure the administrative alerts, perform the following steps:

1. Under Notification Configuration in the left-hand main menu, click Notification Settings. The Administrative Alerts section is displayed.



2. Select the type of alert you want to send.

- 3. Select one or more options determining when you want to have an alert sent.
- 4. Click **Apply** and then click **OK** to finish.

# **Configuring Database Server Settings**

This section shows the database settings that will store all configuration information.

The database settings were provided when NTP Software VFM was installed. If you change the name of the database server or the name of the database here, then you must also do the same within SQL server.

The database credentials were created automatically when NTP Software VFM was installed. If you change the name or password of the SQL account here, then you must also do the same within SQL server.

**NOTE**: The password will be encrypted for security purposes.

To configure NTP Software VFM database settings, perform the following steps:

- 1. Under Database Configuration in the left-hand main menu, click Database Config Settings. The Configuration Database Settings dialog is displayed.
- 2. On the **Configuration Database Server Settings** section, enter the name of the server and the name of the database.

Configuration Database Server Settings Please specify the database that will contain the NTP Software Precision Tiering™ configuration settings Database Server citestbox Database Name NTPSoftwarePrecisionTiering

**NOTE:** Please refer to the *Database Appendix*. The appendix has details on moving the database to another server if you choose to change the name of the database server.

## **Configuring Database Security Settings**

To configure database security settings, perform the following steps:

- 1. Under Database Configuration in the left-hand main menu, click Database Config Settings. The Configuration Database Security Settings section is displayed.
- 2. The Configuration Database Security Settings section specifies how the website establishes a connection with SQL Server. The website can use either Windows-integrated security or a SQL Server account. If a SQL Server account is chosen, the account name and password need to be specified. If Windows security is chosen then the ODDMAdmin pool identity configured in IIS will be used to access SQL.

Configuration Database Security Settings		
Please specify the type of security to be used by NTP Software Precision Tiering TM to connect to the configuration database above.		
C Use Windows Security		
© Use SQL Security		
SQLAccount Name oddm_web_svc		
EstChange Password		
Password		
Confirm Password		

OK Apply Cancel

3. Click the **Apply** button and then click **OK** to finish.

**NOTE**: If the Set/Change Password option is not checked, the password that is stored in the database is not changed.

#### **Configuring Stores Database Server Settings**

This section shows the configuration of the database that will store the objects that have been tiered.

The database settings were provided when NTP Software VFM was installed. If you change the name of the database server or the name of the database here, then you must also do the same within SQL server.

The database credentials were created automatically when NTP Software VFM was installed. If you change the name or password of the SQL account here, then you must also do the same within SQL server.

To configure stores database settings, perform the following steps:

- 1. Under Database Configuration in the left-hand main menu, click Database Stores Settings. The Stores Database Settings dialog is displayed.
- 2. On the **Stores Database Server Settings** section, enter the name of the server and the name of the database.

Stores Database Server Settings Please specify the database that will contain the NTP Software Precision Tiering™ secondary store objects Database Server Citesthox Database Name NTPSoftwarePrecisionTieringStores

**NOTE:** Please refer to the *Database Appendix*. The appendix has details on moving the database to another server if you choose to change the name of the database server.

#### **Configuring Stores Database Security Settings**

To configure stores database security settings, perform the following steps:

- 1. Under Database Configuration in the left-hand main menu, click Database Stores Settings. The Stores Database Security Settings section is displayed.
- Specify the type of security to be used to connect to the stores database. The website can use either Windows-integrated security or a SQL Server account. If a SQL Server account is chosen, the account name and password need to be specified. If Windows security is chosen then the ODDMAdmin pool identity configured in ISS will be used to access SQL.

Stores Database Security Settings			
Please specify the type of security to be used by NTP Software Precision Tiering™ to connect to the stores database above.			
C Use Windows Security			
C Use Windows Security © Use SQL Security			
SQL Account Name oddm_web_svc			
E Set/Change Password			
Password			
Confirm Password			

OK Apply Cancel

3. Click the **Apply** button and then click **OK** to finish.

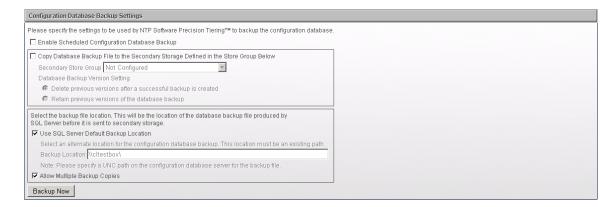
**NOTE**: If the Set/Change Password option is not checked, the password that is stored in the database is not changed.

#### **Configuring Database Backup**

To configure database Backup settings, perform the following steps:

**Note:** A task service is required to be installed on the same server as the database server.

- 1. Under Database Configuration in the left-hand main menu, click Database Backup.
- The Database Backup Information section displays information on configuration database and stores database.
- 3. In the **Configuration Database Backup Settings** section, specify the settings to be used by NTP Software VFM to backup the configuration database.



4. In the **Stores Database Backup Settings** section, specify the settings to be used by NTP Software VFM to backup the configuration database.

Stores Database Backup Settings	
Please specify the settlings to be used by NTP Software Precision Tiering™ to backup the stores database. The stores database size may become large, accordingly the length of time to create the backup and the amount of storage consumed by the backup will vary with the size of the database.	
Enable Scheduled Stores Database Backup	
Copy Database Backup File to the Secondary Storage Defined in the Store Group Below	
Secondary Store Group Not Configured	
Database Backup Version Setting	
Delete previous versions after a successful backup is created	
Retain previous versions of the database backup	
Select the backup file location. This will be the location of the database backup file produced by SQL Server before it is sent to secondary storage.	
🔽 Use SQL Server Default Backup Location	
Select an alternate location for the stores database backup. This location must be an existing path.	
Backup Location \\cltestbox\	
Note: Please specify a UNC path on the stores database server for the backup file.	
🗹 Allow Multiple Backup Copies	
Backup Now	_

#### NOTES:

- 1. When the *Copy Database Backup File to the Secondary Storage Defined in the Store Group* option is checked, the database will first be backed up to the *Backup Location* on the Windows server; therefore a backup location must be selected. The database will then be tiered to the secondary stores defined in the storage group. After a successful tier, the previous databases in each of the secondary stores will be removed if the *Delete previous versions* is selected otherwise multiple backup copies will be kept on each of the secondary stores.
- 2. Database backups can be very large in size, which should be taken into consideration when choosing the correct options for your environment.
- 3. When Allow Multiple Backup Copies is checked for the Backup Location then multiple copies of the database will be kept in that location. NTP Software VFM does not maintain these copies so it is up to the administrator to delete the copies which are no longer wanted.
- In the Database Backup Schedule section, specify the date to be used by Software VFM to back up the configuration and stores databases if enabled in the above settings.

Database Backup Schedule		
Please specify the schedule to be used by NTP Software Precision Tierring <sup>TM</sup> to backup the configuration and stores databases if enabled in the above settings.		
Frequency	Monthly	3
Day	31	
Time	1:00 am	

#### **Recovering Database**

- 1. Under Database Configuration in the left-hand main menu, click Database Recovery.
- 2. The **Database Recovery** section displays information on the configuration database and stores database.
- 3. To recover a database that has been tiered to a secondary store, perform the following steps:

#### NOTE:

A task service is required to be installed on the same server as the database server.

- a. Supply the UNC path to recover the database backup files to.
- b. Press the appropriate *Recover* button for the database you want to recover.
- c. Use SQL Server Management Studio to manually restore the database, from the UNC path, after it has been recovered from the secondary store.
- 4. To recover a database that has been backed up to the *Backup Location* defined in *Database Backup* page, perform the following step:

Simply use SQL Server Management Studio to manually restore the database from the Backup Location.



# **Configuring Stub and Schedule Settings**

The stub and schedule settings allow you to control how files will be stubbed after being tiered as well as the times allotted for tiering.

To configure Stub and Schedule settings, perform the following steps:

- 1. Under **Tiering Configuration** in the left-hand main menu, click **Stub and ScheduleSettings**.
- In the Stub and Schedule Settings section, click New Stub and Schedule Settings or click the name of an already existing stub and schedule Settings name to edit these properties.

Stub and Schedule Settings			
The stub and schedule settings allow you to control how files will be tiered as well as the times allotted for tiering. Click on the stub and schedule settings name to edit these properties.			
Stub and Schedule Settings Name	Description	Server Count	
Default	Default tiering settings	3	
New Stub and Schedule Settings			

3. In the **Name and Description** section, enter a name and description for the stub and schedule settings. The name can then be assigned to one or more primary servers.

Name and Description		
Enter a name and description for the stub and schedule settings. This name can then be assigned to one or more primary servers.		
Stub and Schedule Settings Name		
	<u>×</u>	
Description		
	×	

4. In the **CIFS Primary Storage Stub Options** section, specify the options through which you want NTP Software VFM to handle files located on primary servers CIFS shares when they are tiered.



5. In the NFS Primary Storage Stub Options section, specify the options through which you want NTP Software VFM to handle files located on primary servers NFS exports when they are tiered.

**NOTE:** Microsoft Services for NFS must be installed on the task servers if you want to tier files from NFS exports.



- 6. In the NTP Software VFM File Intranet Website section, enter the URL of the website to which users are directed when they access a file on primary storage that was tiered and stubbed using either the URL or HTM stub options. This website allows users an option to recall files back to primary storage. The URL format is: "<u>http://<server>/PTFileIntranet</u>". Note: The NTP Software VFM File Intranet must be installed on <server>.
- 7. In the NTP Software VFM File Download UNC section, enter the UNC path that will be used as a temporary location to store recovered files. The format is <u>\\server\share\path</u> where "\path" is optional. The NTP Software VFM Access and Recovery portals offer users a choice when recovering files. If the user chooses to recover the files to the download site then those files will be temporarily stored in the UNC specified here.

8. If *Use Download Capability Only for the File Intranet Site* option is checked then users will not be offered a choice with the PTFileIntranet web site. Files will always be copied to the download site without affecting the stubbed file.



9. In the **Tiering Schedule** section, specify which options to use. NTP Software VFM can control when tiering requests are executed; immediately or during a specific time.



**Note**: When executing tiering requests during a specific time, the local time of the task service executing the requests will be used.

## **Configuring File Type Settings**

The file type settings allow you to enter a set of file types and to specify whether they are a set of excluded or included types.

To configure File Type settings, perform the following steps:

- 1. Under Tiering Configuration in the left-hand main menu, click File TypeSettings.
- 2. In the File Type Settings section, click New File Type Settings or click the name of an already existing File Type Settings Name to edit these properties.

File Type Settings		
The file type settings allow you to enter a set of file types and to specify whether they are a set of excluded or included types. Click on the file type settings name to edit these properties.		
File Type Settings Name	Description	Secondary Store/Scan Policy Count
Default	Default file type settings	0
New File Type Settings		

3. In the **Name and Description** section, enter a name and description for the file type settings. The name can then be assigned to one or more secondary storage groups as well as the Core Tiering Engine policies.

Name and Description			
Enter a name and description for the file type settings. This name can then be assigned to one or more secondary stores and Core Tiering Engine policies.			
File Type Settings Name			
	A		
Description			

- 4. In the **File Type Settings** section, enter one or more file types by which NTP Software VFM can limit the files that can be tiered.
- 5. Indicate whether the listed file types are a list of excluded or included file types.



#### **Core Tiering Engine in Brief**

The Core Tiering Engine works in conjunction with NTP Software VFM to tier files from one or more primary servers. As with RCDM, the Core Tiering Engine gives administrators a method to tier aged files from servers. The NTP Software VFM Administration site and corresponding Task Services must be configured in order for the Core Tiering Engine to tier files. Based on the configuration, the engine can scan CIFS shares and NFS exports, identify files that meet the requirements to be tiered, then issue tier requests to NTP Software VFM (Administration web site). The corresponding Task Services will process the tier requests that have been submitted to NTP Software VFM as would occur in any standard NTP Software VFM deployment.

**NOTE:**The Core Tiering Engine must be installed on the Windows server for which the NTP Software VFM Task Service controls the tiering of the primary server's files. To assign a Core Tiering Engine schedule and policy, click on the *Edit Server link for* the primary serveron the primary servers pageand enable *Scanning* for the Core Tiering Engine as well asassign the schedule. A policy can be assigned to each scan location added.

#### **Configuring Core Tiering Engine Scan Schedule**

The **Core Tiering Engine Scan Schedule** allows you to control when the Core Tiering Engine will run.

To configure CTE Scan Schedule, perform the following steps:

- 1. Under **Core Tiering Engine Configuration** in the left-hand main menu, click **Scan Schedules**.
- 2. In the **Core Tiering Engine Scan Schedules** section, click **New CTE Scan Schedule** or click the name of an already existing CTE Scan Schedule to edit these properties.

Core Tiering Engine Scan Schedules				
The Core Tiering Engine scan schedules allows you to control when the Core Tiering Engine will run. Click on the scan schedule name to edit these properties.				
CTE Schedule Name * Description Server Court				
Default	Default tier scan schedule	1		
New CTE Scan Schedule				

3. In the **Name and Description** section, enter a name and description for the Scan Schedule. The name can then be assigned to one or more primary servers.

Name and Description		
Enter a name and	I description for the scan schedule. This name can then be assigned to one or more primary servers.	
Schedule Name		
Description	2	

4. In the **Scan Schedule** section, specify the schedule that will control when the CTE will run and then click the **Add** button.

Scan Schedule		
Please specify the schedule that will control when the Core Tiering Engine will run.		
Frequency Monthly		
Day Last Saturday of Month -		
Time 1.00 am 💌		

#### **Configuring Core Tiering Engine Scan Policies**

The **Core Tiering Engine Scan Policies** allows you to control which files will be submitted for tiering by the Core Tiering Engine.

To configure CTE Scan Policy, perform the following steps:

- 1. Under Core Tiering Engine Configuration in the left-hand main menu, click Scan Policies.
- 2. In the **Core Tiering Engine Scan Policies**, click **New CTE Scan Policy** or click the name of an already existing CTE Scan Policy to edit these properties.

Core Tiering Engine Scan Policies				
The Core Tiering Engine scan policies allows you to control which files will be submitted for tiering by the Core Tiering Engine. Click on the scan policy name to edit these properties.				
CTE Policy Name +	Policy Name + Description Server/Scan Location Count			
Default	Default tier scan policy	1		
New CTE Scan Policy				

3. In the **Name and Description** section, enter a name and description for the Scan Policy. The name can then be assigned to one or more primary servers.

Name and Description		
Enter a name and description for the scan policy. This name can then be assigned to one or more primary servers.		
Scan Policy Name Default		
Default tier scan policy		
Description		
×		

4. In the Scan Policy section, specify the criteria by which NTP Software VFM can identify which files are tiered by the CTE. Files can be identified for tiering based on modified, accessed and created dates. Files can also be identified by file size and by file type settings.

**NOTE**: NTP Software VFM can control which files are tiered by the Core Tiering Engine. Files can be identified for tiering based on modified, accessed, and created dates. Files can also be identified for tiering based on file size by selecting the *Tier all files based on file size only* option. Each of the accessed, modified, and creation date settings below can be specified as either a number of months or a date.



#### NOTES:

- The date creation option will be ignored when the CTE scans files located on NFS exports.
- If multiple dates are selected then a file that meets one of the date's criteria will be tiered if it also meets the file size criteria and file type criteria.

# Configuring EMC Atmos for Use with NTP Software VFM

To configure EMC Atmos for use with NTP Software VFM, perform the following steps:

- 1. Log on to the EMC Administration console using the "SysAdmin" account.
  - i. Create the Tenant(s) that will be used in conjunction with NTP Software VFM.
  - ii. Ensure Web Service is enabled on each node.
  - iii. Enable/Disable SSL for Web Service Connections.
  - iv. Refer to the EMC Atmos Storage System documentation for a complete description on configuring the storage system.
- 2. Log on to the EMC Administration console using the Tenant credentials.
  - i. Create the Sub Tenant(s) that will be used in conjunction with NTP Software VFM.
  - ii. For each sub tenant create a UID and Shared Secret key that will be used in conjunction with NTP Software VFM.
  - iii. Refer to the EMC Atmos Storage System documentation for a complete description on configuring Tenants and Sub tenants.

# **Configuring Secondary Storage**

A secondary store contains the location and connection settings used to store the files that have been tiered.

#### Adding/Editing Secondary Store – EMC Atmos

A secondary store contains the location and connection settings used to store the files that have been tiered.

Click on the secondary store name to edit the store's location and connection settings. Click the "New Store" to create a new secondary storage location.

To add/edit secondary store – EMC Atmos, perform the following steps:

1. Under Secondary Storage in the left-hand main menu, click Secondary Storage >Storage Configuration >Storage Platforms >EMC Atmos.

Secondary Stores - EMC Atmos		
A secondary store contains the location and connection settings used to store the files that have been tiered. Click on the secondary store name to edit the store's location and connection settings. Click the "New Store" to create a new secondary storage location.		
Secondary Store Name	Description	Store Group Count
Default	Default Storage Settings for EMC Atmos	0
New Store		

2. In the **Secondary Stores EMC Atmos** section click **New Store** or click the name of an already existing secondary store to edit its properties.

3. In the Edit Existing Secondary Store – EMC Atmos dialog box edit the needed information. The name of the secondary store can be assigned to one or more primary servers to instruct the primary server where to place the tiered files.

Edit Existing Secondary Store - EMC	Atmos	
Enter a name for secondary store th	at you would like to use to identify its storage settings. This name can then be assigned to one or more pr	imary servers to instruct the primary server where to place the tiered flies.
Secondary Store Name	Default	
	Default Storage Settings for ENC Atmos	
Description		
r		
Enter the primary settings to access service will use to authenticate with	s the Atmos storage system. The tenant or sub-tenant id, user and shared key are what the task Atmos.	
Primary Address	10.30.3.39	
Primary Port	80	
Use Secure Connection (SSL)		
Primary Tenant or Sub-tenant ID	96c8ab5d418147acbb8cdef24637959e	
Primary User ID	QA1User1	
Primary User Shared Key	kbDrN9360RsCiM24/5cs15cliCE=	
Enter the optional alternate settings service will use to authenticate with	to access the Atmos storage system. The tenant or sub-tenant id, user and shared key are what the task Atmos.	
Alternate Address		
Alternate Port	60	
Use Secure Connection (SSL)		
Alternate Tenant or Sub-tenant ID		
Alternate User ID		
Alternate User Shared Key		
L		1

Field	Description
Address	Enter the fully qualified name of the EMC Atmos Storage System. An IP address can also be entered but will be limited to that one storage node.
Port	Enter the port to communicate with the EMC Atmos Storage System's web service. This will usually be port 80 when not using SSL and port 443 when using SSL.
Use Secure Connection (SSL)	Check this option if web service is using https otherwise uncheck when using http for the connection.
Tenant or Subtenant ID	Enter the ID of either a tenant or subtenant. This can be found in the EMC Atmos Administration console dashboard when logged in as a tenant or sub tenant.
User ID	Enter the UID name that will be used in conjunction with NTP Software VFM. This can be found in the Atmos Administration console dashboard when logged in as a tenant or sub tenant. Use one of the UID names listed in the UID List that was setup to use with VFM.
User Shared Key	Enter the Shared Secret key that corresponds with the User Id (UID). Click the <i>View</i> link on the Atmos Administration console next to the UID and enter that value.

#### **Adding/Editing Secondary Store Groups**

One or more secondary store names can be assigned to a group. Files will be tiered to each of the secondary stores assigned to the group.

To add/edit secondary store group, perform the following steps:

1. Under Secondary Storage in the left-hand main menu, click Secondary Storage >Storage Configuration >Store Groups.



**NOTE:** New secondary storage groups being created will initially be assigned to the secondary storage type shown in the above drop down control.

 In the Secondary Stores Groups section, click New Secondary Store Group or click the name of an already existing secondary store group to edit these properties.

Name and Description		
Enter a name and description for the secondary store group. This name can then be assigned to one or more primary servers.		
Group Name AtmosGrp1		
Description		
	w l	

3. In the **Secondary Stores, Optional File Type Assignments** section, assign one or more secondary stores to a group.

_										
5	Secondary Stores and Optional File Type Assignments									
	For each secondary store assigned to this group, files will be tiered to each of the secondary storage locations. If an optional file type name is present then only files whose name contains one of these file types will be tiered to that secondary storage location.									
1	Add Secondary Stores to Group (Press Assign to Include)									
1	Secondary Storage Type EMC Atmos									
Secondary Store Name Default										
File Type Name (Unspecified)										
	Assign									
	Secondary Stores Assigned to the Group									
	Remove	Secondary Store Name	Secondary Store Type	File Types	Priority					
	×	Default	EMC Atmos	(Unspecified)						

4. In the **Other Secondary Store Group Settings** section, specify the criteria for a successful tiering request.

Other Secondary Store Group Settings							
Please specify if liering files to all secondary stores or to at least one secondary store will denote a successful liering request.							
Requests are successful if files are copied to all secondary stores in the group.							
Requests are successfull if files are copied to at least one secondary store in the group. Note: This setting only applies if two or more secondary stores exist in the store group.							

#### NOTES:

- An optional File Types name can be assigned separately to each of the secondary stores. Files that match those file types will be tiered to that secondary store. You can assign different file types names if you want to tier files of different types to different locations.
- If the *Requests are successful if files are copied to all secondary stores in the group* is selected then only when the file has been successfully tiered to all of the secondary stores will the file be stubbed.
- If the *Requests are successful if files are copied to at least one secondary store in the group* is selected, then the file will be stubbed if it has been tiered to at least one of the secondary stores.

# **Configuring Primary Storage**

#### **Adding a New Primary Server**

A primary server is a source file server used to access primary storage. The Core Tiering Engine will scan the primary server's shares and select the files to be tiered based on the assigned policy's criteria. Users connecting to the primary server's shares will also be able to select files and folders for tiering using NTP Software RCDM.

When a new task service is installed, the primary server entered during the task service installation will be automatically added to the primary servers page within 60 seconds after the task service installation is complete. Primary servers that are automatically added will be configured to use the "Default" secondary storage group. "

The **New Primary Server** button can be used to add additional NAS or generic servers to an already existing task service installation.

The **New Primary Server** button can also be used to re-add a primary server that was previously deleted by the web admin. To undelete a primary server, click the **New Primary Server** button and type in the name of the primary server and choose the correct task server. You can also select a different task server having the same type if you want to move the primary server to another task server.

#### NOTES:

- The task service installer for a NAS or generic server will prompt for the initial NAS or generic host name. This host name will automatically be added to the primary servers, as described above.
- If you want the same task service to control more than one of the same type of NAS or generic server, then use the **New Primary Server** button.

To add a new primary server, perform the following steps:

- 1. Under **Primary Storage** in the left-hand main menu, click **Primary File Servers**.
- 2. In the **Primary File Servers** dialog box, click the **New Primary Server** button.

Pri	Primary File Servers											
A Primary Server is a source file server. Users connecting to the primary server's shares will be able to select files and folders for tiering. To add a new primary server, click the "New Primary Server' button. To update, delete, or disable tiering for an existing primary server, click the "Edit" button corresponding to that primary server.												
	Action	Primary Server	Primary Type	e Task Server	Tiering	Stub Settings	Secondary Store Gr	Tier Shares	CTE Scanning	CTE Sche		
E	dit Server Edit Shares	HOSSAM-W2K8	Windows (6.	HOSSAM-W2K8 (4.4.0.	Enabled	Default	AtmosGrp1	All Shares	Disabled	Default		
E	dit Server Edit Shares	CLTESTBOX	Windows (5.	CLTESTBOX (4.4.0.562	Enabled	Default	AtmosGrp1	All Shares	Enabled	Not Scl		
									1	×.		
	Default Secondary Store Group for New Primary Servers: AtmosGrp1      Make This Group the Default											

3. In the **Add New Primary Server** dialog box, enter the needed information. This dialog box enables you to assign the settings for Tiering, Stubbing, Secondary Storage Group and the CTE settings to a primary server.

Add New Primary Server								
Enter the fully qualified name of the primary server and assign it to the correct task server (device type). For example, if the primary server you want to add is a NetApp host, then enter the fully qualified name of the NetApp host as the primary server name and select a task server for NetApp.								
The Precision Treing <sup>TM</sup> task service on the task server must have full permissions to the NAS CIFS shares. If a task server is not found in the drop-down list, then you must first install the task server using the NTP Software Precision Treing <sup>TM</sup> Task Service for NetApp, EMC VNX, Windows or Generic. When the installation is complete, the task server (device) will appear in the drop-down list.								
More than one NAS primary server can be assigned to the same task server as long as the task service has full permissions to its CIFS shares. For a Windows primary server, you must select the task server (Windows or Generic) option, where the tas server name is the same as the primary server name.								
Tiering and Secondary Storage Settings								
Primary Server								
The Primary Server name represents a Cluster Name								
Task Server CLTESTBOX (Windows)								
Tiering Submission Enabled								
Stub and Schedule Settings Default								
Keep Auto-Recall active when not stubbing with the offline file attribute								
Secondary Store Group AtmosGrp1								
Allow tiering for shares that have not been configured								
Precision Tiering Recovery Download Location								
Vuse the "befault Download Location" UNC path								
File Download UNC								
Note: The Precision Tiening File Intranet, Recovery Portal, and Access Portal web site application pool users must be granted read access to this share and the root folder of this share.								

Core Tiering Engine Sett	inas					
Scanning	Disabled	•				
Scan Schedule	Not Scheduled	*				
Simulate Tiering	Disabled	-				
C Scan All Locations						
Scan Policy	Default	Ŧ				
Scan CIFS Shares	N					
Scan NFS Exports						
Excluded Locations	print\$,www.root\$,NETLOGON,SYSVOL					
Scan Specific Location						
	d Select Scan Policy (Press Add to Include)					
Scan Location						
Scan Policy	Default	Y				
Add						
Existing Scan Location	18 It for this Primery Server.					
Manually Launch Core T	ally Launch Core Tiering Engine					
Run Now						

If a task server is not found in the drop-down list, then you must first install the task service using the NTP Software VFM Task Service for the applicable primary server type. When the installation is complete, the task server will appear in the primary server drop- down list

More than one primary server can be assigned to the same task service as long as the task service has full permissions to its shares and the primary server is the same type as the specified task server.

Value	Definition
Primary Server	The name of the primary server you want to tier files from. For new primary servers being added, you can enter either the fully qualified name or the NetBIOS name. When editing, the primary server name will always display the netbios name and will not be editable.
Task Server	Select the appropriate task server that will be used to tier files from the primary server depending on the primary server's platform type.
Tiering Submission	Submitting tiering requests can be enabled or disabled. Primary servers that are disabled will continue to process all pending tiering requests; however, new tiering requests will be denied. Recall and Recovery requests are not affected and will always be accepted.

Stub and Schedule Settings	Select the name of a stub and schedule setting that will be used for stubbing files on the primary server after the file has been tiered.
Keep Auto-Recall active when not stubbing with the offline file attribute NOTE: This setting is not present for primary servers using the Task Service for Generic task server.	If checked, then the Auto-Recall connector will always be loaded and active even when files are being stubbed as HTM or URL file types instead of using the offline file attribute. This setting is useful when some files were previously being stubbed and set with the offline file attribute but that is no longer the setting now. This allows for these previous files to be auto- recalled.
Secondary Store Group	Select the name of the secondary storage group, which contains one or more secondary storage locations, to tier the primary server's files to.
Allow tiering for shares that have not been configured.	If checked, then all of the primary server's shares will be allowed to have files tiered from without being configured separately. If the share does not have an explicit configuration defined, then the primary server settings will be used.
	If not checked, then only the primary server's shares that are explicitly configured will be allowed to have their files tiered. Therefore tiering can be restricted to certain shares.
	Refer to the section on <i>Configuring Primary Server Shares</i> for more details.

Use the Default Download Location UNC Path	If checked then all file download requests initiated from the Access Portal, Recovery Portal or PTFileIntranet sites will use the default download location defined in the <i>Additional Configuration – Default</i> <i>Download Location</i> page. If unchecked, then all file downloads will be stored in the location specified below.
File Download UNC	If the above checkbox is not checked, then specify the UNC path to be used to temporarily store the contents of tiered files being downloaded from secondary storage.
	Note: The Access Portal, Recovery Portal and PTFileIntranet sites application pool users must be granted read access to the share and directories in this UNC path

#### **Important Notes:**

#### • The following applies to Task Services for Windows ONLY;

Primary Server name represents a Cluster name;

When checked indicates that the primary server name is the cluster which contains the shared resources. An additional text box will also appear for you to enter the name of the fail-over task server. Refer to the appendix for details on configuring tiering for a Microsoft Windows Cluster environment.

#### The following applies to Task Service for NetApp ONLY;

Enable Pass-through Read when stubbing with the offline file attribute;

If checked, then when a user double clicks on a stubbed file containing the offline file attribute, the contents of the file stored in secondary storage will be passed through to the user keeping the stub file intact, i.e. without recalling the file back to primary storage.

If not checked, then when a user double clicks on the stubbed file, the file on secondary storage will be copied back to primary storage overwriting the stub.

#### The following applies to Task Service for VNX ONLY;

VNX Control Station Settings: VNX hosts require the IP address of its control station as well as the login credentials for that control station.

• The following applies to Task Services for Generic ONLY;

The optional Linux Settings are for future use and should be left unset.

#### The Core Tiering Engine (CTE) Settings

The NTP Software Core Tiering Engine must be installed on the same server as the Task Server defined above.

To enable the CTE to scan the specified primary server, the CTE must be set to enabled and a Scan Policy and Scan Locations must be defined. The Scan Schedule is optional if you do not want CTE to scan based on a schedule.

CTE can be configured to scan all CIFS shares and/or all NFS exports that are found on the primary server by selecting the *Scan All Locations* radio button.

If you want CTE to scan specific locations then select that radio button, enter a Scan Location along with a policy and press the *Add* button.

Field	Description
Format of the Scan Location	"sharename\path" when the location you want to scan is a CIFS share located on the primary server. The primary server name is not included with the scan location. The "\path" is optional and can be used to limit the scan to specific paths on the share.
Format of the Export Location	"export\path" when the location you want to scan is an NFS export. The primary server name is not included with the scan location. The "\path" is optional and can be used to limit the scan to specific paths on the export. For example, if a location of "/vol/vol2" is entered then the export "\vol\vol2" will be scanned. NFS export and path names are case sensitive.

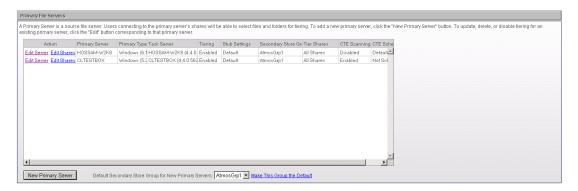
#### NOTES:

- Microsoft Services for NFS must be installed on the same server that the CTE engine is installed if you want to scan NFS exports.
- Once you have *added* specific locations, a grid will appear displaying those locations for which you will then have an option to remove them.
- Pressing the *Run Now* button to manually launch the CTE will trigger a scan within 5 minutes after pressing the button. You can view the *Primary File Servers Status* page to see its progress. The *Run Now* button will become disabled and will remain disabled until the CTE status becomes *Idle* as shown on the Primary File Servers Status page. This is to prevent multiple instances of the CTE from being executed.
- If you chose to enable the *Simulate Tiering* option, then the CTE will scan the locations but will not send tiering notifications to the NTP Software VFM Admin web site. Instead, it will log the total number of files and the total size of the files that meet the criteria for tiering. The log file will be located in the CTE's installation folder.
- 4. Click the Add button to add the new primary server.

### **Editing a Primary Server**

To edit an existing primary file server, perform the following steps:

- 1. Under **Primary Storage** in the left-hand main menu, click **Primary File Servers**.
- 2. In the **Primary File Servers** dialog box, click **Edit Server** before the primary server name that you want to edit.



3. In the **Edit Existing Primary Server** dialog box, enter the changes/updates to the server information and then click the **Update** button. Please refer to the *Add a New Primary Server* section.

#### NOTE:

To remove a primary server;

- If the corresponding task service has more than one primary server assigned to it, then you can remove one of its primary servers by clicking on the **Delete** button in the **Edit Existing Primary Server** dialog box.
- If the corresponding task service only has one primary server assigned to it and you want to remove that primary server, then:
- 1. Uninstall the NTP Software VFM Task Service first.
- 2. Click the Delete button in the Edit Existing Primary Server dialog box.

### **Configuring Primary Server Shares**

One or more shares and exports for a primary server can be configured with separate tiering options, stub and schedule settings and secondary storage group than the settings defined for the primary server itself.

#### NOTE:

After a new primary server has been added, it may take several minutes for the shares to be populated; however if the shares or exports continue tonot display on this page then the task service's login account may not have been made a member of the administrators group or the account does have the proper permissions to the NAS device.

To configureone or more primary file server shares, perform the following steps:

- 1. Under **Primary Storage** in the left-hand main menu, click **Primary File Servers**.
- 2. In the **Primary File Servers** dialog box, click **Edit Shares** for the primary server name that you want to edit.
- 3. The **Primary File Server Shares** dialog box will be displayed.

Not	es: Multiple values may be Use a ** within a value t		the values with a ',' o				
Г	Share Name 🔺	Share Type	Share Path	Tiering	Stub and Schedule Settings	Secondary Store (	
П	AccessPerms	CIFS	C:WccessPerms	Enabled(via Allowed)	Use Server Settings	Use Server Set	
	ADMIN\$	CIFS	C:WINDOWS	Enabled(via Allowed)	Use Server Settings	Use Server Set	
Π	C\$	CIFS	C:1	Enabled(via Allowed)	Use Server Settings	Use Server Set	
	Contractors	CIFS	C:\Contractors	Enabled(via Allowed)	Use Server Settings	Use Server Set	
Π	Offlinestore	CIFS	C:\Offlinestore	Enabled(via Allowed)	Use Server Settings	Use Server Set	
Π	SourceFiles	CIFS	C:\SourceFiles	Enabled(via Allowed)	Use Server Settings	Use Server Set	
Г	sources	CIFS	C:\sources	Enabled(via Allowed)	Use Server Settings	Use Server Set	
Г	Users	CIFS	C:\Users	Enabled(via Allowed)	Use Server Settings	Use Server Set	
						×	

Field	Description
Filter Shares text box and button	Used to display share names using a wild card. This is useful when there are thousands of shares defined on the primary server.
Share Name column	Displays the name of the CIFS share or NFS export.
Share Type column	Indicates if the sharename is CIFS or NFS
Share Path column	Shows CIFS share's path or NFS export's path.
Tiering column	Indicates whether the share is using the primary server settings or it has been explicitly configured with its own settings.
Enabled(via Allowed)	Indicates the share is using the primary server settings and the Allows tiering for shares that have not been configured checkbox is checked.
Disabled(via Allowed)	Indicates the share is using the primary server settings and the Allows tiering for shares that have not been configured checkbox is not checked.
Enabled(via Share)	Indicates the share has been explicitly configured with its own settings and its <i>Tier</i> setting is set to enabled.
Disabled(via Share)	Indicates the share has been explicitly configured with its own settings and its <i>Tier</i> setting is set to disabled.
Stub and Schedule Settings column	Displays the name of this setting for shares that have been explicitly configured.
Secondary Store Group column	Displays the name of this setting for shares that have been explicitly configured.
Configure Shares button	Allows you to select one or more shares to explicitly configure. The Primary Share Detail page will be displayed when this button is pressed.

Refresh Page button	Redisplays all of the shares. This is used in conjunction with the <i>Refresh Shares</i> button.
Refresh Shares button	This sends a message to the task service instructing it to reload all shares for this primary server into the database. The button will become disabled after pressing it. Use the <i>Refresh Page</i> button to redisplay the page from the shares in the database. After pressing Refresh Page, the Refresh Shares button will become enabled again.
	Note: Allow several minutes for the task service to re-populate the shares into the database. You can continue to press the Refresh Page button until the shares you are expecting to be shown appear. The Refresh Shares button is useful for when new shares are created on the primary server and you want them to appear within a short period of time.
Add to CTE Scan button	Allows you to select one or more shares to be included in a Core Tiering Engine (CTE) scan. Adding shares to the CTE from this menu will cause the CTE to scan the entire share. If you wish to scan certain directories within a share then you must use the primary file server settings page to add the paths to CTE.
Scan Policy drop down	Used in conjunction with the <i>Add to CTE</i> <i>Scan</i> button. The selected shares being added to CTE will be assigned to the CTE Scan Policy selected in the drop down.

4. On the Primary Share Detail section, specify the configuration details.

Primary Share Detail		
Configuration for Share: Acc	cessPerms	
Tiering and Secondary Sto	rage Settings	
Configuration	Use Server Settings	•
Share Settings		
Tiering	Enabled	*
Stub and Schedule Settings	Not Configured	+
Secondary Store Group	Not Configured	*

The tabular form outlined below displays the Configuration Options;

Field	Description
Use Server Settings	Allows the shares to inherit their settings from the primary server settings. If the primary server setting that Allows tiering for shares that have not been configured is not checked, then tiering files from these shares will not be allowed. Therefore selecting to Use Server Settings option unconfigures the share and resets it to use the primary server setting.
Use Share Settings	Allows you to explicitly configure the selected shares with its own set of tiering options for <i>Tiering</i> , <i>Stub and</i> <i>Schedule Settings</i> and <i>Secondary</i> <i>Store Group</i> . Using this option gives you the capability of tiering files located on different shares to different secondary stores.

# **Account Configuration**

Use the **Application Accounts** section to define the Windows accounts that are exempt from being able to auto-recall files from secondary storage. This is used to prevent applications that backup files on the primary servers or scan for viruses from recalling all files stubbed with the offline file attribute from secondary storage. Instead, the backup applications will backup the stub file without recalling its contents and the anti-virus applications will scan the stub file instead of recalling its contents.

To add an exemption account, simply type in the name of the application's service login account and press the Add button. These accounts are global, i.e. used by all task services.

Application Accounts
To prevent backup, anti-virus and other applications from inadventently reading or recalling the contents of offline files from their secondary stores, NTP Software Precision Tiering <sup>TM</sup> Tiering lets you specify the login accounts used by these applications here.
Add Login Account Using a Format of domainlaccount
Application Login Account
Add
Existing Application Accounts
No accounts exist.

OK Apply Cancel

## **Additional Configuration**

When the NTP Software VFM File Intranet, Recovery Portal or Access Portal Websites are used, the user is presented with a some options. One of the options is to recall or recover a tiered file to the download location. The default download location is defined at the NTP Software VFM File Download UNC outlined. Each primary server can be set to use this default location or use its own location, which can be defined in the primary file server page.

Default Recovery Download Location	
	web sites are used, the user is presented with a choice of options. One of the options is to recail or recover a tiered file ver can be set to use this default location or use its own location which can be defined in the primary file servers page.
Precision Tiering™ File Download UNC	
Note: The Precision Tiering <sup>TM</sup> File Intranet, Recovery Portal, and Access Portal web site application pool users must be granted read access to this share and the root folder of this share.	

OK Apply Cancel

The Task Service for VNX requires the EMC CAVA services to be installed as well as the Proxy Service. These services are needed to provide auto-recall support for EMC VNX servers version 7.1.74.5 and later. A single instance of Proxy Service is capable of providing auto-recall support for multiple EMC VNX servers. Enter the NetBIOS name of the server which has the Proxy Service installed. Each VNX primary server can be set to use this default server or use its own proxy server which can be defined in the primary file server page.

#### Default NTP Proxy Server

The NTP Software Task Service for VNX requires the EMC CAVA services to be installed as well as the NTP Software Precision Tiering<sup>TM</sup> Proxy Service. These services are needed to provide auto-recall support for EMC VNX servers version 7.1.7.4.5 and later. A single instance of the NTP Software Precision Tiering<sup>TM</sup> Proxy Service is capable of providing auto-recall support for multiple EMC VNX servers. Enter the netbios name of the server which has the NTP Software Precision Tiering<sup>TM</sup> Proxy Service is capable of providing auto-recall support for multiple EMC VNX servers. Enter the netbios name of the server which has the NTP Software Precision Tiering<sup>TM</sup> Proxy Service installed.

Note: The Proxy Server Netbios name must be defined in DNS.

OK Apply Cancel

## **VFM Status Pages**

#### **Viewing Primary File Server Status**

This page displays the status of your NTP Software VFM task servers and Core Tiering Engine (CTE) status.

To view the primary file server status, click **Primary File Severs Status** under the **Status** in the left-hand main menu. The **Primary File Server Status** page is displayed.

Primary File Serve	rs Status					
Primary Server	Primary Type	Task Server +	Task Service Status	Last Update	CTE Status	Last CTE Scan
CLTESTBOX	Windows	CLTESTBOX	Idle	5/13/2014 6:50:46 AM	Disabled	
HOSSAM-W2K8	Windows	HOSSAM-W2K8	Idle	3/18/2014 6:35:02 PM	Disabled	
Refresh						

The page shows the name of the server and the status (whether it is idle or executing). If it is executing, it will show the request ID that is currently executing.

The Task Server Status states include:

- "Idle" The task service has no requests to process. The Last Update date will be updated every 5 minutes so that there is an indication of whether or not the task service is in a normal operating state.
- "Executing" The task service is currently executing a request. When the request is complete, its results can be viewed on the completed page.
- "Disabled" The task service will no longer accept tier requests. Use the "Primary Servers" page to re-enable it.

The CTE Status states include:

- "Idle" A CTE scan is not running.
- **"Pending"** A CTE scan has been manually initiated and will start executing within 5 minutes.
- "Executing" A CTE scan is currently running.
- **"Disabled"** The CTE engine has been installed but scanning has not been enabled for the primary server. Refer to the Primary Server details page.
- "Not Installed" The CTE engine has not been installed on the task server.

The last CTE scan displays the date of when the CTE engine last scanned the primary server.

### **Viewing Queued Requests (On-Demand)**

This page displays all the pending requests that have been submitted by the Right-Click Data Movement (RCDM) application or the Event-Driven Data Movement (EDDM) application. There are three types of requests, Tier, Recall, and Recover. Each request is assigned an ID for which you can drill into and view additional information. Requests are also stamped with the time it was submitted along with the primary server the request was issued for. Pending requests can also be placed on hold until released and they can be removed.

To view queued requests, perform the following steps:

1. Under Status in the left-hand main menu, click **On-Demand Status>Queued Requests**. The **Queued Requests** page is displayed.

Queued	Requests							
Note: R	efer to the <u>Ta</u>	sk Service Stati	us, on the Primary	File Servers Status pag	ie, for additional stat	tus information.		
Select	Batch ID	Request ID	Request Type	Request Time	Submitted By	Task Server	<u>Status</u> •	Source Path
	4	4	Tier Files	5/30/2014 9:49:39 AM	OurDomain\User1	CLTESTBOX	Pending	\\CLTESTBOX\SourceFiles\OfficeFolder
	5	<u>5</u>	Tier Files	5/30/2014 9:53:01 AM	OurDomain\User1	CLTESTBOX	Pending	\\CLTESTBOX\SourceFiles\TextFolder
	1							
Delete	e Hold	Release Hol	d Refresh					

2. To view the details of the request, click the link for the request ID. This will show the details of the request: the request ID, who submitted it, when it was submitted, the UNC path of the file, the file name, the file size, and the file owner.

**NOTE**: If the request type was to tier or recall specific files, then those file names, sizes, and owners will appear. If the request type was to tier or recall a folder, then the file grid will not appear.



#### NOTES:

- Queued requests are sitting in a queue waiting to be serviced. Pending items will get processed in a sequential order.
- On-hold(Manual) means the item was placed on hold manually, i.e. by using the Hold button. Items that are manually held will not be processed until the administrator releases the hold on the item.
- On-hold(Network) means the item was placed on hold by a task service due to a network issue while trying to tier or recall an item. When the network issue is resolved then these held items will automatically be released by the task service.

It is possible to place network held items on manual hold by selecting the items and pressing the hold button. When doing this then those items will be held until manually released.

3. To move an item from queued to on-hold, or to release an item from hold, simply check the **Select** column and then click either the **Hold** or **Release Hold** button. Administrators can put tiering requests on hold, release the hold, or delete the requests.

Note: R	efer to the <u>Ta</u>	ask Service Sta	<u>tus,</u> on the Priman	y File Servers Status paj	ge, for additional sta	tus information.		
Select	Batch ID	<u>Request ID</u>	Request Type	Request Time	Submitted By	Task Server	<u>Status</u> •	Source Path
	4	4	Tier Files	5/30/2014 9:49:39 AM	OurDomain\User1	CLTESTBOX	On Hold(Manual)	\\CLTESTBOX\SourceFiles\OfficeFolder
	5	6	Tier Files	5/30/2014 9:53:01 AM	OurDomain\User1	CLTESTBOX	Pending	\\CLTESTBOX\SourceFiles\TextFolder

#### **Viewing Completed Requests (On-Demand)**

This page displays all of the most recent completed requests. The number of completed requests that will be displayed is 250 by default. This number is controlled by the *MaxCompletedRequestsToDisplay* value found in the web.config file. By clicking the Batch ID, you can drill into and view the results of the request.

To view completed requests, perform the following steps:

1. Under Status in the left-hand main menu, click On-Demand Status>Completed Requests. The Completed Requests page is displayed.

Completed F	lequests								
Batch ID +	Batch Status	Request Type	Secondary Group	Primary Server	Primary Share	Task Server	Submitted By	Start Time	Duration
9	Completed	Tier Files	AtmosGrp1	CLTESTBOX	SourceFiles	CLTESTBOX	OurDomain\User1	6/16/2014 8:47:27 AM	00:00:10
Z	Completed	Recall Folder	AtmosGrp1	CLTESTBOX	Contractors	CLTESTBOX	OurDomain\User1	5/30/2014 10:10:47 AM	00:00:01
3	Completed	Recall Files	AtmosGrp1	CLTESTBOX	sources	CLTESTBOX	OurDomain\User1	5/9/2014 12:41:26 PM	00:00:00
2	Completed	Tier Files	AtmosGrp1	CLTESTBOX	sources	CLTESTBOX	OurDomain\User1	5/9/2014 12:36:09 PM	00:00:02
1	Has Errors	Tier Files	AtmosGrp1	CLTESTBOX	sources	CLTESTBOX	OurDomain\User1	5/9/2014 12:29:49 PM	00:00:00

2. To view the details of the batch, click the link for the BatchID. This will show the details of the batch.

Completed Requests	5				
Batch Id:	9				
Request Type:	Tier Specific File	e(s)			
Store Group:	AtmosGrp1				
Number of Requests:	a: <b>1</b>				
	OurDomainUse				
Time Submitted:	6/16/2014 8:46:2	21 AM			
	6/16/2014 8:47:2	27 AM			
	00:00:10				
	Processed: 1, E		rrored: 0		
	3, Total Size: 0.9				
	0, Total Size: 0.0				
Files Access Denied:					
	0, Total Size: 0.0				
Files Errored:	0, Total Size: 0.0	DO WB			
Request ID + Reque	uest Status Ta	sk Server	Start Time	Duration	Source Path
11 Compl	pleted CL	TESTBOX	6/16/2014 8:47:27 AM	00:00:10	\CLTESTBOX\SourceFiles\TextFolder

3. To view the results of the files being tiered to each of the secondary stores defined in the storage group, click on the Store Group link.



4. To dig further to the request within the specified batch, click the View link.



#### NOTES:

- If the request type was to tier or recall specific files, then those file names and sizes will appear.
- If the request type was to tier or recall a folder, then the file grid will not appear.
- 5. Navigate to the batch details page (as per step #2 of this section), you can drill into the Request ID in the file grid, you will be able to view the results of each file on Primary Storage. Whether the file was stubbed, for tiering requests, or restored for recall requests.

Request Detail	
Request Id:	11
Request Type:	Tier Specific File(s)
Request Status:	Completed
Submitted By:	OurDomain User 1
Time Submitted:	6/16/2014 8:46:21 AM
Time Started:	6/16/2014 8:47:27 AM
Duration:	00:00:10
Source Path:	VCLTESTBOX/SourceFiles/TextFolder
Folder Counts:	Processed: 1, Excluded: 0, Errored: 0
Files Processed:	3, Total Size: 0.95 MB
Files Excluded:	0, Total Size: 0.00 MB
Files Access Den	ed: 0, Total Size: 0.00 MB
Files In-Use:	0, Total Size: 0.00 MB
Files Errored:	0, Total Size: 0.00 MB
File Name + File	Size (KB) Status File Owner
TextFile1.txt	251.88 File Tiered, (Active Stub) OurDomain(User2
TextFile2.txt	358.92 Fle Tiered, (Active Stub) OurDomain(User2
TextFile3.txt	358.92 File Tiered, (Active Stub) OurDoman\User2

### **Viewing Queued Requests (CTE)**

This page displays the requests that have been submitted by a Core Tiering Engine (CTE) scan. The requests are sorted by the date and time the Core Tiering Engine was executed. You can drill into and view additional information. To view queued requests, perform the following steps:

1. Under Status in the left-hand main menu, click Core Tiering Engine Status>Queued Requests. The Queued Scans page is displayed.

Queued Scans					
Note: Refer to the Task	Service Status, on f	the Primary File Serve	ers Status page, for	additional status	information.
Request Time +	Request Type	Submitted By	Primary Server	Task Server	Status
5/30/2014 10:13:43 AM	Tier Files	OurDomain\User3	CLTESTBOX	CLTESTBOX	Pending
Refresh					

2. To view the details of the request, click the link for the Request Time. This will show the details of the request and the current status. The Core Tiering Engine divides a scan into multiple batches. Each batch contains multiple requests and each request contains multiple files that will be tiered. By drilling into a Batch-ID, you can view all the requests for that batch and then by drilling into a Request-ID you can view all of its files as shown by the following screen shots.

3. To view the requests within a certain Batch ID, click on the Batch ID link.

Queued	Requests							
Note: Re	efer to the <u>Ta</u>	sk	Service Status, or	the Primary File Servers	Status page, for ad	ditional status ir	nformation.	
Select	Request ID		Request Type	Request Time	Submitted By	<u>Task Server</u>	Status -	Source Path
		9	Tier Files	5/30/2014 10:13:43 AM	OurDomain\User3	CLTESTBOX	Pending	\\CLTESTBOX\Contractors\Contractor1
		0	Tier Files	5/30/2014 10:13:43 AM	OurDomain\User3	CLTESTBOX	Pending	\\CLTESTBOX\Contractors\Contractor2
Dialata	e Hold		Release Hold	Refresh Select All	Baguaata			
Delete	e Hold	_	Release Hold	Retresh   Select All	Requests			

4. To view the request details, click on the Request ID.

Request Detail			
Request Id:	9		
Request Type:	Tier Specific File	(s)	
Submitted By:	OurDomain\User	3	
Time Submitted:	5/30/2014 10:13:	43 AM	
Source Path:	\\CLTESTBOX\Co	ntractor	s\Contractor1
<u>File Name</u> ▲	<u>File Size (</u>	<u>KB)</u>   E	<u>ile Owner</u>
ProjectSpecs.do	: 2,7	81.00 C	)urDomain\User2
ProjectTimefram	e.doc 3	15.16 C	)urDomain\User2

## **Viewing Completed Requests (CTE)**

This page displays all of the most recent completed requests. The number of completed requests that will be displayed is 250 by default. This number is controlled by the *MaxCompletedRequestsToDisplay*value found in the web.config file. By clicking the Date Time Stamp, you can drill into and view the results of the request.

To view completed requests, perform the following steps:

1. Under Status in the left-hand main menu, click Core Tiering Engine Status>Completed Requests. The Completed Requests page is displayed. The requests are sorted by the date and time the Core Tiering Engine was executed.

Completed Scans							
Note: Scans listed here	may still cont	ain outstanding	requests. Refer to	the <u>Queued Requests</u>	page to view any o	utstanding reque	sts.
Start Time 👻	Duration	Batch Status	Request Type	Secondary Group	Primary Server	Task Server	Submitted By
6/16/2014 8:47:31 AM	00:00:06	Completed	Tier Files	AtmosGrp1	CLTESTBOX	CLTESTBOX	OurDomain\User3
5/30/2014 10:08:31 AM	00:00:06	Completed	Tier Files	AtmosGrp1	CLTESTBOX	CLTESTBOX	OurDomain\User3

- 2. The Core Tiering Engine divides a scan into multiple batches. Each batch contains multiple requests and each request contains the results of files that were tiered. By drilling into a Batch-ID, you can view all the requests for that batch and then by drilling into a Request-ID you can view the results of all of its files as shown by the following screen shots.
- 3. To view the details of the request, click the link for the **Start Time**. This will show the status for each batch.

Completed Requests								
Batch ID - Batch Status	Request Type	Secondary Group	Primary Server	Primary Share	Task Server	Submitted By	Start Time	<u>Duration</u>
6 Completed	Tier Files	CifsGrp1	CLTESTBOX	Contractors	CLTESTBOX	OurDomain\User3	5/30/2014 10:08:31 AM	00:00:06

4. To view the requests within a certain Batch ID, click on the Batch ID link.

Completed Requests	\$			
Batch Id:	6			
Request Type:	Tier Specific File(s)			
Store Group:	AtmosGrp1			
Number of Requests	s: 2			
Submitted By:	OurDomain/User3			
Time Submitted:	5/30/2014 10:08:23 A	М		
Time Started:	5/30/2014 10:08:31 A	М		
Duration:	00:00:06			
Folder Counts:	Processed: 2, Exclud	ed: 0, Errored: 0		
Files Processed:	4, Total Size: 5.59 ME			
Files Excluded:	0, Total Size: 0.00 ME			
Files Access Denied	d: 0, Total Size: 0.00 ME			
Files In-Use:	0, Total Size: 0.00 ME			
Files Errored:	0, Total Size: 0.00 ME			
Request ID + Requ	uest Status Task Se	rver Start Time	Duration Source Path	
7 Com	pleted CLTEST	BOX 5/30/2014 10:08:36 AM	00:00:01 \\CLTESTBOX\Contractors\(no lor	onαer av
6 Comp			00:00:01 \\CLTESTBOX\Contractors\(no lor	

6. To view the results of the files being tiered to each of the secondary stores defined in the storage group, click on the Store Group link.

NOTE: If the request type was to tier specific files, then those file names, size, and

owners will appear. If the request type was to tier a folder, then the file grid will not appear.

Completed Reque	ests					
Request Type:	Tier Specific F	ile(s), Note: Informat	ion is no longer	available regarding	file detail	
Primary Server:	CLTESTBOX					
Primary Share:	Contractors					
Task Server:	CLTESTBOX					
Secondary Group	: AtmosGrp1					
Submitted By:	OurDomain Us	ser3				
*All 'Size' values	are shown here i	n MB units.				
Requests Priorit	y ▲ <u>Status</u>	Secondary Store	Store Type	Files Processed	Files Excluded	Files Errored
View 1	Completed	Default	ATMOS	4, Size: 5.59	0, Size: 0.00	0, Size: 0.00

7. To dig further to the request within the specified batch, click the View link.



8. Drilling into the Request ID in the file grid, you will be able to view the results of each file on Secondary Storage.



9. Navigate to the batch details page (as per step #4 of this section), you can drill into the Request ID on this page to view the results of each file on Primary Storage and whether or not the file was stubbed or a warning or error occurred.

Completed Requests				
Batch Id:	6			
Request Type:	Tier Specific File(s)			
Store Group:	AtmosGrp1			
Number of Requests	2			
Submitted By:	OurDomain/User3			
Time Submitted:	5/30/2014 10:08:23 AM			
Time Started:	5/30/2014 10:08:31 AM			
Duration:	00:00:06			
Folder Counts:	Processed: 2, Excluded	1: 0, Errored: 0		
Files Processed:	4, Total Size: 5.59 MB			
	0, Total Size: 0.00 MB			
	0, Total Size: 0.00 MB			
	0, Total Size: 0.00 MB			
Files Errored:	0, Total Size: 0.00 MB			
Request ID + Requi	est Status Task Serv	er Start Time	Duration	Source Path
Z Comp	oleted CLTESTBO	DX 5/30/2014 10:08:36 AM	00:00:01	\CLTESTBOX\Contractors\(no longer av
6 Comp	cLTESTBO	DX 5/30/2014 10:08:31 AM	00:00:01	ICLTESTBOXIContractorsI(no longer av

Request Detail	
Request Id:	7
Request Type:	Tier Specific File(s)
Request Status:	Completed
Submitted By:	OurDomain/User3
Time Submitted:	5/30/2014 10:08:23 AM
Time Started:	5/30/2014 10:08:36 AM
Duration:	00:00:01
Source Path:	\CLTESTBOX\Contractors\Contractor2
Folder Counts:	Processed: 1, Excluded: 0, Errored: 0
Files Processed:	2, Total Size: 2.57 MB
Files Excluded:	0, Total Size: 0.00 MB
Files Access Denie	t: 0, Total Size: 0.00 MB
Files In+Use:	0, Total Size: 0.00 MB
Files Errored:	0, Total Size: 0.00 MB
File Name	File Size (KB) Status File Owner
Project.doc	1,077.91 File Tiered, (Active Stub) OurDomain\User2
ProjectExpenses.xls	1,552.00 File Tiered, (Active Stub) OurDomain(User2

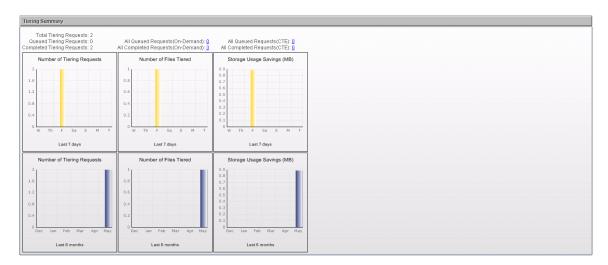
# **NTP Software VFM Reports**

### **Viewing Tiering Summary**

This page displays the total number of tier requests processed and storage savings by all primary servers for the past 7 days and the past 6 months.

**NOTE**: Information is only displayed for tier requests. Recall requests are not taken into consideration here.

To view the data movement summary, click **Home** in the left-hand main menu. The **Tiering Summary** page is displayed.



The top section shows the total number of requests that have been made by end users. There are 6 charts on the screen divided into 2 rows; the top row shows what happened in the last 7 days, and the bottom row shows what happened in the last 6 months.

The tiering requests, files tiered, and storage usage savings shown in the top charts represent what the user has done during the last week.

Similarly, the bottom charts show what happened on a monthly basis, with the number of tiering requests, number of files tiered, and storage usage savings the user has achieved during the last 6 months.

#### **Viewing Requests By User**

This page displays the number of tier and recall requests for each user who submitted requests.

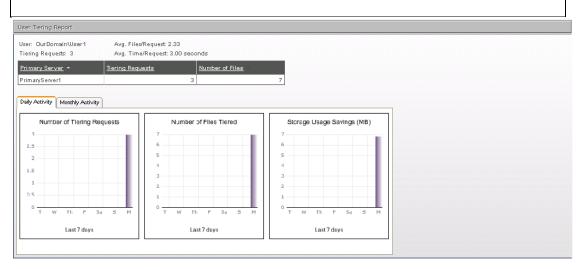
To view this report, perform the following steps:

1. Click **Requests by User** under**Reports** in the left-hand main menu. The **User Report** is displayed.

User Report			
	finale e Domonate	De e-ll De mueste	
Submitted By A	liering Requests	Recall Requests	
NTPGREATVAdministrator	3		4

2. To display more detail, click the user name. This page displays the number of requests for the selected user that were destined for each of the primary servers listed. This page also displays statistical information for the past 7 days as well as for the month (when the *Monthly Activity* tab is selected).

**NOTE**: Detailed information is only displayed for tier requests. Recall requests are not taken into consideration here.



#### **Viewing Requests By Primary Server**

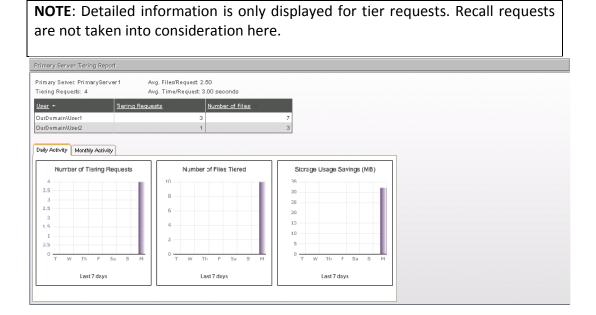
This page displays the number of tier and recall requests processed by each primary server.

To view this report, perform the following steps:

1. Click **Requests by Primary Server** under **Reports**inthe left-hand main menu. The **Primary Server Report** is displayed.



2. To display more detail, click the primary server name. This page displays the number of tier requests for this selected server and each of the users who submitted requests for it. This page also displays statistical information for the past 7 days as well as for the month (when the *Monthly Activity* tab is selected).



# Database Appendix

L 11	
Appendix Name	Database Appendix
Default	NTPSoftwareVFM: This is the configuration database, it holds
Names for	configuration data as well as queued and completed request data.
NTP Software	
VFM	NTPSoftwareVFMStores: This is the stores database; it holds all tiered
Databases	file data.
Steps to	Using Microsoft SQL Server Management Studio on the current
move the	database server;
location of	Backup the configuration database to a file.
the	
configuratio	<ul> <li>Using Microsoft SQL Server Management Studio on the new</li> </ul>
n database	database server;
	1. Create the database on the new server. It is
	recommended to use a collation of:
	"SQL_Latin1_General_CP1_CI_AS"
	2. Restore the configuration database to the new server.
	<ol><li>Remove the "oddm_web_svc" user from the "Security"</li></ol>
	item under the configuration database, it is no longer
	valid. Remove the schema, if prompted to do so.
	4. Create a new "Login" under the main "Security" item,
	using a login name of: "oddm_web_svc"
	a. Set it to use SQL Server authentication.
	b. Set the default database to the name of the
	configuration database, default is:
	"NTPSoftwareVFM".
	<ul><li>c. Set the default language to "English".</li><li>d. Server Roles can be left as all unchecked.</li></ul>
	e. User Mapping: Assign "db_backupoperator",
	"db_datareader", "db_datawriter" and "public"
	to the configuration database.
	5. NOTE: The "oddm web svc" user should now be a
	"User" in the "Security" item under the configuration
	database too. This occurred during step 4b.
	a. Select the "oddm web svc" user in the
	"Security" item under the configuration database
	and choose "Properties".

	<ul> <li>b. On the "Securables" tab, "Add" the three stored procedures and grant "Execute" permissions to each. The three stored procedures are: <ol> <li>dbo.BackupDatabase</li> <li>dbo.DeleteAgedRequests</li> </ol> </li> <li>6. Open the NTP Software VFM Administration web site and update the database settings for the configuration database. Be sure to update the password field too.</li> <li>7. The database move is now complete</li> </ul>
Steps to	Using Microsoft SQL Server Management Studio on the current
move the	database server
location of	Backup the stores database to a file.
the stores	
database	<ul> <li>Using Microsoft SQL Server Management Studio on the new</li> </ul>
	database server
	1. Create the database on the new server. It is
	recommended to use a collation of:
	"SQL_Latin1_General_CP1_CI_AS"
	2. Restore the stores database to the new server.
	<ol><li>Remove the "oddm_web_svc" user from the</li></ol>
	"Security" item under the stores database, it is no
	longer valid. Remove the schema too if prompted to
	do so.
	4. If the new stores database server is the same as the
	configuration database server then skip step 5 and go to step 6.
	5. Create a new "Login" under the main "Security" item,
	using a login name of: "oddm_web_svc"
	a. Set it to use SQL Server authentication.
	b. Set the default database to the name of the
	stores database, default is:
	"NTPSoftwareVFMStores".
	c. Set the default language to "English".
	d. Server Roles can be left as all unchecked.
	e. User Mapping: Assign "db_backupoperator",
	"db_datareader", "db_datawriter" and "public"
	to the stores database.
	f. Go to Step 7.
	6. If step 5 was performed then skip this step and go to
	step 7, otherwise the "oddm_web_svc" login must be
	added to the "Security – User" item under the stores database as a new user:
	ualabase as a new user.

<ol> <li>User name: "oddm_web_svc".</li> </ol>
b. Login name: "oddm_web_svc" (select it from
the browse menu).
<ul> <li>c. Assign database roles of: "db_backupoperator",</li> </ul>
"db_datareader", "db_datawriter".
7. Create a new "Login" under the main "Security" item,
using a login name of: "domain\account" where this
account is the same as the service account used by
the NTP Software VFM Task Services. If the task
services use different accounts then Steps 7 and 8
must be performed for each account.
a. Set it to use Windows authentication.
b. Set the default database to the name of the
stores database, default is:
"NTPSoftwareVFMStores".
c. Set the default language to "English".
d. Server Roles can be left as all unchecked.
e. User Mapping: Assign "db_backupoperator",
"db_datareader", "db_datawriter", "db_owner"
and "public" to the stores database.
8. NOTE: The "domain\account" user should now be a
"User" in the "Security" item under the stores
database too. This occurred during step 7b.
a. Select the "domain\account" user in the
"Security" item under the stores database and
choose "Properties".
b. On the "Securables" tab, "Add" the stored
procedure and grant "Execute" permissions to
it. The stored procedure is:
i. dbo.spNextFil
eld
9. Open the NTP Software VFM Administration web site
and update the database settings for the stores
database. Be sure to update the password field too.
10. The database move is now complete.
to: the database move is now complete.

# Windows Cluster Appendix

Appendix Name	Windows Cluster Appendix
Installing the Task Service	1. Install a Task Service for Windows on each of the

for Windows on the cluster server nodes	<ul> <li>Cluster server nodes.</li> <li>In the VFM Administration web site wait for each of the task servers to display on the Primary Servers page.</li> <li>Decide whether or not you want to allow tiering of files located on each of the task servers local shares. Local shares are not part of the clustered shares.</li> <li>a. If you want to allow tiering upon local shares then click on the "edit" selection for each of these servers on the Primary Server page and select your configuration options.</li> <li>b. If you do NOT want to allow tiering upon the local shares then click on the "edit" selection for each of the servers on the Primary Server page and select your configuration options.</li> </ul>
	page and set "Tiering" to "Disabled".
Configuring the Task Services for Windows for use with the cluster	<ol> <li>On the Primary Servers page, click on the "New Primary Server" button.</li> <li>Enter the name of the cluster in the "Primary Server" field.</li> <li>Check the checkbox for "The Primary Server name represents a cluster name"</li> <li>Select one of the Windows task servers installed on the cluster server nodes, from the drop down, to be used as the initial "Task Server". It will process tiering requests issued from any of the clustered shares. It is recommended to use the server which currently has control of the quorum.</li> <li>Select the other Windows task server installed on the other cluster server node, from the drop down, to be used as the "Failover Task Server".</li> <li>Select the rest of your configuration options.</li> </ol>

Enabling Auto-Recall for the cluster when the	If both of these bullet items are true then perform this step otherwise there is nothing more to do and you are done.
cluster is configured to stub files using the offline file attribute	<ul> <li>The cluster will be stubbing files using the offline file attribute.</li> <li>The cluster server nodes are either disabled or will be stubbing files using a different stubbing option, i.e. not using the offline file attribute.</li> <li>a. Auto-Recall must be kept enabled on each of the cluster server nodes so that auto-recall of files located on the cluster will function. To allow this do:</li> </ul>
	i. On the Primary Servers page,

	"edit" each of the cluster server nodes and check the checkbox for "Keep Auto-Recall active when not stubbing with the offline file attribute. ii. Note: There is no need to check the checkbox for "Keep Auto-Recall active when not stubbing with the offline file attribute" on the cluster. It will have no effect.
Additional configuration when in an environment whose tiered files are being replicated and the source files are stubbed using the offline file attribute	For auto-recall to function properly, in this type of environment, both of the Windows server nodes and the Cluster node must be configured to use the same exact secondary store name otherwise auto-recall may fail trying to retrieve a replicated file on the secondary storage device.

# Controlling User Access to the NTP Software VFM Administration Website Appendix

Appendix Name	Controlling User Access to the NTP Software VFM Administration Website
To make sure that Windows Authentication is turned on for the Admin site.	<ul> <li>Open IIS Manager</li> <li>Expand the Default website and select the "PTAdmin" virtual directory. Note: The virtual directory name may be "ODDMAdmin" if the admin was upgraded from an earlier version.</li> <li>Double click on Authentication and ensure Windows Authentication is enabled and all other authentication methods are set to disabled.</li> </ul>
Enabling SSL on the Administration Web Site	<ul> <li>Open IIS Manager</li> <li>Expand the Default website and click on the "PTAdmin" virtual directory. Note: The virtual directory name may be "ODDMAdmin" if the admin was upgraded from an earlier version.</li> <li>Double click on SSL Settings and check the "Require SSL" checkbox</li> <li>NOTE: During installation of the other NTP Software VFM components you may be prompted to supply the name of the administration web site. Use "https" instead of "http" when SSL has been enabled here. Also, include the port number when not using port 80. If the components have already been installed then refer to the SSL section below.</li> </ul>
Allowing Authorization to specific users and groups to access the NTP Software VFM Administration site	<ul> <li>Go to the Admin site installation folder, by default it is installed here: "C:\Program Files (x86)\NTPSoftware\VFM\Web"</li> <li>Open the Web.config file in a text editor</li> <li>To allow specific users place the following xml directly underneath this tag: <authentication mode="Windows"></authentication>. Separate each user account with a comma.</li> <li><authorization></authorization></li> </ul>
	users="domainname\user1,domainname\user2,do

	mainname\user3" />
	<deny users="*"></deny>
	<ul> <li>To allow specific groups place the following xml directly underneath this tag: <authentication mode="Windows"></authentication>.</li> </ul>
	Separate each group account with a comma.
	When allowing both users and groups then simply insert the " <allow "<allow="" above<="" in="" line="" roles"="" td="" the="" under="" users"="" xml=""></allow>
	<authorization></authorization>
	<allow roles="domainname\group1,domainname\group2, domainname\group3" /&gt;</allow 
	<deny users="*"></deny>
	NOTE: To allow both users and groups then combine <allow users&gt;, <allow roles=""> and <deny users=""> into a single <authorization> section.</authorization></deny></allow></allow 
NTP Software VFM Task Service Accounts need to be Authorized	<ul> <li>When authorization to specific users and groups was configured above then:         <ul> <li>The login accounts for each task service must be entered in the list of "allow users" otherwise, the task service will not be able to communicate with the admin site.</li> </ul> </li> <li>When authorization to specific users and groups was not configured then:         <ul> <li>The administration web site's authentication must be enabled for Windows Authentication and/or Anonymous. This will allow the task services access to the admin site.</li> </ul> </li> </ul>
NTP Software VFM Access and Recovery Portals and the PTFileIntranet sites	<ul> <li>When authorization to specific users and groups was configured above then:</li> <li>If the portal is installed on the same host as the</li> </ul>

need to be Authorized	<ul> <li>admin site then add "NT AUTHORITY\NETWORK SERVICE" to the list of "allow users".</li> <li>If the portal is installed on a different host than the admin site then add "Domain\Host\$" to the list of "allow users" where Domain is the name of the domain that the host is in and Host\$ is the NetBIOS name of the host followed by the dollar symbol.</li> <li>When authorization to specific users and groups was not configured then:         <ul> <li>The administration web site's authentication must be enabled for Windows Authentication and/or Anonymous. This will allow the portal access to the</li> </ul> </li> </ul>
NTP Software VFM Administration Web Site Prompt for Credentials	<ul> <li>admin site.</li> <li>When authorization to specific users and groups was configured above then:</li> <li>When a user is logged on as one of the accounts in the "allow users" list then they should not be prompted for credentials when accessing the admin site because Windows Authentication will automatically allow them access. This is usually the case when using Internet Explorer. Other browsers may still prompt for credentials unless specific NTLM settings are applied to the browser as described below.</li> </ul>
	<ul> <li>When a user is logged on with an account that is not in the list then they will be prompted for credentials.</li> <li>When authorization to specific users and groups was not configured then: <ul> <li>If the administration web site's authentication has Anonymous enabled then users will not be prompted for credentials.</li> <li>If the administration web site's authentication has Windows Authentication enabled then users may or may not be prompted for credentials.</li> </ul> </li> </ul>
Enabling NTLM Authentication on Firefox	<ul> <li>Firefox may always prompt for credentials even when logged on as an account in the "allow users" list; however, the following options can be set to try and avoid the prompt.</li> <li>Type "about:config" in Firefox's address bar and then click</li> </ul>

	ОК.
	<ul> <li>In the search/filter type: "network.automatic-ntlm-auth.trusted-uris"</li> <li>Double click the one item in the list and enter this into the dialog box (replacing servername with the name of your web server): <u>http://servername/PTAdmin</u></li> </ul>
	Notes: $\circ$ If the name of the administration web site is
	<ul> <li>ODDMAdmin" then use it instead of "PTAdmin".</li> <li>O If SSL was configured for the administration web site then use "https" instead of "http".</li> </ul>
SSL Configuration for NTP Software VFM Components	When SSL is enabled on the administration web site then the following components must be configured to use "https" instead of "http" to be able to access to the admin site.
	The format of the URL should be either:
	http://WebServer:80/PTAdmin/ODDMService.asmx
	(A port must be specified unless using port 80 which is the default port and is optional).
	https://WebServer:443/PTAdmin/ODDMService.asmx
	(A port must be specified unless using port 80 which is the default port and is optional).
	For each Task Service
	<ul> <li>Go to their installation directory, default is: "C:\Program Files (x86)\NTPSoftware\VFM\Task Service\<platform>"</platform></li> <li>Edit the MainConfig.xml file</li> <li>Change the <url> value to use https and include the port number if different than port 80.</url></li> <li>Save the file and restart the task service</li> </ul>
	For the Access and Recovery Portals and the PTFileIntranet sites
	<ul> <li>Go to their installation directory, default is: "C:\Program Files (x86)\NTPSoftware\VFM\<appname>"</appname></li> <li>Edit the Web.Config file</li> <li>Change "http" to "https" and include the port number if different theorem and be an an</li></ul>
	different than port 80 for each line found, there may be multiple lines, that contains the "ODDMService.asmx"

	text.
For Right-Click Data Movement (RCDM)	
	<ul> <li>Open the registry by running "regedt32"</li> <li>"HKEY_LOCAL_MACHINE\SOFTWARE\NTPSoftware\Right-Click Tiering\Data"</li> <li>Change the value for "OddmUrl" to use "https" and include the port number if different than port 80</li> <li>For this new setting to take effect you must close all Windows Explorers and Control Panel windows and then obtain a new Windows Explorer window.</li> </ul>
For Event-Driven Data Movement (EDDM)	
	<ul> <li>Go to its installation directory, default is: "C:\Program Files (x86)\NTPSoftware\VFM\EDDM"</li> <li>Edit the cseda.inf file</li> <li>Change the value for "OddmUrl=" to use "https" and include the port number if different than port 80</li> <li>Save the file</li> </ul>

## **About NTP Software**

NTP Software puts users in charge of their file data and is the only company providing file data management solutions that deliver all of the enterprise-class features needed to understand, manage, monitor, and secure file data completely. NTP Software is a global leader and has been chosen by the majority of Fortune 1000 companies and thousands of customers in private and public sectors for providing leadership through superior solutions, professional services, experience, and trusted advice. NTP Software delivers a single solution across the entire data storage environment, from individual

files and users to an entire global enterprise across thousands of systems and sites. NTP Software reduces the cost and complexity associated with the exponential growth of file data and is located on the web at <u>www.ntpsoftware.com</u>.

## **NTP Software Professional Services**

NTP Software's Professional Services offers consulting, training, and design services to help customers with their storage management challenges. We have helped hundreds of customers to implement cost-effective solutions for managing their storage environments. Our services range from a simple assessment to in-depth financial analyses.

For further assistance in creating the most cost-effective Storage Management Infrastructure, please contact your NTP Software Representative at 800-226-2755 or 603-622-4400.

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NTP Software 20A NW Boulevard #136 Nashua, NH 03063 Toll Free: 800-226-2755 International: 1-603-622-4400 E-mail: <u>info@ntpsoftware.com</u> Web Site: http://www.ntpsoftware.com

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