

Micro Focus File Reporter 3.6 Administration Guide

November 27, 2018

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About This Manual

This administration guide is written to provide network administrators the conceptual and procedural information for administering Micro Focus File Reporter.

- Chapter 1, "What's New," on page 9
- Chapter 2, "Overview," on page 15
- Chapter 3, "The Administrative Interface," on page 25
- Chapter 4, "Performing Setup Procedures," on page 31
- Chapter 5, "Scheduling and Performing File System Scans," on page 41
- Chapter 6, "Generating File System Reports," on page 57
- Chapter 7, "Content Scanning and Reporting," on page 101
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- Appendix E, "Glossary," on page 165
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Audience

This guide is intended for network administrators who manage network storage resources.

Feedback

We want to hear your comments and suggestions about this guide and the other documentation included with this product. Please use the User Comment feature at the bottom of each page of the online documentation, or go to www.novell.com/documentation/feedback.html and enter your comments there.

Documentation Updates

For the most recent version of the *Micro Focus File Reporter 3.6 Administration Guide*, visit the Micro Focus File Reporter Documentation website (http://www.novell.com/documentation/filereporter3).

Additional Documentation

For additional File Reporter 3.6 documentation, see the following guides at the Micro Focus File Reporter Documentation website: (http://www.novell.com/documentation/filereporter3)

- Micro Focus File Reporter 3.6 Installation Guide
- Micro Focus File Reporter 3.6 Database Schema and Custom Queries Guide

What's New

- Section 1.1, "New in Version 3.6," on page 9
- Section 1.2, "New in Version 3.5," on page 9
- Section 1.3, "New in Version 3.0," on page 10
- Section 1.4, "New in Version 2.6," on page 10
- Section 1.5, "New in Version 2.5," on page 11
- Section 1.6, "New in Version 2.0.2," on page 11
- Section 1.7, "New in Version 2.0.1," on page 12
- Section 1.8, "New in Version 2.0," on page 12

With each product update, Micro Focus File Reporter introduces significant architectural and feature enhancements. Starting with the release of Version 2.0, we have provided a timeline summarizing some of the more notable changes in architecture, performance, and features.

1.1 New in Version 3.6

Data Access Governance

This release introduces support for integration with Micro Focus Identity Governance 3.5 (IG 3.5) to provide an initial Data Access Governance solution. For details on configuration and setup of Data Access Governance, see the *Data Access Governance 3.6 Integration and Administration Guide*.

1.2 New in Version 3.5

File Content Scanning and Reporting

In addition to reporting on security and metadata, on files located on Windows storage devices, File Reporter can now report on the content of the files themselves. Through file content scanning, organizations can identify files containing specified patterns such as U.S. Social Security numbers, credit card numbers, or other user-defined patterns. Furthermore, these organizations can define and apply classifications and categories to these identified files.

File content reports that identify files containing personal, confidential, or sensitive information can be imported into Micro Focus File Dynamics where the location of these files can be remediated.

New Agents

A new AgentFS replaces the previous Windows Agent, now known as the legacy Agent for Windows. The latter is still available for serving as a Proxy Agent for OES storage devices. For file content scanning there is the new AgentFC.

Support for OES 2018

This includes the ability for OES 2018 servers to host File Reporter Linux Agents, as well as for File Reporter 3.5 to perform file system scans on OES 2018 servers.

1.3 New in Version 3.0

Micro Focus Branding

Micro Focus File Reporter 3.0 is the first File Reporter release to implement the Micro Focus branding elements. These are most apparent in the management and installation interfaces. In some cases, the names of files and folders have changed to reflect the new product name.

Scan Processor

This new .NET application greatly improves the rate at which scans are added to the database. The Scan Processor resides on the server hosting the Engine and is installed during the Engine installation process.

Direct Upgrading from Various 2.x Versions

You can upgrade to File Reporter 3.0 directly from versions 2.5, and 2.6.

Updated Analytic Tools

No longer offered as a "Technology Preview," these tools are now fully developed 64-bit applications. The Heat Map has been renamed to the more applicably descriptive Tree Map.

1.4 New in Version 2.6

Baseline and Previous Scans

Previous versions of Novell File Reporter 2 let you keep only the most recent File System and Permissions scans of a storage resource. With the release of Version 2.6, you can now designate a particular scan to be retained as a "Baseline scan" and keep the existing scan as a "Previous scan." This means that you can now retain up to three scans for each storage resource: a Baseline scan, a Previous scan, and a "Current scan." Any combination of two scans are the means of generating new built-in Historic Comparison reports being introduced in Version 2.6.

Historic Comparison Reports

This new built-in report lets you view the changes to a storage resource through a comparison of any two of the following scans: Baseline, Previous, or Current.

Historic Comparison reports include:

- · Historic File System Comparison reports
- Historic NCP Permissions Comparison reports
- Historic NTFS Permissions Comparison reports

Custom Query Report Designer Updates

The Custom Query Report Designer has been updated to support views for Previous and Baseline scan data, as well as a number of other updates and bug fixes.

Ability to Delete a Scan Immediately

A scan can be manually deleted immediately, or it can be marked for deletion at the next maintenance interval (by default, currently 12:00 midnight local time).

Ability to Copy a Report Definition

The ability to copy Report Definitions has been added to both the Web Application and the Report Designer. The Web Application is able to copy any report definition type, and the Report Designer is able to copy any Custom Query report definitions.

File Query Cookbook

Coinciding with the release of Novell File Reporter 2.6 is the introduction of a new collaborative community portal for accessing and sharing Custom Query reports. The SQL commands for these reports are included so all that you have to do is simply copy the commands and paste them into the Report Designer. In addition, sample report layouts (.repx files) are also included for some reports which can be opened via the Report Designer report layout interface. Both the SQL and the report layouts may be customized as needed. You can access the File Query Cookbook directly through the Report Designer interface, or at http://www.filequerycookbook.com (http://

1.5 New in Version 2.5

Custom Reports through Database Querying

In addition to the built-in report types, you can generate custom reports by crafting your own database query. The report data is extracted from the scan and generated into a report in delimited text format or a custom report layout via the new Report Designer.

Custom Query Report Designer

Custom query report data can be further customized for layout and presentation from a Windows workstation with the Report Designer.

Desktop Report Viewer

Stored reports can now be downloaded and viewed from a Windows workstation with the Report Viewer application.

Early Access to Analytic Tools in Development

The release of Version 2.5 includes early access to analytic features in a new tool set that can be run from a Windows workstation.

1.6 New in Version 2.0.2

Support for Microsoft SQL Server 2012

With the release of Novell File Reporter 2.0.2, supported databases now include both PostgreSQL and Microsoft SQL Server 2012. For procedures on properly configuring a new SQL Server 2012 instance that is compatible with Novell File Reporter, see the *Novell File Reporter 2.0.2 Installation Guide*.

Configuration Dashboard

A new configuration dashboard is the means of managing the product licensing and sequentially configuring and administering the database, Engine, and Web Application.

Reporting on Administrative Shares

Novell File Reporter can now report on administrative shares in Windows file systems.

Support for Microsoft Server 2012 R2

Novell File Reporter 2.0.2 fully supports Microsoft Server 2012 R2.

1.7 New in Version 2.0.1

Advanced Filtering

With the introduction of Novell File Reporter 2.0.1, you can use advanced filtering capabilities so that your File Data reports include only the data you want. Boolean filtering is available through a new **Filters** tab. For more information, see Appendix A, "Filtering," on page 147.

Microsoft DFS Namespace Support

Distributed File System (DFS) namespace technology helps Microsoft network administrators group shared folders located on different servers and presents them to users as a virtual tree of folders known as a namespace. Novell File Reporter now presents these namespaces as available storage resources that can be reported on.

1.8 New in Version 2.0

Advanced Architecture

To provide expanded reporting capabilities Novell File Reporter 2.0 was built on a new advanced architecture that supports:

- Simultaneous integration with eDirectory and Active Directory
- An SQL database
- Web-based administration

Easier Configuration and Management

All of the complex DSI installation and configuration tasks have been replaced with a simple installation and configuration wizard. Once installed, all management tasks are performed through a browser-based interface.

New Reporting Capabilities

Novell File Reporter 2.0 has a much stronger tie-in to network directory services. File Reporter 2.0 authenticates to a primary identity system (either eDirectory or Active Directory) and then through a proxy, establishes a connection to the other identity system. You can be connected to one Active Directory domain and many eDirectory trees at the same time.

New Reports

In addition to the extensive file report types in Version 1, Novell File Reporter 2.0 introduces:

 Permissions reports that identify who has access to a particular file or the access rights of a particular user

- Trending reports that show the growth of data on a Novell volume or Windows share over a period of time
- Detail reports that are specific to an individual user, file type, file, and more
- Aggregate reports that report on file and folders located on storage resources in eDirectory and Active Directory

This section provides an understanding of Micro Focus File Reporter, the supported databases, the Engine, and Agents, along with how reports and analytics information are generated.

- Section 2.1, "Micro Focus File Reporter," on page 15
- Section 2.2, "How File Reporter Works," on page 15

2.1 Micro Focus File Reporter

Micro Focus File Reporter inventories network file systems and delivers the detailed file storage intelligence you need to optimize and secure your network for efficiency and compliance. Engineered for enterprise file system reporting, File Reporter gathers data across the millions of files and folders scattered among the various network storage devices that make up your network. Flexible reporting, filtering, and querying options then present the exact findings you need so you can demonstrate compliance or take corrective action.

File Reporter identifies files currently stored on the network, the size of the files, whether these files contain personal or other sensitive information, when users last accessed or modified the files, the locations of duplicate files, and more. File Reporter can also help you calculate department or individual storage costs. File Reporter can even identify access rights to folders and consequently, the files that are contained within.

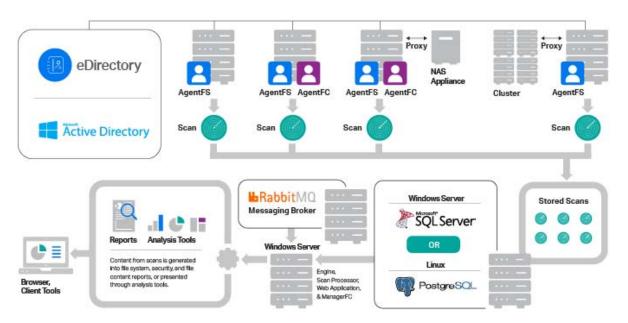
2.2 How File Reporter Works

- Section 2.2.1, "Core Components," on page 16
- Section 2.2.2, "File System Scanning," on page 17
- Section 2.2.3, "File Content Scanning," on page 18
- Section 2.2.4, "Reporting," on page 19
- Section 2.2.5, "Client Tools," on page 21

File Reporter was developed to examine, report and analyze file systems containing petabytes of data—in other words, millions of files, folders and volumes, scattered among the various storage devices that make up your network. This reporting includes file content and the associated rights of these files, folders, and network volumes or shares.

To examine, report, and analyze this data efficiently, File Reporter disperses the work among a Web application, Engine, Agents, a Scan Processor, either a PostgreSQL or Microsoft SQL Server database, and either eDirectory or Active Directory.

Figure 2-1 File Reporter Work Process



2.2.1 Core Components

The following are core components of Micro Focus File Reporter.

Web Application

The Web application runs on top of Microsoft Internet Information Services (IIS) and is the means of all administrative interaction. Among other things, the Web application is responsible for:

- Management of scan policies and report definitions
- · Generating Preview reports
- Access to stored reports
- All other management functions

Engine

The Engine is the mechanism that runs File Reporter and runs from a Windows Server host. The Engine does the following:

- Schedules the scans that the Agents conduct
- · Compiles scans for inclusion in a report
- Runs scheduled reports
- Manages scan delegations to Agents
- · Sends notifications that File Reporter has completed a scan or generated a report

Database

The database stores information needed for generating reports. This information includes:

- Cached Active Directory and eDirectory objects
- Scans
- Identity system information such as names of eDirectory trees and Active Directory domains and forests
- Schedule information pertaining to scans and reports
- Notification information
- Report definitions
- Scan history
- Scan policies
- Volume free space

2.2.2 File System Scanning

The following are components associated with file system scanning.

Scan Processor

The Scan Processor does the following:

- Processes file system scan files
- Updates file system scan information in the database

Agents

Agents are compact programs that can run on Micro Focus Open Enterprise Server and Microsoft Windows Server hosts. Agents can examine and report on NSS and NTFS file systems. Additionally, Agents examine and report on file system security, including file and folder rights, trustee assignments, and permissions. For more information, see Appendix D, "Agent Scan Capabilities," on page 159.

IMPORTANT: For optimal results, you should install an Agent on every server that has a volume or share you want to report on.

Agents cannot be installed on NAS devices or clustered hardware devices. For File Reporter to report on these type of devices, Agents can be set up as proxy agents.

File Reporter includes the following file system Agents:

- AgentFS: Windows file system Agent that in most cases should replace any previous File Reporter Agents on Windows Server hosts. AgentFS performs file system scans (rather than file content scans) on Windows storage devices.
- Legacy Agent for Windows: Previous File Reporter Agent for performing file system scans on Windows Server hosts. You should only use this Agent when you need an Agent hosted on a Windows Server to function as a Proxy Agent for a Micro Focus Open Enterprise Server (OES) or NetWare server, as AgentFS cannot perform that function.

 Agent for OES Linux: Micro Focus OES hosted Agent that performs file system scans on OES or NetWare servers.

Scans

Through one of the file system Agents (AgentFS, legacy Agent for Windows, or Linux Agent), File Reporter scans a storage resource. A storage resource can be a Micro Focus (formerly Novell) network server volume or a Microsoft network share.

File system scans are indexed data that are specific to a storage resource. They are the means of generating a storage report or the means of analyzing data using the analytics tools. File system scans include comprehensive information on the file types users are storing, when files were created, when they were last modified, permission data on the folders where these files reside, and much more.

File Reporter collects file system scans from the Agents and sends them to the Engine. The Engine then sends the scans to the Scan Processor, which stores the scans in the database.

You can conduct scans at any time, but we recommend using a scheduled time after normal business hours to minimize the effect on network performance.

NOTE: Procedures for performing scans are documented in Chapter 5, "Scheduling and Performing File System Scans," on page 41.

2.2.3 File Content Scanning

The following are components associated with file content scanning.

ManagerFC

The ManagerFC service is responsible for the execution and management of file scan jobs. The service performs the following tasks when processing a scan job:

- · Enumeration of files in target paths
- · Submission of files to scan queues in the message broker based on filter criteria
- Processing of scan results and update of result data to the database and scan result files

AgentFC

AgentFC performs file content scans. AgentFC is hosted only on a Windows Server and performs content scans only on files stored on Windows storage devices.

Scans

Through AgentFC, the RabbitMQ messaging broker, and ManagerFC, File Reporter performs, classifies, and categorizes file content scans. For example, content scans can identify files containing specified patters such as U.S. Social Security or credit card numbers.

2.2.4 Reporting

When File Reporter has a file system or file content scan, you can utilize it to generate a report. You can generate reports through the following means:

- Built-in Reports
- Custom Queries

Built-in Reports

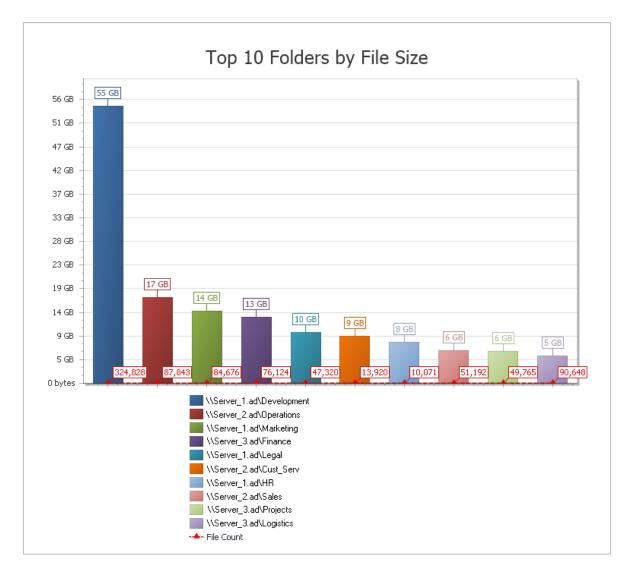
Generating a built-in report is as simple as selecting the report type from a menu.

To generate a report, the Engine takes all of the needed scans that are applicable to the specifications of the report and consolidates them into a single report by indexing the applicable scans.

File System Reports	Security Reports	Trending Reports
Folder Summary	Assigned NCP Permissions	Volume Free Space
Detail Reports	Assigned NTFS Permissions	
File Extension	Permissions by Path	
Duplicate Files	Permissions by Identity	
Date-Age	Historic NCP Permissions Comparison	
Owner	Historic NTFS Permissions Comparison	
Storage Cost		
Comparison		
Directory Quota		
Historic File System Comparison		

Table 2-1 Built-in Report Types

File Reporter lets you present built-in reports in various formats including PDF, Microsoft Excel, RTF, HTML, TXT, and CSV. The product also includes built-in graphs for certain report types.



Custom Query Reports

These reports allow administrators who are familiar with querying the database to generate very specific report data that might not be available through one of the built-in report types.

Custom Query report data can be further customized for layout and presentation from a Windows workstation with the Report Designer.

File content reports are delivered as Custom Query reports.

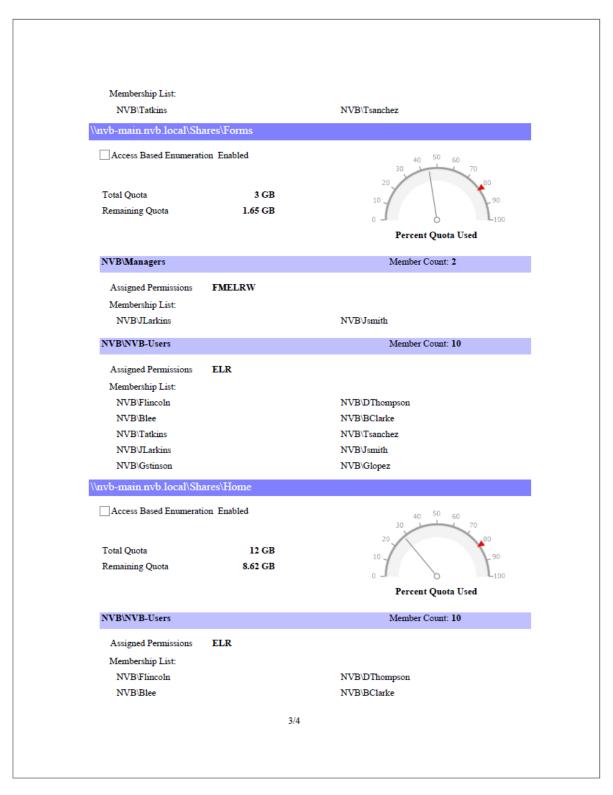


Figure 2-3 Page from a Custom Query Report Designed with the Report Designer.

2.2.5 Client Tools

File Reporter provides the following Client Tools, designed to be run from a Windows workstation.

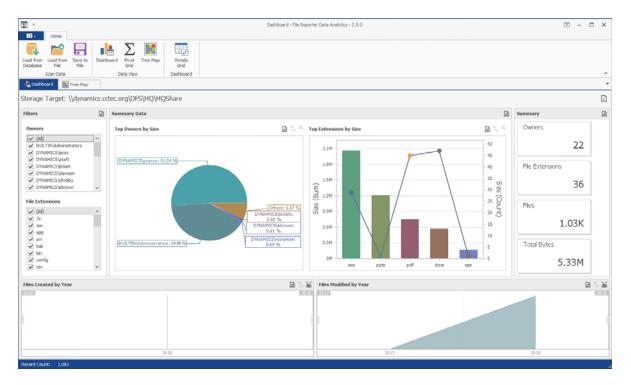
Data Analytics

In addition to extensive reporting options, File Reporter provides the ability to graphically analyze file system data using a variety of analytics tools that are available to administrators through the Client Tools.

Dashboard

The Dashboard lets you graphically analyze data from file system scans according to the filters that you specify.

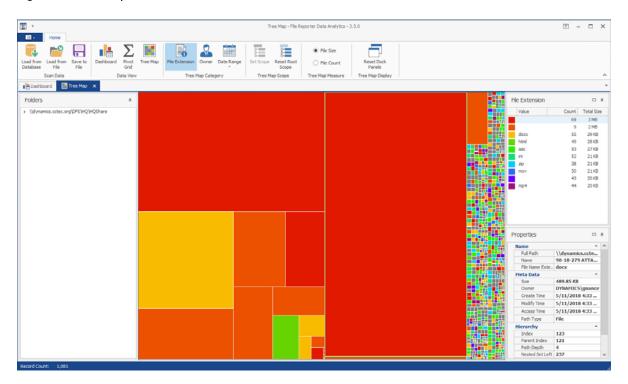




Tree Map

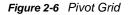
The Tree Map lets you view graphical representations of hierarchical file system data and in the process, gain insight very quickly.

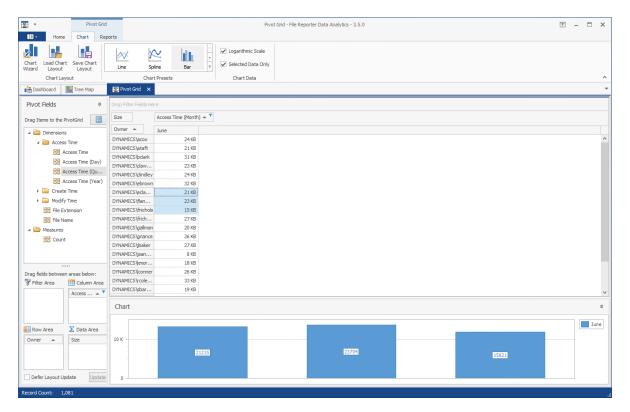
Figure 2-5 Tree Map



Pivot Grid

The Pivot Grid gives you the ability to visually analyze data according to combinations of variables.

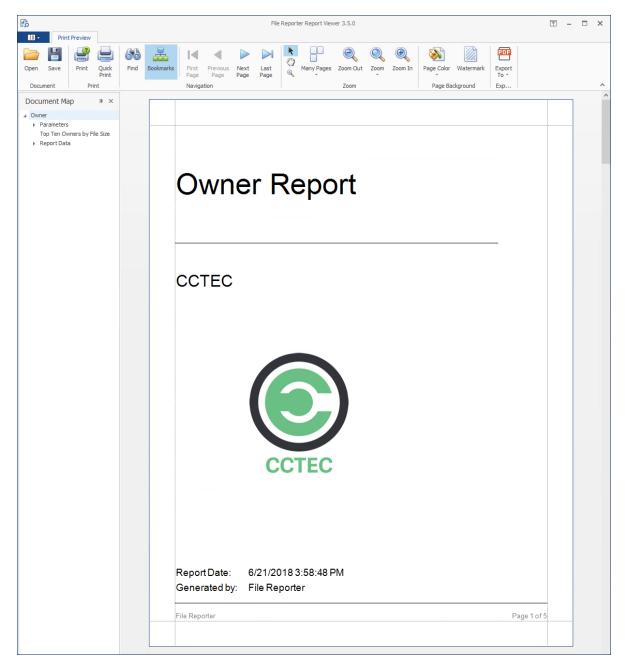




Report Viewer

The Report Viewer lets you to view all stored reports locally from a Windows workstation. Because the Report Viewer utilizes the resources of the Windows workstation, rather than those of the Engine, the Report Viewer can display stored reports much faster in most instances.

Figure 2-7 R	eport Viewer
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- Section 3.1, "Supported Browsers," on page 25
- Section 3.2, "Launching the Administrative Interface," on page 25
- Section 3.3, "Using the Administrative Interface," on page 27

3.1 Supported Browsers

Micro Focus File Reporter is managed through a Web browser-based interface and is supported on the latest versions of the following browsers:

Table 3-1	Supported Browsers
-----------	--------------------

Windows	Linux	Mac OS X
Firefox	Firefox	Firefox
Chrome		Chrome
Edge		

3.2 Launching the Administrative Interface

1 In the browser's address bar, type:

https://file_reporter_web_server_dns_name

The DNS name is the one you created in "Micro Focus File Reporter 3.6 Installation Guide." You must enter the DNS name. You cannot log in with an IP address. The login screen appears.

::: F	R
+ + + + + + + + + + + + + + + + + + +	
_	Password LOG IN

2 Enter the username and password of a member of the SRsAdmins group that you created and click Log In.

If you are authenticating to Active Directory, the username can be entered in any of the standard Active Directory formats:

domain\SAMAccountName (AD\User1)

UPN(user1@ad.test.lab)

LDAP(CN=user1,OU=home,DC=ad,DC=test,DC=lab)

With LDAP, there may be partial case sensitivity, especially with the domain (DC=) components.

If you are authenticating to eDirectory, the username must be entered in typeless FDN:

admin.mcirofocus

The File Reporter Home page appears:

		HOME NOTIFICATIONS SYSTEM C	ONFIGURATION		
~	General	Scans		Repo	rts
Version Info		File System Scan Policies	0	Report Definitions	8
Web Application	3.5.0.30	Scans In Progress	0	Report Generation	
Engine	3.5.0.16	# Scans Last Day	0	Reports In Progress	0
Scan Processor	3.5.0.2	# Scans Last Week	0	# Stored Reports	
Operating System	Microsoft Windows Server 2016 Standard	File System Agents		Stored Report Storage	
Database	SQL Server 14.0.1000.169	Total Agents	2	Bytes In Use	Not available
License Info		File System Scans Data Path		Free Bytes Remaining	Not available
License Type	Production	Total Space	99.51 GB		
Identity System	DYNAMICS.CCTEC.ORG	Free Space	73.95 GB		
Expiration Date	5/25/2019	August 6 20 / Provide und			
Licensed Features	1030202030	File Content			
· Active Directo	ry Reporting	Job Definitions	0		
 eDirectory Rej 		Classifications	4		
 Content Analy NSS AD Support 		Search Patterns	0		
	47.9	Agents	0		
Server Local Time					
Current Time	2018-06-07 12:28:00 PM				
Time Zone	Eastern Daylight Time (UTC -04:00)				

3.3 Using the Administrative Interface

- Section 3.3.1, "Viewing Notifications," on page 27
- Section 3.3.2, "Configuring the Web Interface," on page 28
- Section 3.3.3, "Viewing System Information," on page 29

All tasks are conducted by selecting an option from one of the menus at the top of the page.

The Main menu provides access to notifications and system information. The File Systems menu is the means to setting up and viewing the progress of file system scans. The File Content menu provides options for setting up and conducting file content scans. The Reports menu is the means of generating and accessing reports. The Configuration menu is the means of establishing and modifying configuration settings within File Reporter.

3.3.1 Viewing Notifications

File Reporter displays notifications for successfully completed scans, failed scans, completed reports, failed reports, errors, warnings, and other information. You can use the filtering options to list only the notification types you want.

1 From the Main menu, select Notifications.

					HOME NOTIFICATIONS	S	SYSTEM CONFIGURATION	N
G	Refresh							
		here to	group by that column					
Seve	erity		Timestamp	+	Status		Category	Message
		Τ	•	т	7	r	Т	т
9	Success		6/7/2018 2:53:59 PM		(0) Operation successful.		Scan	The File System Data Scan for target '\dynamics.cctec.org/DFS\Atlanta\AtlantaShare' with Id '5' completed successfully
•	Info		6/7/2018 2:53:39 PM		(0) Operation successful.		Scan	The scheduled data scan for storage path \\dynamics.cctec.org\DFS\Atlanta\AtlantaUsers was canceled by an administrator.
Ð	Info		6/7/2018 2:53:39 PM		(O) Operation successful.		Scan	The scheduled data scan for storage path \\dynamics.cctec.org\DFS\Atlanta\AtlantaShare was canceled by an administrator.
0	Success		6/7/2018 2:53:28 PM		(0) Operation successful.		Scan	The Permissions Scan for target \del{target} with Id '4' completed successfully
0	Success		6/7/2018 2:47:14 PM		(0) Operation successful.		Scan	The Permissions Scan for target \del{target} with Id '3' completed successfully
•	Error		6/7/2018 2:38:00 PM		(1038) The specified agent name could not be found.		Scan	The scheduled data scan for storage path (\dynamics.cctec.org\DFSVAtianta\AtlantaUsers (Scan ID 2) was unable to complete. The following error occurred: (1038) The specified agent name could not be found. There are 2 retry attempts remaining. The next attempt will be made in 3600

Like many pages in the administrative interface, you can modify the current display.

- 2 (Optional) Display columns in the order you want by dragging them to the desired location.
- 3 (Optional) List the most recent notification by clicking twice the column heading.
- 4 (Optional) Filter the notifications to display only the information you want:
 - **4a** At the desired column heading, click the "pin" icon.
 - For example, the Message column.
 - **4b** Select the desired filter option. For example, **Contains**.

4c In the field to the left of the "pin" icon, enter the distinguishing word or letter for the filter. For example, Permissions.

The page is updated according to the filtering parameters.

	HOME NOTIFICATIONS	SYSTEM CONFIGURATIO	N
o group by that column			
Timestamp	Status	Category	Message
- T	τ	Ť	Permissions
6/7/2018 2:47:14 PM	(0) Operation successful.	Scan	The Permissions Scan for target \\dynamics.cctec.org\DFS\London\LondonUsers' with Id '3' completed successfully
6/7/2018 2:53:28 PM	(0) Operation successful.	Scan	The Permissions Scan for target '\dynamics.cctec.org\DFS\London\LondonUsers' with Id '4' completed successfully
6/7/2018 1:47:53 PM	(1027) Unable to communicate with the agent.	Scan	The scheduled permissions scan (Scan ID 3) for storage path (Mdynamics.cete.org/IDFSL.ondon/LondonUsers was unable to complete. The specified agent could not be reached. There are 3 retry attempts remaining. The next attempt w be made in 3547 seconds.
ssage], 'Permissions')			Cie
	6/7/2018 2-53-28 PM 6/7/2018 2-53-28 PM 6/7/2018 1-47-53 PM	6/7/2018 2-47.14 PM O/ Operation successful. 6/7/2018 2-55.28 PM (0) Operation successful. 6/7/2018 1-47.53 PM (0) Operation successful.	• • • • • • • • • • • • • • • • • • •

3.3.2 Configuring the Web Interface

After 20 minutes of inactivity in the administrative interface, you are required to log in again. You can adjust this setting and specify the number of items displayed per page through the **Web Application** option of the **Configuration** menu.

1 From the Configuration menu, select Web Application.

FR	MAIN FILE SY	STEMS FILE CONT	ENT REPORT	rs configura			Ę	DYNAMICS\Administrator
	IDENTITY SYSTEMS	STORAGE RESOURCES	FILE CONTENT	STORED REPORTS	NOTIFICATIONS	ENGINE LOGS	FILE MANAGEMENT	WEB APPLICATION
D	splay Options							
Gri	I Page Size 50	rows Note: This set	ing applies to the cu	rrent browser only.				
Se	ession Options							
	hentication Timeout ort Page Execution Timeout	20 minu 900 seco		ting will not affect any	current authenticated	sessions.		
	_	<u> </u>						
	APPLY							
				Copyright 2018 © Con	drey Corporation			

- 2 In the Grid Page Size field, specify the number of entries you want displayed.
- 3 In the Authentication Timeout field, specify the minutes of inactivity before you will need to log in again.

- 4 Click Apply.
- **5** When you are notified that the Web interface configuration was saved, click **OK**.

3.3.3 Viewing System Information

When you work with a Micro Focus Support representative to diagnose the source of a problem, you might be asked to access the System Info page. To do so, simply select **System Configuration** from the **Main** menu.

R MAIN FILE SYS	TEMS FILE CONTENT REPORTS CONFIGUE	RATION			Å DYNAMICS\Ad	lministr	ator
	HOME NOTIFICATION	SYSTEM CONFIGURATION					
Database Statistics		Referenced Web Application	n Assemb	lies			
Database Version String	Microsoft SQL Server 2017 (RTM) - 14.0.1000.169 (X64 Aug 22 2017 17:04:49 Copyright (C) 2017 Microsoft Corporation	4) Name	† Ver	ion	Processor Architecture		
Database Total Size	Standard Edition (64-bit) on Windows Server 2016 Standard 10.0 <x64> (Build 14393:) (Hypervisor) 83.886.080 bytes</x64>		Ψ.	т		Τ	
Database Host Address Database Name Database Schema Version	172.17.2.21 srsdb 3.5.0.1	AlphaFS	2.2.	0.0	None		^
Scans		Condrey.Srs.Core	3.5.	0.2	None		
Total Size of Scans File System Metadata Scans Permision Scans	1,400,832 bytes 2 2	Condrey.Srs.CoreExt	3.5.).9	None		
Volume Trend Scans	0	Condrey.Srs.Product	3.5.	0.5	None		
Identity System Data Identity Systems Count Identity System Cached Objects	3 44	Condrey.Srs.ReportLibrary	3.5.	0.1	None		~
Identity Systems Size	442,368 bytes	<				>	

4 Performing Setup Procedures

Before you can start scanning storage resources and generating reports, you first need to perform some setup procedures.

- Section 4.1, "Enabling Other Identity Systems," on page 31
- Section 4.2, "Viewing Storage Resources," on page 35
- Section 4.3, "Assigning Proxy Targets," on page 37
- Section 4.4, "Configuring Notifications," on page 38
- Section 4.5, "Integrating with File Dynamics or Storage Manager," on page 40

4.1 Enabling Other Identity Systems

- Section 4.1.1, "Enabling eDirectory," on page 31
- Section 4.1.2, "Enabling Active Directory," on page 33

Your license file for File Reporter is either for Active Directory or eDirectory. If the File Reporter license file is for Active Directory, then Active Directory is the primary identity system. If the license file is for eDirectory, then eDirectory is the primary identity system.

File Reporter lets you enable other identity systems so that you can scan and report on the storage resources that are within those systems.

- Section 4.1.1, "Enabling eDirectory," on page 31
- Section 4.1.2, "Enabling Active Directory," on page 33

4.1.1 Enabling eDirectory

File Reporter allows you to enable multiple eDirectory trees as identity systems.

IMPORTANT: If you have Universal Passwords set up for all users in your tree, you must have the proper settings for File Reporter to work. Refer to "Micro Focus File Reporter 3.6 Installation Guide" for more information.

IMPORTANT: If your primary identity system is Active Directory and you want to enable eDirectory, you must first install the Client for Open Enterprise Server on the Windows server that is hosting the Engine.

1 Select Configuration > Identity Systems.

uthenticated
u

2 Click Add.

Add eDirectory Identity System			
eDirectory Authentication:			
Default Server Address:			
Username:			
Password:			
Tree Name:			
Proxy Object FDN:			
Assign Supervisor rights to [Root]	for Proxy Account		
		ок	CANCEL

Default Server Address: Specify the IP address of any server in the directory tree.

Username: Use typeless FDN format naming to specify an administrator name.

Password: Specify the administrator password.

Tree Name: Specify the name of the eDirectory tree.

Proxy Object FDN: Use typeless FDN format naming to specify a name for the proxy object that you are creating.

For example, MFRProxyObject.system

Assign Supervisor rights to [Root] for Proxy Account: Leaving this check box selected enables File Reporter to scan all volumes in the directory tree. If you deselect this option, the Agent can scan only those volumes to which the File Reporter proxy object has been given supervisor rights.

When this option is deselected, storage resources might not build properly.

We therefore recommend that this option remain selected.

3 Complete the fields and click OK.

The eDirectory identity system is added.

🕀 Add	😢 Delete	Set Default Server for eDirectory	Reset Proxy Account Password	S Refresh		
		roup by that column				
	Primary	Name	Туре	Default Server	Proxy Credentials	Authenticated
0	0	dynamics.cctec.org	Active Directory			۲
0		CCTEC_TREE	eDirectory	172.17.2.22	CN=srsproxy.O=system	

4 (Optional) Repeat these steps to add additional eDirectory identity systems.

4.1.2 Enabling Active Directory

File Reporter allows you to enable only one Active Directory forest as an identity system.

1 Select Configuration > Identity Systems.

5	MAIN FILI	E SYSTEMS FILE CONTEN	T REPORTS CONFIG	URATION					\mathbb{A} admin.system
	IDENT	TITY SYSTEMS STORAGE RESOL	IRCES FILE CONTENT ST	ORED REPORTS	NOTIFICATIONS	ENGINE LOGS	FILE MANAGEMENT	WEB APPLICATION	
🔂 Add	O Delete	Set Default Server for eDirectory	Reset Proxy Account Password	G Refresh					
Drag a colum	n header here to gr	roup by that column							
	Primary	Name	Туре	Default Server		Proxy Credentials			Authenticated
0	۲	CCTEC_TREE	eDirectory	172.17.2.22					۲
				right 2018 © Condre					

- 2 Click Add.
- 3 In the Identity System Type region, click the Active Directory option.

Add Identity System	
Identity System Type:	Active Directory
Domain Administrator (edentials:
Username:	
Password:	
Forest Root:	dynamics.cctec.org
Proxy User:	DYNAMICS\
Proxy Rights Group:	DYNAMICS\
	OK CANCEL

Username: Specify a username for an administrator in Active Directory.

Password: Specify the password for the administrator.

Forest Root: Because the Windows Engine host server is already part of a domain, the forest name is entered automatically.

Proxy User: Name the proxy user.

For example, srsproxy.

Proxy Rights Group: Name the proxy rights group.

For example, srsproxyrights.

4 Click OK.

The Active Directory identity system is added.

🕀 Add	😫 Delete	Set Default Server for eDirectory	Reset Proxy Account Password	Refresh		
irag a colur	nn header here to g	roup by that column				
	Primary	Name	Туре	Default Server	Proxy Credentials	Authenticated
0	0	CCTEC_TREE	eDirectory	172.17.2.22		 Image: A second s
0		dynamics.cctec.org	Active Directory		DYNAMICS\srsproxy	0

4.2 Viewing Storage Resources

When an identity system has been enabled, the associated storage resources, which include Micro Focus volumes and Microsoft shares, are available for scanning and reporting.

File Reporter cannot see a Windows network disk drive that is not shared.

1 Select Configuration > Storage Resources.

IDENTITY SYSTEMS	STORAGE RESOURCES	FILE CONTENT STORED R	EPORTS NOTIFICATIONS EN	IGINE LOGS FILE MANAGEMENT	WEB APPLICATION
Rebuild 🔘 Cancel Rebuild 😽 Refresh					
Identity System	In Progress	Discovery Strategy	Rebuild Start Time	Rebuild Total Time	Rebuild Status
CCTEC_TREE		Containers	6/11/2018 10:58:44 AM	00:00:00	0
		2.22		00:00:00	
dynamics octas ara					
dynamics.cctec.org		Containers	6/11/2018 12:00:00 AM	000000	0
dynamics.cctec.org		Containers	6/11/2018 12:00:00 AM	00000	0
dynamics.cctec.org		Containers	6/11/2018 12:0000 AM	000000	U

2 Select a check box pertaining to one of the listed eDirectory trees or Active Directory forests.

The **Rebuild** button is enabled, allowing you to rebuild the storage resources for the selected eDirectory tree or Active Directory forest. You should rebuild the storage resources whenever you add a new server.

- 3 (Optional) Click Rebuild to rebuild the storage resources for the eDirectory tree or Active Directory forest.
- 4 Click one of the listed eDirectory trees or Active Directory forests.

R MAIN FI	LE SYSTEMS FILI	E CONTENT REPORTS	CONFIGURATI	ON				A DYNAMICS	\Administrato
	IDENTITY SYST	EMS STORAGE RESOURCES	FILE CONTENT	STORED REPORTS	NOTIFICATIONS EF	NGINE LOGS	FILE MANAGEMENT	WEB APPLICATION	
Discovery Options	Schedule Rebu	III Rebuild Only Selected Server	s 😋 Refresh						
Resource		Operating System	FDN	File System	n Last Update		Last Update Attempt	Last Status	
• 🔲 📲 ССТЕСЗ		Open Enterprise Server	CN=co	tec3.0U≕i	6/11/2018 1-55:3	53 PM	6/11/2018 1:55:33 PM	2	
<									,
				opyright 2018 © Condr					

All of the servers in the selected eDirectory tree or Active Directory forest are displayed.

5 Click each button to view options.

Discovery Options: For large organizations with eDirectory trees or Active Directory forests spanning multiple geographic areas, rebuilding the storage resources can take many hours. Rather than rebuilding the storage resources for the identity system, you can select this to create a scope that specifies just those new containers or servers that need added.

Storage Resource Discovery Options - dynamics.cctec.org						
Scope by Container List	O Scope by Server List					
Container FDN						
No Containers defined. T	New he entire dynamics.cctec.org forest will be searched.					
	ок сл	ANCEL				

Select whether to specify the servers through a container FDN or server FDN, then click New to enter the paths. Specify the FDN path and click Update. When all of the paths you want to be searched are listed, click OK.

Schedule: By default, File Reporter rebuilds the identity system's storage resources at 12:00 AM each day. Larger sites might want change this setting to weekly or on a specific day of the month. To do so, click this option and modify the settings in the dialog box.

Rebuild: Clicking this button automatically rebuilds the identity system's storage resources.

Rebuild Only Selected Servers: Use this option to rebuild the selected servers.

Refresh: Refreshes the resource list.

6 Click the > for each server to browse the storage resources.

		IDENTIT	TY SYSTEMS	STORAGE RESOURCES	FILE CONTENT	STORED REPO	RTS NOTIFI	CATIONS ENGINE LOGS	FILE MANAGEMENT	WEB APPLICATION	
Dis	overy Options	Schedule	Rebuild	Rebuild Only Selected Serve	rs 🕄 Refresh						
	Resource			Operating System		FDN	File System	Last Update	Last Update Att	empt Last!	Status
	CCTEC3			Open Enterprise Server		CN=cctec3.0U=	E .	6/11/2018 1:55:33 PM	6/11/2018 1:55:	33 PM 🥹	
	SMPROX	HOME					Ext3				
	VOL1						NSS				
	VOL2						Xfs				

4.3 Assigning Proxy Targets

File Reporter does not include a NetWare Agent. Furthermore, an Agent cannot be deployed on a NAS device or server cluster. Additionally, only one Agent type (Legacy Agent, AgentFS, or AgentFC) can be hosted on a server. Finally, some organizations might not want Agents deployed on every server. In situations such as these, you can have a deployed Agent on another server function as a proxy agent.

1 Select File Systems > Scan Agents.

All of the Agents are listed.

	1 C		ITENT RE	PORTS CON				유 DYNAMICS\Administrat
			SCAN TA	RGETS SCAN F	POLICIES SCAN DATA SCANS IN PROGRESS	SCAN HISTORY SCAN A	GENTS	
Assign Prox	vy Targets 🛛 🖸 Delete	Refresh						
irag a column	header here to group by that column							
	Agent Server	Ť	Version	Agent Type	Identity System Support	Last Heartbeat	Proxy Count	Status Message
	cctec2.dynamics.cctec.org		3.5.0.21	AgentFS	Active Directory	6/11/2018 3:58:37 PM	٥	
T Create								

2 Select the Agent you want to set up as a proxy agent and click Assign Proxy Targets.

creation T creation T creation T creation T Windows dynamics.cctec.org Windows dynamics.cctec.org	Image: Contract of the second of the seco	Server	↑ T Ser	ver Type	T	Identity System	
cctec1.dynamics.cctec.org Windows dynamics.cctec.org	1 dynamics.cctec.org		1, 561	ver type	,	ideniny System	
			T		T		
		cctec1.dynamics.cctec.org	Win	dows		dynamics.cctec.org	
or ca							
or ca							
or ca							
or ca							
or ca							
or ca							
or ca							
or ca							
or ca							
OK CAN							
	OK CAN						

3 Select the proxy targets and click **OK**.

4.4 Configuring Notifications

Notification parameters specify what types of notifications are listed and how email notifications are sent.

1 Select Configuration > Notifications.

FR	MAIN	FILE SYSTEMS	FILE CONTEN	T REPORT	S CONFIGUE			۾ A D	YNAMICS\Administrator		
	IDENTITY SY	STEMS STORAGE	RESOURCES FILE	CONTENT S	TORED REPORTS	NOTIFICATIONS	ENGINE LOGS	FILE MANAGEMENT	WEB APPLICATION		
N	otificatio	n Settings									
	Only notify me about events of at least this severity level: Success										
Day	Days to display notifications in the dashboard: 30										
	Enable Mail Notifications										
M	Mail Settings										
Mail	Server:	IP Address or Host	name								
Port		25									
	nection Type:		•								
Fror	n Email Address:	noreply@cctec.org									
	Use Authentica	ation									
	Username: mai	iluser									
	Password:										
Min	utes to buffer mu	Itiple notications for a	single email: 1	÷							
SA	VE CHANGES										
				Сор	oyright 2018 © Con	drey Corporation					

Only notify me about events of at least this severity level: This field lets you specify the severity level of events that are recorded and displayed in the Notifications page and through email notifications.

The severity levels are listed from lowest to highest, with Success being the default setting.

If you change the severity level, File Reporter records and displays only the events for that severity level and higher. Older notifications from formerly recorded severity levels continue to be displayed in the Notifications page. For example, if you change the setting from **Success** to **Warning**, only warning and error events are recorded, but the formerly recorded success and info events are still displayed, unless you filter them out.

To avoid receiving emails for every successful event, you should modify this setting to a more restrictive level.

Days to display notifications in the dashboard: This field indicates the number of days an event is listed in the Notifications page.

Enable Mail Notifications: Clicking this activates the fields in the **Mail Settings** region of the page.

Email notifications are sent to all members of the SrsAdmins group. File Reporter finds each member's email address from the primary identity system.

Mail Server: Specify the IP address or hostname of the mail server to use for sending the email notifications.

Port: Specify the port number used by the mail server.

Connection Type: Specify the encryption type used by the mail server.

From Email Address: Specify the address you want displayed in the **From** field of the email notifications that are sent.

Use Authentication: If your mail server requires authentication, select this.

Username: Specify the mail server username.

Password: Specify the mail server password.

Minutes to buffer multiple notifications in a single email: File Reporter can consolidate messages into a single email notification. If you change this setting to 5, File Reporter consolidates all of the events that took place in 5 minutes and emails you a notification.

2 Specify your notification parameters and click Save Changes.

4.5 Integrating with File Dynamics or Storage Manager

If you have Micro Focus File Dynamics or Micro Focus Storage Manager deployed, you can use Micro Focus File Reporter to report on File Dynamics or Storage Manager policies. Before you can do so, you must first specify the server address and port number of the server hosting the File Dynamics or Storage Manager Engine.

IMPORTANT: File Reporter 3.6 integrates with File Dynamics 6.0 and above and Storage Manager 5.0 or above.

1 Select Configuration > File Management.

FR	MA	IN FILE SYSTE	MS FILE CONTENT	REPORTS	CONFIGURATION	4			A DYNAMICS\Administrator
		IDENTITY SYSTEMS	STORAGE RESOURCES	FILE CONTENT	STORED REPORTS	NOTIFICATIONS	ENGINE LOGS	FILE MANAGEMENT	WEB APPLICATION
6	Refresh								
E	ngine	Communica	tion						
Ser	ver Address								
Por	t	3009	0						
S/	VE CHAN	GES							
					Copyright 2018 © Cond	frey Corporation			

- 2 Specify the IP address or DNS name of the server hosting the File Dynamics or Storage Manager Engine.
- **3** Specify the port number that the Engine is using.

The default port number is 3009.

4 Click Save Changes.

5 Scheduling and Performing File System Scans

- Section 5.1, "Scans," on page 41
- Section 5.2, "Adding a Scan Target," on page 42
- Section 5.3, "Removing a Scan Target," on page 44
- Section 5.4, "Creating Scan Policies," on page 44
- Section 5.5, "Establishing a Baseline Scan," on page 49
- Section 5.6, "Clearing a Baseline Scan," on page 50
- Section 5.7, "Editing a Scan Policy," on page 50
- Section 5.8, "Deleting a Scan Policy," on page 50
- Section 5.9, "Scheduling Scans," on page 50
- Section 5.10, "Editing a Scheduled Scan," on page 52
- Section 5.11, "Clearing a Schedule on a Scheduled Scan," on page 52
- Section 5.12, "Conducting an Immediate Scan," on page 52
- Section 5.13, "Viewing Scans in Progress," on page 52
- Section 5.14, "Retrying Failed Scans," on page 53
- Section 5.15, "Viewing Scan Data," on page 54
- Section 5.16, "Viewing Scan History," on page 54
- Section 5.17, "Troubleshooting a Failed Scan," on page 55

5.1 Scans

Through a Legacy Agent or AgentFS, Micro Focus File Reporter takes a file system "scan" of the file system's storage resource at a given moment. A storage resource can be a Micro Focus network server volume or Microsoft network share.

File system scans are indexed data that are specific to a storage resource. They are the means of generating a storage report or analytics views. Scans include comprehensive information on the file types users are storing, when files were created, when they were last modified, permission data on the folders where these files reside, and much more.

File Reporter collects file system scans from the Agents, compresses them, and sends them to the Engine, where the Scan Processor takes them and uploads them to the database.

File system scans can be taken at any time, but we recommend using a scheduled time after normal business hours to minimize the effect on network performance.

You should consider a number of factors as you decide how often to conduct a file system scan:

- Although daily scanning always provides the most up-to-date information, scanning is not throttled and might place a considerable load on the server hosting the Agent.
- Most storage resources do not change rapidly enough to justify daily scanning.

- Monthly scanning places the least total load on individual servers and on the network, but scans are not as up-to-date as they could be.
- You can scan frequently-changing volumes more often and scan the more static volumes less often.
- Part of the decision concerning scanning frequency involves the primary purpose of the reporting. Reporting on storage trending can generally use less frequent scans, but reporting that is intended to solve immediate problems, such as "Who filled up this volume?" needs more frequent scans.
- When information is needed immediately, you can manually trigger a scan.
- For installations where you are not sure of the optimal scanning frequency, you can start with weekly scanning, and then adjust that interval based on the needs of the particular site.

5.1.1 Scan Retention

By default, File Reporter only retains the most current file system scan and permissions scan of a storage resource. However, if you want to generate Historic Comparison reports, which let you compare two scans of the same storage resource over two points in time, you will need to specify that scans be retained. Depending on the retained scan type, this is done either manually or automatically.

Manual Retention

You can specify that a file system or permissions scan be retained indefinitely as a "Baseline scan" by manually specifying it in the Scan Data page. For procedures and more information on Baseline scans, see Section 5.5, "Establishing a Baseline Scan," on page 49.

Automatic Retention

Within the scan policy, you can specify that the last file system scan or permissions scan be retained when a new file system scan or permissions scan is conducted. This version is known as a "Previous scan." For procedures and more information on Previous scans, see Section 5.4, "Creating Scan Policies," on page 44.

5.2 Adding a Scan Target

All volumes and shares must first be specified as a scan target before they can be scanned.

- 1 Select File Systems > Scan Targets.
- 2 Click Add.
- 3 Click the > to view the volumes and shares of the listed servers.

Storage Reso	urce Browser		0
Resource Filter:		Apply Filter	Refresh
	\\dynamics.cctec.org\DFS\HQ\HQUsers	NTFS	^
	\\dynamics.cctec.org\DFS\London\LondonShare	NTFS	
	\\dynamics.cctec.org\DFS\London\LondonUsers	NTFS	
	\\dynamics.cctec.org\DFS\Munich\MunichShare	NTFS	
	\\dynamics.cctec.org\DFS\Munich\MunichUsers	NTFS	
	\\dynamics.cctec.org\DFS\NYC\NYCShare	NTFS	
	\\dynamics.cctec.org\DFS\NYC\NYCUsers	NTFS	
	\\dynamics.cctec.org\DFS\SFO\SFOUsers	NTFS	
▼ CCTEC_T	REE		
	\\CCTEC3\NSMPROXYHOME	Ext3	
	\\CCTEC3\VOL1	NSS	
	\\CCTEC3\VOL2	Xfs	~
		ок	CANCEL

4 Select the volumes and shares you want File Reporter to be able to scan and click OK.

The scan targets are added.

🔂 Add	d 😢 Delete 😋 Refresh 👼 Rebuild Sto	rage Resources			
Drag a col	olumn header here to group by that column				
	Identity System	Target Path 1	File System	Id	
	т	Т	т	т	
	CCTEC_TREE	\\CCTEC3\NSMPROXYHOME	Ext3	14	
	CCTEC_TREE	\\CCTEC3\VOL1	NSS	10	
	CCTEC_TREE	\\CCTEC3\VOL2	Xfs	11	
	dynamics.cctec.org	\\dynamics.cctec.org\DFS\Atlanta\AtlantaShare	NTFS	2	
	dynamics.cctec.org	\\dynamics.cctec.org\DFS\Atlanta\AtlantaUsers	NTFS	3	
	dynamics.cctec.org	\\dynamics.cctec.org\DFS\HQ\HQShare	NTFS	12	
	dynamics.cctec.org	\\dynamics.cctec.org\DFS\HQ\HQUsers	NTFS	13	
	dynamics.cctec.org	\\dynamics.cctec.org\DFS\London\LondonUsers	NTFS	4 .	

5.3 Removing a Scan Target

- 1 Select File Systems > Scan Targets.
- 2 Select the check box pertaining to the volume or share you want to remove as a scan target and click **Delete**.
- 3 When the confirmation dialog box appears, click Yes.

5.4 Creating Scan Policies

The specifications for a scan are established in a scan policy. The scan policy specifies the following parameters:

- What type of scan to conduct (File System, Permissions, or Volume Free Space)
- The scan targets
- Scan retry settings
- The scan schedule

IMPORTANT: The scan policy name must be unique. If you attempt to give the scan policy an existing name, File Reporter generates an error.

- 1 Select File Systems > Scan Policies.
- 2 Click Add.

New Scan Polic	у	٢
Policy Name Policy Type	 File System Permissions Volume Free Space 	
	OK CANCEL	

3 In the Scan Policy Name field, specify a name for the scan policy.

You can provide a description of the policy in the next dialog box.

4 Select the type of scan that File Reporter is to conduct.

File System: Scans the files currently stored on the network volume or share, the size of those files, when the files were last accessed, the locations of duplicate versions, and so forth.

Permissions: Scans the rights, trustee assignments, and permissions pertaining to the folders stored on the volumes or shares.

Volume Free Space: Scans the availability of free space on the volumes or shares.

5 Click OK.

Scan Policy Editor		0
Name:*	Munich Users FS Scan Policy	
Description:	File System scan for Munich Users share	
Retry Count:	3 🗇	
Retry Interval:	60 💠 Minutes 🔻	
Directory quotasi	Scan Directory Quotas	
Previous Scans:	Note that this may take a significant amount of time.	
Add Remove		
Target Path		
	OK CANCEL	

Name: Displays the name of the scan policy.

Description: Specify a description of the scan policy in this field.

Retry Count: Specify the number of times File Reporter attempts to scan the storage resource targets listed in the scan policy if there is a failure.

Retry Interval: Specify the amount of time before File Reporter retries scanning the storage resource targets listed in the scan policy if there is a failure.

Directory Quotas: By default, a scan does not include home folder quota information, because gathering this information on Windows shares can extend the scan time significantly. Unless you plan to generate a Directory Quota report, we recommend that you leave this option deselected.

This option applies only to File System scans.

Previous Scans: This option lets you specify whether to keep the previous version of a scan generated through this policy. This scan is known as the "Previous scan" which you can then use to generate a Historic Comparison report through a comparison with either a Baseline scan or a "Current scan." For more information, see Section 6.8, "Historic Comparison Reports," on page 86.

Previous scans are designated whenever a new scan is performed. The new scan is the Current scan and the earlier scan becomes the Previous scan. When the target paths are eventually scanned again, the new scan becomes the Current scan, the earlier Current scan becomes the Previous scan, and the former Previous scan is deleted.

NOTE: If you want to maintain a scan indefinitely, you can do so by specifying it as a Baseline scan. For more information, see Section 5.5, "Establishing a Baseline Scan," on page 49.

The management of Previous scan retention occurs when processing a new scan. This means that if you deselect **Retain existing Previous scan**, no existing Previous scan will be removed at that time, but it will be removed when a new scan is processed.

Add: Click this option to specify the scan targets for the scan policy.

IMPORTANT: After a target has been added to a scan policy, the same target cannot be added to another scan policy of the same scan policy type. For example, if you specify \\Pinyon\Voll in one File System scan, you cannot specify the same volume in another File System scan.

Clicking Add brings up a dialog box like the one below where you can select available storage resources.

	Identity System	Target Path
	CCTEC_TREE	\\CCTEC3\NSMPROXYHOME
	CCTEC_TREE	\\CCTEC3\VOL1
	CCTEC_TREE	\\CCTEC3\VOL2
	dynamics.cctec.org	\\dynamics.cctec.org\DFS\Atlanta\AtlantaShare
	dynamics.cctec.org	\\dynamics.cctec.org\DFS\Atlanta\AtlantaUsers
	dynamics.cctec.org	\\dynamics.cctec.org\DFS\HQ\HQShare
	dynamics.cctec.org	\\dynamics.cctec.org\DFS\HQ\HQUsers
	dynamics.cctec.org	\\dynamics.cctec.org\DFS\London\LondonUsers
	dynamics.cctec.org	\\dynamics.cctec.org\DFS\Munich\MunichShare
	dynamics.cctec.org	\\dynamics.cctec.org\DFS\Munich\MunichUsers
Pag	e 1 of 2 (13 items) 🛛 🔇	1 2 >
		OK CANCEL

6 Click OK to save the scan policy.

The scan policy is now displayed on the Scan Policies page.

O A	dd 💉 Edit 🙆 Delete	Edit Schedule	O Clear Sch	nedule	O Scan Now	G Refresh				
)rag a	column header here to group by that co	lumn								
	Policy Name	Ť	Scan Type	Ŧ	Target Paths	Save Previous	Schedule	Retry Count	Retry Interval	3
		Τ		Ţ	т	т	т	τ	т	
	🆐 Atlanta File System		File System [Data	2	No	[mill [Not Scheduled]	3	60 minutes	
	🃅 Atlanta User Permissions		Permissions		1	No	[INot Scheduled]	3	60 minutes	
	5 CCTec Vol 1 Permissions		Permissions		1	Yes	[INot Scheduled]	3	60 minutes	
	🃅 HQ File System		File System [Data	1	No	[INot Scheduled]	3	60 minutes	
	🆐 HQ Users File System		File System [Data	1	No	[Not Scheduled]	3	60 minutes	
	5 London Users Permission	S	Permissions		1	No	[INot Scheduled]	3	60 minutes	
	🌮 Munich Users FS Scan Pol	licy	File System [Data	1	No	📺 Daily at 12:00 AM	3	60 minutes	
	🆐 SFO Trending		Volume Free Space		1	(Yes)	[Hit] [Not Scheduled]	3	60 minutes	
Pag	e 1 of 1 (8 items) < 1	>								

The scan policy still needs to be scheduled. For procedures on scheduling scans, go to Section 5.9, "Scheduling Scans," on page 50.

5.5 Establishing a Baseline Scan

A Baseline scan is a scan that you save as a reference for a comparison with another scan. You compare scans when you generate a Historical Comparison report. Unlike a Previous scan, which gets replaced as a new Current scan is created, a Baseline scan is retained indefinitely until you decide to delete it. You can have only one Baseline scan per scan target.

IMPORTANT: Because you can have only one Baseline scan per scan type for a scan target, establishing a scan as a Baseline will override any established Baseline scan of the same scan type for the same scan target.

- 1 Select File Systems > Scan Data.
- 2 In the far left column, select the check box pertaining to the scan you want to set as a Baseline scan.
- 3 Click Set Baseline.
- 4 When the confirmation dialog box appears, click Yes.

5.6 Clearing a Baseline Scan

Scans designated as Baseline scans are retained until the baseline designation is cleared. If a Baseline scan that is in the Retained state has its Baseline status removed, that scan will be immediately marked for deletion.

- 1 Select File Systems > Scan Data.
- 2 In the far left column, deselect the check box pertaining to the scan you want to clear as a Baseline scan.
- 3 Click Clear Baseline.
- 4 When the confirmation dialog box appears, click Yes.

5.7 Editing a Scan Policy

- 1 Select File Systems > Scan Policies.
- 2 Click the check box that pertains to the scan policy that you want to create a edit.
- 3 Click Edit.
- 4 Change any of the settings you wish.
- 5 Click OK.

5.8 Deleting a Scan Policy

- 1 Select File Systems > Scan Policies.
- 2 Click the check box that pertains to the scan policy that you want to delete.
- 3 Read the warning and click Yes.

5.9 Scheduling Scans

- 1 Select File Systems > Scan Policies.
- 2 Click the check box that pertains to the scan policy for which you want to create a schedule.
- 3 Click Edit Schedule.

SCHEDULE START		
Engine Local Time:*	12:00 AM	\diamond
Engine Local Start Date:*	6/12/2018	•
SCHEDULE RECURRENCE		
O Once		
Daily		
O Weekly Tuesday	T	
O Monthly		
Day 1	of every month	
O The First	▼ Sunday	 of every month

Engine Local Time: Specify the time that you want the scan to begin.

The time you select is based on the time zone where the Engine is located and not the Agent that conducts the scan.

Engine Local Start Date: Specify the date when you want the scan schedule to take effect.

Be aware that entering a date does not mean that the scan takes place on that date. If the **Engine Local Start Date** is set for today, which is a Monday, but the **Schedule Recurrence** setting is set for **Weekly** on Sunday, the scan does not take place until Sunday.

Once: Select this option to scan the storage resources specified in the scan policy only once.

Daily: Select this option for a daily scan of the storage resources specified in the scan policy.

Weekly: Select this option and specify a weekday for a weekly scan of the storage resources specified in the scan policy.

Monthly: Select this option and specify a day for a monthly scan of the storage resources specified in the scan policy.

4 Specify the scheduling parameters and click OK.

5.10 Editing a Scheduled Scan

- 1 Select File Systems > Scan Policies.
- 2 Click the check box that pertains to the scan policy for which you want to edit a schedule.
- 3 Click Edit Schedule.
- 4 Make the schedule changes you want.
- 5 Click OK.

5.11 Clearing a Schedule on a Scheduled Scan

- 1 Select File Systems > Scan Policies.
- 2 Click the check box that pertains to the scan policy for which you want to clear a schedule.
- 3 Click Clear Schedule.
- 4 When the confirmation prompt appears, click Yes.

5.12 Conducting an Immediate Scan

- 1 Select File Systems > Scan Policies.
- 2 Click the check box that pertains to the scan policy for which you want to conduct an immediate scan.
- 3 Click Scan Now.
- 4 When the confirmation prompt appears, click Yes.

5.13 Viewing Scans in Progress

You can view details on the scans that are in progress through the Scans in Progress page. When the scan has been completed, you can view the details in the Scan History page.

1 Select File Systems > Scans in Progress.

	hetry 😋 Refresh				a and the second second			a an an tar	
 Scan ID	lers to group by that colores	Scan Policy	Scan Type	Agent	Start Time	Status	Try C	Next Retry Time	Last Error
T T		[]т	Т. Т.	() T	• T	[] ,	0,	• 7	
ш	\\dynamics.cctec.org\DFS\Atlanta\AtlantaUsers	Atlanta User Permissions	Permissions	007802	6/12/2016 12:15:34 PM	Scan in Progress	•		(0) Operatio successful
10	\\dynamics.ccfec.org\DFS\Munich\MunichUsers	Munich Users FS Scan Policy	File System Data	CCTEC2	6/12/2018 12:15:34 PM	Scan in Progress	0		(0) Operatio successful.
Ŷ	\\dynamics.cctec.org\DFS\London\LondonUsers	London Users Permissions	Permissions		6/12/2018 12:15:34 PM	Waiting for Retry	1	6/12/2018 1:15:00 PM	(-1) An unspecified error has occurred.
8	\\dynamics.cctec.org\DFS\Atlanta\AtlantaUsers	Atlanta File System	File System Data	CCTEC2	6/12/2018 12:15:34 PM	Scan in Progress	0		(0) Operation
7	\\dynamics.cctec.org\DFS\Atlanta\AtlantaShare	Atlanta File System	File System Data	CCTEC2	6/12/2018 12:15:34 PM	Scan in Progress	0		(0) Operatio successful

As you click **Refresh**, the completed scan listings are removed and listen in the Scan Data and Scan History pages.

5.14 Retrying Failed Scans

In the Scan Policy Editor dialog box, the default scan policy settings for **Retry Count** is three and the **Retry Interval** is 60 minutes. You can adjust each of these settings. Assuming the default settings are not adjusted, File Reporter retries the scan in 60 minutes and only retries to scan up to three times.

Until File Reporter has attempted all three retries, the failed scans remain listed on the Scans in Progress page. After all retries have been performed, the scan listing is moved to the Scan History page.

As long as a filed scan is listed on the Scans in Progress page, you can retry the scan manually by doing the following:

- 1 From the Scans in Progress page, select the check box corresponding to the failed scan.
- 2 Click Retry.

5.15 Viewing Scan Data

The Scan Data page lets you view a minimal set of details pertaining to the currently available scans for each scan target.

1 Select File Systems > Scan Data.

	Scan Id	Scan Tareet	Scan Type T	State T	Baseline T	Triggered Scan Time	Policy T	Agent T	Status
-	T	Ţ		June 1	Carcinic 1	* T	T	T T	
	10	\\dynamics.cclec.org\DFS\Munich\MunichUsers	File System Data	Current	Fabe	6/12/2018 12:15:34 PM	Munich Users FS Scan Policy	сстес2	(0) Operation successful.
-	11	\\dynamics.cctec.org\DFS\Atlanta\AtlantaUsers	Permissions	Current	False	6/12/2018 12:15:34 PM	Atlanta User Permissions	CCTEC2	(0) Operation successful.
2	8	\\dynamics.cctec.org\DF5\Atlanta\AtlantaLisers	File System Data	Current	Faise	6/12/2018 12:15:34 PM	Atlanta File System	CCTEC2	(0) Operation successful.
	7	\\dynamics.ccfec.org\DF5\Affanta\AffantaShare	File System Data	Current	Fabe	6/12/2018 12:15:34 PM	Atlanta File System	CCTEC2	(0) Operation successful
0	4	\\dynamics.cctec.org\/DFS\/London\LondonUsers	Permissions	Current	True	6/7/2018 2:53-18 PM	London Users Permissions	CCTEC2	(0) Operation successful

5.16 Viewing Scan History

The Scan History page displays a complete history of all scans, along with details of the scan and some basic information of the storage resource at the time of the scan, including the file and folder count.

1 Select File Systems > Scan History.

				SC	AN TARGETS SC	AN F	ALICIES SCAN D	ATA	SCANS IN PROGRESS	5	SCAN HISTORY	SI	CAN AGENTS					
G Refresh																		
irag a column hai	ider here to group by that colum	15																
ican Id	Start Time	÷	Scan Target		Scan Policy		Scan Type		Agent		Scan Duration		Database Duration		File Count	Folder Count	Status	
Ŧ	-	т		-		τ		т	1	r.	T			Ŧ	τ	τ		τ
8	6/12/2018 12-15:34 PM		\\dynamics.cctec.	org	Atlanta File System		File System Data		CCTEC2		00.00-00-00.000		00.00-00-00.253		5	35	(0) - Success	
7	6/12/2018 12:15:34 PM		\\dynamics.cctec.	org	Atlanta File System		File System Data		CCTEC2		000.00.00.000.000		00.00:00:00.564		0	8	(0) - Success	
6	6/7/2018 2:53:52 PM		\\dynamics.cctec.	org	Atlanta File System		File System Data		CCTEC2		00.00:00:01.000		00.00-00-00.333		5	35	(0) - Success	
5	6/7/2018 2:53:52 PM		\\dynamics.cctec.	org	Atlanta File System		File System Data		CCTEC2		00.00-00-01.000		00.00-00-00.207		0	8	(0) - Success	
4	6/7/2018 2:53:18 PM		\\dynamics.cctec/	org	London Users Permissions		Permissions		CCTEC2		00.00-00-03.000		00.00-00-00.560		0	1	(0) - Success	
3	6/7/2018 1:47:52 PM		\\dynamics.cctec.	org	London Users Permissions		Permissions		CCTEC2		00.00-00-04.000		00.00.00.02.890		0	1	(0) - Success	
2	6/7/2018 1.38.42 PM		\\dynamics.cctec/	org	Atlanta File System		File System Data				00.00.00.00.000		00.00.00.00.000		0	0	(68) - Scan canceled by use	é,
1	6/7/2018 1:38:42 PM		\\dynamics.cctec.	org	Atlanta File System		File System Data				00.00.00.00.000		00.00.00.00.000		0	0	(68) - Scan canceled by use	
Page 1 of 1 (10 items) < 💽																	

You can click the columns to list the data in ascending or descending order.

Because the Scan History page logs each successful scan, the most efficient way of locating a scan is using a filter.

5.17 Troubleshooting a Failed Scan

- 1 Verify that the Agent service is running properly on its host machine.
- 2 Verify that the host machine where the Agent is installed has enough free disk space to temporarily store a copy of the scan in its uncompressed and compressed form.
- **3** If an Agent is not installed directly on the server with the storage resource you want to scan, verify that a proxy assignment for the storage resource has been established.
- **4** If the proxy agent is not scanning, assign the storage resource from a different proxy agent and try scanning again.
- **5** When scanning Windows storage resources, verify that the proxy rights group has been assigned the proper rights to the share.

The proxy rights group must be assigned to the builtin\administrators group or the local administrators group on the server where the scan is being conducted.

6 Verify that the Windows Firewall is configured to permit network traffic to flow between the Engine and the Agent.

For more information on the Windows Firewall, see Section B.2, "Firewall Requirements," on page 153.

6

Generating File System Reports

- Section 6.1, "Overview," on page 57
- Section 6.2, "Changing Your Cover Sheet Branding," on page 58
- Section 6.3, "Changing the Report Data Font," on page 59
- Section 6.4, "Built-in Report Types," on page 60
- Section 6.5, "Directory Data Reports," on page 60
- Section 6.6, "Permissions Reports," on page 71
- Section 6.7, "File Data Reports," on page 76
- Section 6.8, "Historic Comparison Reports," on page 86
- Section 6.9, "Trending Report," on page 91
- Section 6.10, "Custom Query Reports," on page 92
- Section 6.11, "Unformatted Reports," on page 95
- Section 6.12, "Micro Focus File Dynamics and Storage Manager Policy Reports," on page 96
- Section 6.13, "Scheduling Reports," on page 96
- Section 6.14, "Editing a Scheduled Report," on page 98
- Section 6.15, "Clearing a Schedule on a Scheduled Report," on page 98
- Section 6.16, "Copying a Report Definition," on page 98
- Section 6.17, "Viewing Reports in Progress," on page 99
- Section 6.18, "Troubleshooting Reports," on page 100

6.1 Overview

After you have conducted scans on storage resources, Micro Focus File Reporter has the content needed to generate reports. The type of report you can generate depends on the type of scan that you have conducted. For example, in order to create an Assigned NTFS Permissions report, a Permissions scan on a Windows share must first be conducted.

All reports are created by first creating report definitions. The report definition specifies the report name, type, target path to the scans, and more.

IMPORTANT: The report definition name must be unique. If you attempt to give the report definition an existing name, File Reporter generates an error.

File Reporter has built-in aggregate reporting capabilities, meaning that you can specify multiple target paths in the same report. Additionally, File Reporter has built-in scoping, which allows you to browse through the file path or identity system and specify the level where you want to start reporting data. Finally, Boolean filtering is available for all File Data Reports. For more information, see Appendix A, "Filtering," on page 147.

When the definition has been saved, you can generate the report immediately, or schedule it to be generated.

You can generate reports in either Preview or in Stored Report mode. Preview lets you view the report where you can save it locally if you want to. Stored Report saves the report to the server hosting the Engine, where it remains for a set amount of days.

You can generate Detailed Reports from certain built-in report types. For example, a File Extension Report can be the means of generating a Detailed Report that includes the specific details of all of the *.mov files.

All built-in reports include a cover sheet that you can customize to include your organization's logo.

6.2 Changing Your Cover Sheet Branding

All generated built-in reports include a cover sheet that includes a default graphic. If you want, you can replace it with your organization's logo.

- 1 Select Reports > Report Definitions.
- 2 Select Report Branding and Styling > Report Branding.

Report Branding		8
Company Name: Company Logo:	Images must meet the following criteria: Less than one megabyte (1 MB) Dimensions no larger than 500x400 pixels File format is one of the following: PNG (* png)	
	 JPEG (*.jpg, *.jpeg) BMP (*.bmp) 	ESET
	SAVE	CANCEL

3 In the Company Name field, specify the name of your organization.

This is the name that appears on the front cover.

4 Click Browse, then browse to and replace the default logo with a new logo.

Report Branding		©
Company Name: Company Logo:	CCTEC	
	Images must meet the following criteria: • Less than one megabyte (1 MB) • Dimensions no larger than 500x400 pixels • File format is one of the following: • PNG (*.png) • JPEG (*.jpg, *.jpeg) • BMP (*.bmp)	
	Browse	RESET
	SAVE	CANCEL

5 Click Save.

6.3 Changing the Report Data Font

Due to limitations of font encoding in PDF files, you might need to specify an alternate report data font. Locales that have multi-byte characters or characters outside the Latin-1 set of characters supported by the default font are especially at risk.

If you know the collected data is limited to a specific locale or language, choose a font that properly displays all characters for that locale or language.

If the collected data might contain characters that span multiple locales or that include both multi-byte and Latin-1 characters, for example, choose an appropriate Unicode Font that can accurately display most characters from the Unicode set and not just a specific locale.

Two Unicode fonts known for having both good Unicode character coverage and good glyph presentation are MS Arial Unicode (a sans-serif font) and CODE2000 (a serif font).

For more information on these fonts and on Unicode fonts in general, see http://en.wikipedia.org/wiki/ Unicode_font.

NOTE: You can change the data font to any font that is available on the server hosting the Web Application.

Headers and parameters in the reports remain in the default Arial font.

To change the report data font:

- 1 From the Reports menu, select Report Definitions.
- 2 From the Report Branding and Styling drop-down menu, select Report Data Font.
- 3 From the **Report Data Font Name** drop-down menu, select the font you want displayed in the report.
- 4 Click Save.

6.4 Built-in Report Types

File Reporter has five different built-in report type classifications:

- Directory Data
- Permissions
- File Data
- Historic Comparison
- Trending

Each classification includes one or more report types. For example, in the Permissions category, there are four different reports that can be generated.

For more information about the procedures for generating built-in reports according to classification, see the following sections:

- Section 6.5, "Directory Data Reports," on page 60
- Section 6.6, "Permissions Reports," on page 71
- Section 6.7, "File Data Reports," on page 76
- Section 6.9, "Trending Report," on page 91
- Section 6.11, "Unformatted Reports," on page 95

6.5 Directory Data Reports

Reports in this classification include Summary, Directory Quota, Storage Cost, and Comparison Reports.

Before generating any type of Directory Data report, you must first conduct a File System scan on the volumes or shares you want to report on.

- Section 6.5.1, "Generating a Summary Report," on page 61
- Section 6.5.2, "Generating a Directory Quota Report," on page 68

- Section 6.5.3, "Generating a Storage Cost Report," on page 69
- Section 6.5.4, "Generating a Comparison Report," on page 70

6.5.1 Generating a Summary Report

Summary reports provide a summary of the contents of folders according to a specified level in the file system.

- 1 Select Reports > Report Definitions.
- 2 Click Add.

Add Report Definition			8
Name:* Unformatted: Create report as Unformatted (for	use with Text, Csv, or XIs exports)		
Directory Data	File Data		
O Summary	O Filename Extension	O Filename Extension Detail	
O Directory Quota	O Owner	O Owner Detail	
O Storage Cost	O Duplicate File	O Duplicate File Detail	
Comparison	O Date-Age	O Date-Age Detail	
Permissions	Historic Comparison		
O Assigned NCP Permissions	O File System Comparison		
O Assigned NTFS Permissions	O NCP Permissions Comparison		
O Permissions by Path	O NTFS Permissions Comparison	1	
O Permissions by Identity			
Trending	Custom Query		
O Volume Free Space	O Custom Query Report		
		OK CANC	EL

3 In the Name field, specify a descriptive name of the report definition.

For example, User Volume Summary Report.

The name can contain up to 64 alphanumeric characters.

4 Select the Summary option and click OK.

ort Definiti	ion Editor - Atlanta User Share Summary Report			(
Name:•	Atlanta User Share Summary Report	Report Path Depth	0 \$	
Туре:	Summary Report	Initial Chart Path Depth	0 \$	
Description:	Report Definition created on 6/13/2018 9:15:15 AM by DYNAMICS\Administrator	A Report Path Depth great size and processing time.	er than 3 or 4 may result in significant	report
TARGET PAT	THS FILE MANAGEMENT POLICIES			
Add Remo				
Target	t Path			

5 In the Report Path Depth field, specify the depth of reporting.

For example, if you select 3, the Summary report lists the file contents of all file paths in the specified shares up to 3 levels in the file structure.

For example, for a server named Las Vegas, the Summary report would list the contents of these paths:

\\lasvegas.nvb.local\Users1

\\lasvegas.nvb.local\Users1\a

\\lasvegas.nvb.local\Users1\a\stuff

\\lasvegas.nvb.local\Users1\a\stuff\morestuff

6 In the Initial Chart Path Depth field, specify the initial path depth for inclusion in the Top Ten Folders by Size chart that is displayed in the report header section.

This is important so that when the **Report Path Depth** is greater than zero, the top level folders are now conditionally included. The **Chart Path Depth** parameter is not allowed to be greater than the currently specified **Report Path Depth**.

7 From the Target Paths tab, click Add.

Scan Data Browser - File System Data	٩
 N CCTEC_TREE dynamics.cctec.org 	
OK CANCE	L

8 Click the > to browse to and select the file paths you want included in the report, then click OK.

You must expand the eDirectory tree or Active Directory forest to be able to select the volumes or shares, even if you want to select the root of the eDirectory tree or Active Directory forest.

9 Click Save.

The report definition is added to the list.

					REPORT	DEFINITIONS	REPORTS IN	PROGRESS FOLDER SUMMA	RY STORED REPORTS		
🗘 Ad	bb	🖋 Edit	≡]) Rename	ig co	ppy 🛛 🕲 Delete	Schedu	ile Generate	Report Branding and Stylin	ng 🕄 Refresh		
)rag a c	column l	header here t	to group by that colu	mn							
		Name		î	Report Type	τ	Targets	File Management Policies	Report Owner	Schedule	le
				Ŧ		-	1		1		
						т	T	Ŧ	т		τ
	۹		nta User Share mary Report		Summary	T	1	0	dynamics\administrator	(Not Scheduled)	T ?
	Q				Summary					(Not Scheduled)	

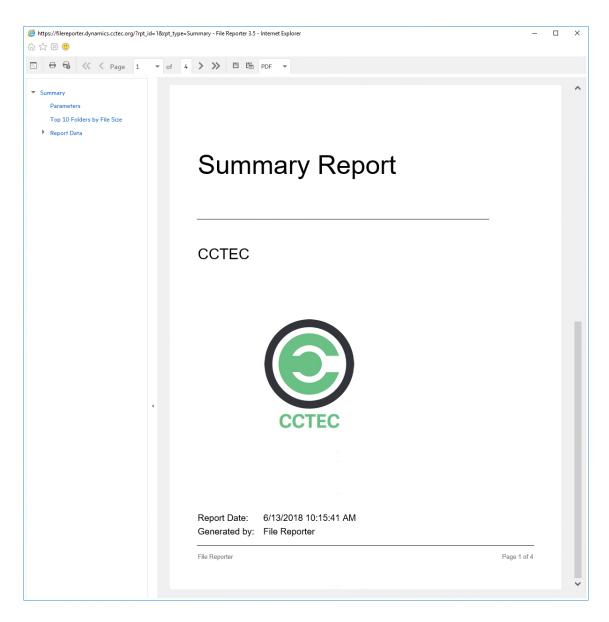
- **10** Do one of the following:
 - Generate the report in Preview mode by following the procedures under "Generating a Preview Report" on page 64.
 - Generate the report in Stored mode by following the procedures under "Generating a Stored Report" on page 66.

Generating a Preview Report

A preview report is generated from scan data in the database and is temporarily cached in the Web application's data folder. When you close a preview report, you cannot access the report again until you generate a new one using the same report definition.

When you view a report in Preview mode, you can print the report or save the report locally.

- 1 From the Report Definitions page, select the report definition from which you want to generate a report.
- 2 Select Generate > Generate Preview.
- **3** (Conditional) If you get a message stating that your browser prevented pop-up windows from appearing, enable pop-ups for this site.



All reports are structured similarly, with a title page, report parameters, for some report types a Top Ten summary, followed by a comprehensive breakdown of the data in the pages that follow.

Display the Search Window button: Lets you conduct a search within the preview report.

Print the Report button: Prints the entire preview report.

Print the Current Page button: Prints the currently displayed page.

First Page button: Takes you to the first page of the preview report.

Previous Page button: Takes you to the page that precedes the page you are viewing.

Page drop-down menu: Lets you advance to a page number by selecting it.

Next Page button: Takes you to the page that follows the page you are viewing.

Last Page button: Takes you to the last page of the preview report.

Export a Report and Save it to the Disk button: Exports the preview report to the file type listed in the drop-down menu and lets you view or save it in the new format.

Export a Report and Show it in a New Window button: Exports the preview report to the file type listed in the drop-down menu.

File Type drop-down menu: Lets you select the file type format to export the report to.

Document Navigation: Lists the contents of the report. You can click any item to advance within the preview report.

4 Export, save, or print the preview report.

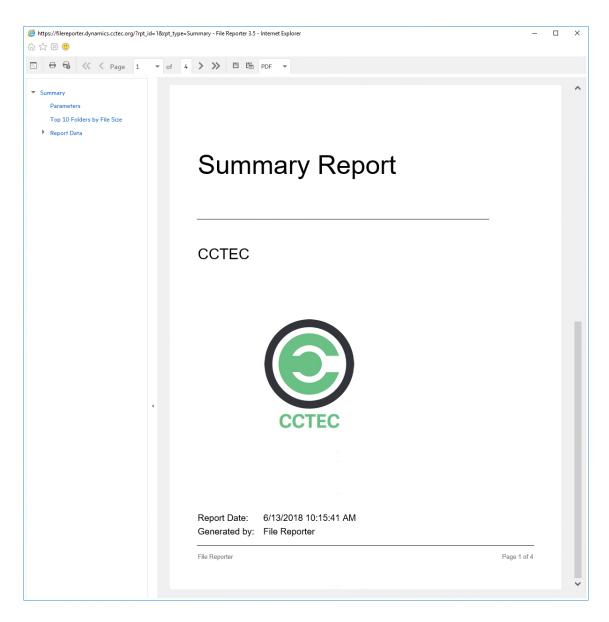
Generating a Stored Report

Generating a report in Stored mode means that the report is saved and available for access for a set number of days from the time it is generated. Of course, you can save the report locally where you can keep it indefinitely.

- 1 From the Report Definitions page, select Generate > Generate Stored Report.
- 2 Select Reports > Stored Reports.

FR	Ņ	MAIN	FILE SYSTEMS	FIL	E CONTENT	REPORTS	s (CONFIGURATION					А рум	IAMI	CS\Administrator
					REPOR	RT DEFINITION	S	REPORTS IN PROGRESS	FOLDEF	SUMMARY	STORED REPO	RTS			
0)elete	G	Refresh												
Drag a	i column	n header	here to group by that column												
		Nam	e		Size			Report Type	Τ	Report Tim	ie	1	Expiration Date		Id
				τ			Ŧ		Τ		•	Τ		τ	τ.
	⊻	Repo	Atlanta User Share Summ ort	nary		20.35	кв	Summary		6/13/2018	10:57:48 AM		7/13/2018 12:00:00 AM		1
Pa	ge 1 of	f 1 (1 ite	ems) < 1 >												
٣	Create	e Filter													
								Copyright 2018 © Condi	ey Corpo	ration					

- 3 Click the report you want to view.
- 4 (Conditional) If you get a message stating that your browser prevented pop-up windows from appearing, enable pop-ups for this site.



All reports are structured similarly, with a title page, report parameters, for some report types a Top Ten summary, followed by a comprehensive breakdown of the data in the pages that follow.

Display the Search Window button: Lets you conduct a search within the preview report.

Print the Report button: Prints the entire preview report.

Print the Current Page button: Prints the currently displayed page.

First Page button: Takes you to the first page of the preview report.

Previous Page button: Takes you to the page that precedes the page you are viewing.

Page drop-down menu: Lets you advance to a page number by selecting it.

Next Page button: Takes you to the page that follows the page you are viewing.

Last Page button: Takes you to the last page of the preview report.

Export a Report and Save it to the Disk button: Exports the preview report to the file type listed in the drop-down menu and lets you view or save it in the new format.

Export a Report and Show it in a New Window button: Exports the preview report to the file type listed in the drop-down menu.

File Type drop-down menu: Lets you select the file type format to export the report to.

Document Navigation: Lists the contents of the report. You can click any item to advance within the report.

5 Save or print the stored report.

6.5.2 Generating a Directory Quota Report

Directory Quota reports specify folders with assigned quota, the amount of quota assigned, and the amount of quota consumed.

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Select the Directory Quota option and click OK.

Name:*	HQ Users Directory Quota Report	
Unformat	tted:	
Type:	Directory Quota Report	
Descriptio	on: Report Definition created on 6/13/2018 11:45:53 AM by DYNAMICS\Administrator	
TARGET	PATHS FILE MANAGEMENT POLICIES	
Add R	Remove	
Tai	rget Path	

- 5 From the Target Paths tab, click Add.
- 6 Browse to and select the file paths you want included in the report and click OK.
- 7 Click Save.
- 8 Generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

6.5.3 Generating a Storage Cost Report

Storage Cost reports indicate storage costs according to prices established in the **Cost per Unit** setting of the Report Definition editor. You can use this report to determine which users or groups are being irresponsible with network storage practices.

NOTE: When the report is generated, the monetary symbol that is displayed comes from the local Engine/Web server's Windows locale and region settings. For example, if the Windows server hosting the engine and Web application is set up using US locale and region, it will show a \$ for costing displays in the report.

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Select the Storage Cost option and click OK.

Name:*	Atlanta Users Storage Cost Report	Unit:	GB 👻	
Unformatted: Type: Description:	Storage Cost Report Report Definition created on 6/13/2018 12:16:55 PM by DYNAMICSVAdministrator	Cost per Unit:•	1.0 \$	
TARGET PAT				
Add Remov				

- 5 In the Unit drop-down menu, select the storage unit value for which you want to establish a cost.
- 6 In the Cost per Unit field, indicate the cost of the selected storage unit.
- 7 From the Target Paths tab, click Add.
- 8 Browse to and select the file paths you want included in the report and click OK.
- 9 Click Save.
- **10** Generate the report as either a Preview report or as a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

6.5.4 Generating a Comparison Report

A Comparison report specifies the differences between two selected folders on the network. This is useful if you want to verify that servers are hosting the same version of software, library files on servers are the same, and so forth.

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Select the Comparison option and click OK.

		HQ Share Users Comparison Report	Results:	Show unique paths from both targets	•
Unfori	natted:				
Гуре:		Comparison Report			
Description:		Report Definition created on 6/13/2018 12:44:45 PM by DYNAMICS\Administrator			
TARG	ET PATHS	5			
Add	Remove				
	Target Pa	th			Inde

5 In the Comparison Results drop-down menu, select an option.

Show unique paths from both targets: The report indicates the differences in folder and file names for the compared target paths.

Show paths unique to the first target: The report indicates only the unique folder and file names found in the first target path.

Show paths unique to the second target: The report indicates only the unique folder and file names found in the second target path.

- 6 From the Target Paths tab, click Add.
- 7 Browse to and select two volumes, shares, or folders whose data you want to compare and click OK.

- 8 Click Save.
- 9 Generate the report as either a Preview report or as a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

6.6 Permissions Reports

Reports in this classification include Assigned NCP Permissions, Assigned NTFS Permissions, Permissions by Path, and Permissions by Identity.

NOTE: The term "Permissions" in File Reporter includes NTFS permissions as well as NCP rights and trustee assignments.

Before generating any type of Permissions report, you must first conduct a Permissions scan on the volumes or shares you want to report on.

- Section 6.6.1, "Generating an Assigned NCP Permissions Report," on page 71
- Section 6.6.2, "Generating an Assigned NTFS Permissions Report," on page 73
- Section 6.6.3, "Generating a Permissions by Path Report," on page 74
- Section 6.6.4, "Generating a Permissions by Identity Report," on page 75

6.6.1 Generating an Assigned NCP Permissions Report

The Assigned NCP Permissions report indicates the assigned Micro Focus (formerly Novell) file system rights and trustee assignments for all folders and subfolders from a specified path.

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Select the Assigned NCP Permissions option and click OK.

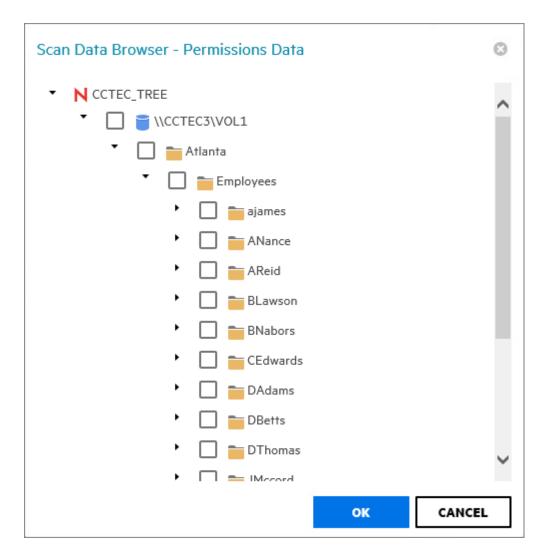
eport Definition	n Editor - CCTEC3 Volume 1 NCP Permissions Rep	ort			C
Name:*	CCTEC3 Volume 1 NCP Permissions Report	Limit Path Depth	0 \$		
Unformatted:					
Type:	Assigned NCP Permissions Report				
Description:	Report Definition created on 6/13/2018 1:56:46 PM by DYNAMICS\Administrator				
TARGET PATH	S FILE MANAGEMENT POLICIES				
Add Remove	3				
Target Pa	ath				
				SAVE	CANCEL

5 (Conditional) If you want to limit the scope of the report to a set depth in the file structure, click the Limit Path Depth check box and specify the depth level.

For example, if you specify 3, the report lists the file contents of all file paths in the specified target paths up to 3 levels in the file structure.

If you do not specify a path depth, File Reporter will report on all levels of the specified target path.

- 6 From the Target Paths tab, click Add.
- 7 Browse to and specify the file paths you want included in the report.



- 8 Click OK to close the Scan Data Browser.
- 9 Click Save to close the Report Definition Editor.
- **10** Generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

6.6.2 Generating an Assigned NTFS Permissions Report

The Assigned NTFS Permissions report indicates the assigned Microsoft file system user permissions for all folders and subfolders from a specified path.

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Select the Assigned NTFS Permissions option and click OK.

	on Editor - London Users Assigned NTFS Permissio	ns Report	
Name:*	London Users Assigned NTFS Permissions Report	Limit Path Depth	
Unformatted:		Include Inherited ACEs	
Type:	Assigned NTFS Permissions Report		
Description:	Report Definition created on 6/13/2018 3:16:21 PM by DYNAMICS\Administrator		
TARGET PAT	HS FILE MANAGEMENT POLICIES		
Add Remov			
Target	Path		

5 (Conditional) If you want to limit the scope of the report to a set depth in the file structure, click the Limit Path Depth check box and specify the depth level.

For example, if you specify 3, the report lists the file contents of all file paths in the specified target paths up to 3 levels in the file structure.

If you do not specify a path depth, File Reporter will report on all levels of the specified target path.

- 6 (Conditional) If you don't want the report to include inherited ACEs (Access Control Entries), deselect the Include Inherited ACEs check box.
- 7 From the Target Paths tab, click Add.
- 8 Browse to and specify the file paths you want included in the report and click OK.
- 9 Click Save.
- 10 Generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64.

For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

6.6.3 Generating a Permissions by Path Report

The Permissions by Path report indicates the effective rights to the Micro Focus (formerly Novell) file system or the permissions to the Microsoft file system according to the paths you specify.

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.

4 Select the Permissions by Path option and click OK.

	Target Pa	ith				
Add	Remove					
TARG	GET PATH	S FILE MANAG	EMENT POLICIES			
Descr	ription:	Report Definition crea DYNAMICS\Administ	ted on 6/14/2018 9:16:19 AM by ator			
Type:		Permissions by Path R	eport			
Unfor	rmatted:					
Name	3.**	London Users Permiss	ions by Path Report			

- 5 From the Target Paths tab, click Add.
- 6 Browse to and specify the file paths you want included in the report and click OK.
- 7 Click Save.
- 8 Generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

6.6.4 Generating a Permissions by Identity Report

The Permissions by Identity report indicates the effective rights to the Micro Focus (formerly Novell) file system or the permissions to the Microsoft file system according to the identities you specify.

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Select the Permissions by Identity option and click OK.

	Editor - HQ Users Permissions by Identity Report		
Name:*	HQ Users Permissions by Identity Report		
Unformatted:			
Туре:	Permissions by Identity Report		
Description:	Report Definition created on 6/14/2018 9:32:54 AM by DYNAMICS\Administrator		
IDENTITIES			
Add Remov	e		
Identity	System		
Ideniiiy	System	Name	
Identity	y si ceni	Name	
	y si ceni	Name	
Identity	y si ceni	Name	
Identity	y 31 Cent	Name	
Identity	y 31 Cent	Name	
Identity	y 31 CE 11	Name	
Identity	y 31 CE 11	Name	
	y 3 / Crini	Name	

- 5 From the Identities tab, click Add.
- 6 Browse to and specify the identities you want included in the report.
- 7 Click OK to close the Identity Browser.
- 8 Click Save to close the Report Definition Editor.
- 9 Generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

6.7 File Data Reports

Reports in this classification include Filename Extension, Owner, Duplicate File, and Date-Age, along with detailed versions of each of these reports.

Before generating any type of File Data report, you must first conduct a File System scan on the volumes or shares you want to report on.

- Section 6.7.1, "Generating a Filename Extension Report," on page 77
- Section 6.7.2, "Generating a Detailed Filename Extension Report," on page 78
- Section 6.7.3, "Generating an Owner Report," on page 79
- Section 6.7.4, "Generating a Detailed Owner Report," on page 80
- Section 6.7.5, "Generating a Duplicate File Report," on page 81
- Section 6.7.6, "Generating a Detailed Duplicate File Report," on page 82

- Section 6.7.7, "Generating a Date-Age Report," on page 84
- Section 6.7.8, "Generating a Detailed Date-Age Report," on page 85

6.7.1 Generating a Filename Extension Report

The Filename Extension report presents data grouped according to filename extension. This report is helpful for determining file types that you do not want stored on your network drives. For example, you can easily identify who is storing .MP3 or .MOV files.

NOTE: File extensions in File Reporter are limited to 32 characters. File extensions longer than 32 characters are considered part of the file name and not as an extension.

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Select the Filename Extension option and click OK.

Ame:* HQ Users Filename Extension Report Informatted:	't Definition	n Editor - London Users Filename Extension Re	port
ARGET PATHS FILE MANAGEMENT POLICIES FILTERS dd Remove	ime:*	HQ Users Filename Extension Report	
ARGET PATHS FILE MANAGEMENT POLICIES FILTERS dd Remove			
dd Remove	scription:	Report Definition created on 6/14/2018 10:06:40 AM by DYNAMICS\Administrator	
	ARGET PATH	S FILE MANAGEMENT POLICIES FILTE	85
Target Path	dd Remove	e	
	Target Pa	ath	

- 5 From the Target Paths tab, click Add.
- 6 Browse to and specify the file paths you want included in the report and click OK.
- 7 (Optional) Click the Filters tab and set the filters for the report.

For information on using the filtering capabilities of File Reporter, refer to Appendix A, "Filtering," on page 147.

8 Click Save.

9 Generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

10 (Optional) Generate a Detailed report on an individual file extension by clicking a file extension name in the report.

6.7.2 Generating a Detailed Filename Extension Report

A Detailed Filename Extension report is similar to a standard Filename Extension report, except you can filter the report to include only the files with the extension types you want.

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Select the Filename Extension Detail option and click OK.

Name		HQ Users Filename Extension Detail Report	Filename Extensions (no leading dot), one per line	
Unfor	matted:			
Type:		Filename Extension Detail Report		
Description:		Report Definition created on 6/14/2018 10:36:23 AM by DYNAMICS\Administrator		
TAR	GET PATHS	S FILE MANAGEMENT POLICIES FILTE	25	
Add	Remove			
	Target Pa	th		

5 In the Filename Extension field, specify the filename extensions you want included in the report by listing each on an individual line. Do not precede the filename extension with a period. For example:

mov jpg tmp

6 From the Target Paths tab, click Add.

- 7 Browse to and specify the file paths you want included in the report and click OK.
- 8 (Optional) Click the Filters tab and set the filters for the report.

For information on using the filtering capabilities of File Reporter, refer to Appendix A, "Filtering," on page 147.

- 9 Click Save.
- **10** Generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

6.7.3 Generating an Owner Report

An Owner report groups data according to file owners. If it is determined that certain users are using a disproportionate amount of storage, you can see what these users are storing and if they are justified in doing so.

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Select the Owner option and click OK.

ort Definit		
orr Denni	ion Editor - Atlanta Users Owner Report	
Name:*	Atlanta Users Owner Report	
Informatte	d: 🔲	
ype:	Owner Report	
)escription:	Report Definition created on 6/14/2018 11:05:53 AM by DYNAMICS\Administrator	
TARGET PA	THS FILE MANAGEMENT POLICIES FILTERS	
Add Rem	ove	
Targe	t Path	

- 5 From the Target Paths tab, click Add.
- 6 Browse to and specify the file paths you want included in the report and click OK.
- 7 (Optional) Click the Filters tab and set the filters for the report.

For information on using the filtering capabilities of File Reporter, refer to Appendix A, "Filtering," on page 147.

- 8 Click Save.
- 9 Generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

10 (Optional) Generate a Detailed report on an individual owner by clicking an owner's name in the report.

6.7.4 Generating a Detailed Owner Report

A Detailed Owner report is similar to a standard Owner report, except you can specify the users you want information on.

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Select the Owner Detail option and click OK.

port Definition	n Editor - Munich Us	sers Owner Detail Report			0
Name:*	Munich Users Owner D	Petail Report	i See Ow	vners tab below for selected identities.	
Unformatted:					
Type:	Owner Detail Report				
Description:	Report Definition crea DYNAMICS\Administra	ted on 6/14/2018 11:17:18 AM by ator			
OWNERS	TARGET PATHS	FILE MANAGEMENT POLICIES	FILTERS		
Add Remov	e				
# Identit	y System		Owner		Ļ
		No da	ta to display		
No data to pag	jinate < >				
				SAVE	CANCEL

- 5 From the Owners tab, click Add, then browse to and specify the owners you want in the report and click OK.
- 6 From the Target Paths tab, click Add, then browse to and specify the file paths you want included in the report and click OK.

7 (Optional) Click the Filters tab and set the filters for the report.

For information on using the filtering capabilities of File Reporter, refer to Appendix A, "Filtering," on page 147.

- 8 Click Save.
- 9 Generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

6.7.5 Generating a Duplicate File Report

A Duplicate File report indicates duplicate versions of files being stored and their locations. A principle objective for any organization determined to limit network storage usage should be the elimination of duplicate versions of files.

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Select the Duplicate File option and click OK.

Name:*	Atlanta Duplicate File Report	Match Size	
Unformatt	red:	Match Name	
Туре:	Duplicate File Report	Match Create Time	
Descriptio	n: Report Definition created on 6/14/2018 11:37:59 AM by DYNAMICS\Administrator	Match Modify Time	
	DTNAMICS (Administrator	Minimum Duplicates 2	\diamond
TARGET P	PATHS FILE MANAGEMENT POLICIES FILTERS		
Add Re	move		
Targ	get Path		

5 Use the check boxes and Minimum Duplicates field to specify the parameters for reporting. The more check boxes you select, the more likely it is that File Reporter can identify definitive duplicate files. **Match Size:** Specifies that files reported must have duplicate file sizes. This option cannot be deselected.

Match Name: Specifies that files reported must have duplicate names with other files.

Match Create Time: Specifies that files reported must have duplicate file creation times with other files.

Match Modify Time: Specifies that files reported must have duplicate file modification times with other files.

Minimum Duplicates: Specifies the minimum number of duplicate files, according to the parameters selected above, for inclusion in the report.

- 6 Browse to and specify the file paths you want included in the report and click OK.
- 7 (Optional) Click the Filters tab and set the filters for the report.

For information on using the filtering capabilities of File Reporter, refer to Appendix A, "Filtering," on page 147.

- 8 Click Save.
- 9 Generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

10 (Optional) Generate a Detailed report on a duplicate file by clicking a specific file name in the report.

6.7.6 Generating a Detailed Duplicate File Report

A Detailed Duplicate File report is similar to a standard Duplicate File report, except you can specify the exact filename to search for, along with exact create and modify times.

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Select the Duplicate File Detail option and click OK.

oort Definitio	n Editor - HQ Duplicate File Detail Report				
Name:" Unformatted: Type: Description:	HQ Duplicate File Detail Report Duplicate File Detail Report Report Definition created on 6/14/2018 12:05:04 PM by DYNAMICS\Administrator	Duplicate Criteria Name Size Create Time Modify Time	.▼ ▼	0 🔷	byte:
Add Remov	re				

5 In the **Duplicate Criteria** region, specify the file name size, and the dates and times that the file was created or modified.

IMPORTANT: When specifying Create or Modify times, the time entered must be exact down to the second. If a date range is required, do not enable the Create or Modify criteria here, but use the date filters in the **Filters** tab. For more information on filters, see Appendix A, "Filtering," on page 147.

- 6 Browse to and specify the file paths you want included in the report and click OK.
- 7 (Optional) Click the Filters tab and set the filters for the report.

For information on using the filtering capabilities of File Reporter, refer to Appendix A, "Filtering," on page 147.

- 8 Click Save.
- 9 Generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

6.7.7 Generating a Date-Age Report

The Date-Age report presents file count data according to when files were created, last accessed, or last modified. You can use this report to help you determine which files have not been accessed for a given amount of time and then decide whether to delete, archive, or move those files to less expensive storage.

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Select the Date-Age option and click OK.

Name	:*	HQ Users Date-Age Report	Date Type:	Create Time	*
Unfor	matted:		Detail Level:	Year	•
Type:		Date-Age Report			
Descr	iption:	Report Definition created on 6/14/2018 12:57:29 PM by DYNAMICS\Administrator			
TARG	GET PATH	5 FILE MANAGEMENT POLICIES FILTER	5		
Add	Remove				
	Target Pa	th			

5 In the Date Type drop-down menu, select an option.

Create Time: Reports when files were created.

Modify Time: Reports when files were last modified.

Access Time: Reports when files were last accessed.

6 In the Detail Level drop-down menu, select an option.

Year: Groups the file count in the report according to the year they were created, last modified, or last accessed.

Month: Groups the file count in the report according to the month they were created, last modified, or last accessed.

Day: Groups the file count in the report according to the calendar date they were created, last modified, or last accessed.

- 7 Browse to and specify the file paths you want included in the report and click OK.
- 8 (Optional) Click the Filters tab and set the filters for the report.

For information on using the filtering capabilities of File Reporter, refer to Appendix A, "Filtering," on page 147.

- 9 Click Save.
- **10** Generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

11 (Optional) Generate a Detailed report by clicking a specific year, month, or date in the report.Unlike the original Date-Age report that lists the data by file count, the generated Detailed report lists individual files.

6.7.8 Generating a Detailed Date-Age Report

A Detailed Date-Age report is similar to a standard Date-Age report, except you can specify the exact create, modify, or access date parameters.

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Select the Date-Age Detail option and click OK.

port Definition	Editor - Atlanta Shares Detailed Date-Age Repor	t		0
Name:*	Atlanta Shares Detailed Date-Age Report	Date Type:	Create Time 💌	
Unformatted: Type:	Date-Age Detail Report	Detail Level:	Year 💌	
Description:	Report Definition created on 6/14/2018 1:44:30 PM by DYNAMICS\Administrator	Selected Dates:		
			Enter one or more dates with the format yyyy-mm-dd one per line.	
Target Pa	th			
			SAVE	EL:

5 In the Date Type drop-down menu, select an option.

Create Time: Reports when files were created.

Modify Time: Reports when files were last modified.

Access Time: Reports when files were last accessed.

6 In the Detail Level drop-down menu, select an option.

Year: Groups the file count in the report according to the year they were created, last modified, or last accessed.

Month: Groups the file count in the report according to the month they were created, last modified, or last accessed.

Day: Groups the file count in the report according to the calendar date they were created, last modified, or last accessed.

7 In the Selected Dates field, specify the dates you want.

This indicates that only the files created, last modified, or last accessed on those dates will be included in the report.

- 8 Browse to and specify the file paths you want included in the report and click OK.
- 9 (Optional) Click the Filters tab and set the filters for the report.

For information on using the filtering capabilities of File Reporter, refer to Appendix A, "Filtering," on page 147.

- 10 Click Save.
- 11 Generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

6.8 Historic Comparison Reports

Historic Comparison reports specify the differences between two similar scan types of the same target system. For example, if you had a Previous Permissions scan of a Windows share and a Current Permissions scan of the same share, you could generate a Historic NTFS Permissions Comparison report that would specify the differences in permissions between the two points in time that the scans were taken.

Historic Comparison reports can compare the following:

- Baseline scans to Previous scans
- Baseline scans to Current scans
- Historic scans to Current scans

Reports in this classification include Historic File System Comparison, Historic NCP Permissions Comparison, and Historic NTFS Permissions Comparison.

- Section 6.8.1, "Generating a Historic File System Comparison Report," on page 86
- Section 6.8.2, "Generating a Historic NCP Permissions Comparison Report," on page 88
- Section 6.8.3, "Generating a Historic NTFS Permissions Comparison Report," on page 90

6.8.1 Generating a Historic File System Comparison Report

- 1 Select Reports > Report Definitions.
- 2 Click Add.

- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Under Historic Comparison, select the File System Comparison option, then click OK.

Name:*	Atlanta Historic File System Comparison Report	Limit Path Depth	10	• •
Unformatted:		Scans to Compare	Current and Previous	-
Туре:	Historic File System Comparison Report			
Description:	Report Definition created on 6/14/2018 2:39:18 PM by DYNAMICS\Administrator	QUERY FILTERS	DETAIL DISPLAY OPTIONS	
		Added Entries	V Files	
		Removed Entries	V Folders	
		Modified Entries		
		Include entries mo		
			Create Time Directory Quota	
		✓ Attributes		
		V Owner	Access Time	
TARGET PATH	15			
Add Remov	e			
Target P	ath			

5 (Conditional) If you want to limit the scope of the report to a set depth in the file structure, click the Limit Path Depth check box and specify the depth level.

For example, if you specify 3, the report lists the file contents of all file paths in the specified target paths up to 3 levels in the file structure.

If you do not specify a path depth, File Reporter will report on all levels of the specified target path.

6 From the Scans to Compare drop-down menu, select one of the following options:

Current and Previous: Compares the Current scan of the storage resource to the Previous scan of the storage resource.

Current and Baseline: Compares the Current scan of the storage resource to the Baseline scan of the storage resource.

Previous and Baseline: Compares the Previous scan of the storage resource to the Baseline scan of the storage resource.

All options appear whether you have scans or not. If you do not have scans, File Reporter will generate an empty report.

7 In the Query Filters region, specify whether to include the following metadata categories in the report:

Added Entries: If you want the report to list files or folders that have been added since the older scan, leave this check box selected.

Removed Entries: If you want the report to list files or folders that have been removed since the older scan, leave this check box selected.

Modified Entries: If you want the report to list files or folders that have been modified since the older scan, leave this check box selected.

Files: If you want the report to list files, leave this check box selected.

Folders: If you want the report to list folders, leave this check box selected.

- 8 In the Include entries modified by: region of the Query Filters, specify which of the attributes modified between the older and newer scan you want included in the report.
- 9 In the **Detail Display Options** region, identify whether to display the metadata categories specified below in the **Detail Data** section of the report.

The categories below pertain to the **Detail Data** section of the report only, and not the **Summary Data** section.

Added Entries: If you want the report to display this category, whether there are added entries to list or not, select this check box.

Removed Entries: If you want the report to display this category, whether there are removed entries to list or not, select this check box.

Modified Entries: If you want the report to display this category, whether there are modified entries to list or not, select this check box.

10 (Conditional) If you selected the Modified Entries check box, in the Always show modify detail for: region, select any of the category options you want displayed in the report whether these metadata categories have been changed between the two scans or not.

By default, the **Modified Entries** section of the report only shows metadata that has changed. The options in this region of the dialog box are to force the display of one or more particular metadata properties.

Any metadata for an entry that File Reporter has determined has changed is displayed in bold font. Any optional data that has not changed is displayed in regular font.

- 11 Browse to and specify the file paths you want included in the report, then click OK.
- 12 Click Save to close the Report Definition Editor.
- **13** Generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

6.8.2 Generating a Historic NCP Permissions Comparison Report

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Select the Historic NCP Permissions option, then click OK.

Name:*	CCTEC Vol 1 NCP Permissions Comparison	Limit Path Depth		100 🔇
Informatted:		Scans to Compare	Current and Previous	
уре:	Historic NCP Permissions Comparison Report	-		
Description:	Report Definition created on 6/14/2018 2:57:04 PM by DYNAMICS\Administrator	Include Removed	Paths	
TARGET PATH	ts			
Add Remov	e			
Target P	Path			
Target P	Path			
Target P	Path			
Target F	Path			
Target F	Path			
Target F	Path			
Target P	ath			
Target F	Path			

5 (Conditional) If you want to limit the scope of the report to a set depth in the file structure, click the Limit Path Depth check box and specify the depth level.

For example, if you specify 3, the report lists the permissions of file contents of all file paths in the specified target paths up to 3 levels in the file structure.

If you do not specify a path depth, File Reporter will report on all levels of the specified target path.

6 From the Scans to Compare drop-down menu, select one of the following options:

Current and Previous: Compares the Current scan of the storage resource to the Previous scan of the storage resource.

Current and Baseline: Compares the Current scan of the storage resource to the Baseline scan of the storage resource.

Previous and Baseline: Compares the Previous scan of the storage resource to the Baseline scan of the storage resource.

All options appear whether you have scans or not. If you do not have scans, File Reporter will generate an empty report.

- 7 (Conditional) If you do not want the report to list any paths that have been deleted or removed, deselect the **Include Removed Paths** check box.
- 8 Browse to and specify the file paths you want included in the report, then click OK.
- 9 Click Save to close the Report Definition Editor.
- 10 Generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

6.8.3 Generating a Historic NTFS Permissions Comparison Report

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Select the Historic NTFS Permissions option, then click OK.

Name:*	Atlanta Users Historic NTFS Comparison Report	Limit Path Depth	100 💠	
Unformatted: Type: Description:	Historic NTFS Permissions Comparison Report Report Definition created on 6/14/2018 3:18:31 PM by DYNAMICS\Administrator	Scans to Compare Include Inherited AC		
TARGET PATH	HS			
Add Remov				
Target P	Path			

5 (Conditional) If you want to limit the scope of the report to a set depth in the file structure, click the Limit Path Depth check box and specify the depth level.

For example, if you specify 3, the report lists the permissions of file contents of all file paths in the specified target paths up to 3 levels in the file structure.

If you do not specify a path depth, File Reporter will report on all levels of the specified target path.

6 From the Scans to Compare drop-down menu, select one of the following options:

Current and Previous: Compares the Current scan of the storage resource to the Previous scan of the storage resource.

Current and Baseline: Compares the Current scan of the storage resource to the Baseline scan of the storage resource.

Previous and Baseline: Compares the Previous scan of the storage resource to the Baseline scan of the storage resource.

All options appear whether you have scans or not. If you do not have scans, File Reporter will generate an empty report.

7 (Conditional) If you want your report to include not only direct permissions, but inherited permissions, select the Include Inherited ACEs check box.

Reporting inherited permissions could make the report significantly larger.

- 8 (Conditional) If you do not want the report to list any paths that have been deleted or removed, deselect the Include Removed Paths check box.
- 9 Browse to and specify the file paths you want included in the report, then click OK.
- 10 Click Save to close the Report Definition Editor.
- **11** Generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

6.9 Trending Report

Currently, the only report in this classification is the Volume Free Space report. Before generating a Volume Free Space report, you must first conduct a Volume Free Space scan on the volumes or shares you want to report on.

6.9.1 Generating a Volume Free Space Report

The Volume Free Space report lets you view available volume or share disk space over a set amount of time. For best results, you should conduct regularly scheduled Volume Free Space scans on specific volumes and shares. File Reporter then has the data it needs to graph the pattern of free space on the volume or share.

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Select the Volume Free Space option and click OK.

eport Definition	n Editor - SFO Volume Free Space Report		8
Name:*	SFO Volume Free Space Report	Last number of days to include 365 🗘	
Unformatted:			
Type:	Volume Free Space Trending Report		
Description:	Report Definition created on 6/14/2018 3:55:00 PM by DYNAMICS\Administrator		
TARGET PATH	IS		
Add Remov	e		
Target P	ath		
		SA	CANCEL

5 In the Last number of days to include field, specify the last number of days you want the report to include.

For example, if you want the report to graph the last month, enter 30.

The lowest number you can specify is 7.

- 6 Browse to and specify the volumes or shares you want included in the report and click OK.
- 7 Click Save.
- 8 Generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

6.10 Custom Query Reports

Custom Query Reports are reports that are generated through a series of SQL commands that you enter. These commands enable you to generate very specific detail in reports that are not available through the built-in report types in File Reporter.

The SQL commands must be specific to the database (Microsoft SQL Server or PostgreSQL) that your deployment of File Reporter is utilizing.

NOTE: For details and examples of the supported database functions, tables, and views that you can utilize in Custom Query reports, refer to the *Micro Focus File Reporter 3.6 Database Schema and Custom Queries Guide*.

SQL commands are entered through report editors available from the File Reporter browser-based administrative interface and from the Report Designer client tool.

IMPORTANT: Prior to the release of version 3.0, File Reporter supported the active_fs_scandata view, which was then deprecated, but not removed. That view has now been removed to support File Reporter's current and previous naming parameters. If you have existing Custom Query reports that include the active_fs_scandata view, you will need to replace each instance with current_fs_scandata.

NOTE: For details on using the report editor in the Report Designer, see Section 11.3, "Designing a Custom Query Report," on page 135.

TIP: Don't forget to utilize File Query Cookbook as a resource for obtaining SQL commands and sample report layouts that have been submitted by the File Reporter community. Both the SQL commands and report layouts can be customized as needed.You can access the File Query Cookbook directly through the Report Designer interface, or at http://www.filequerycookbook.com.

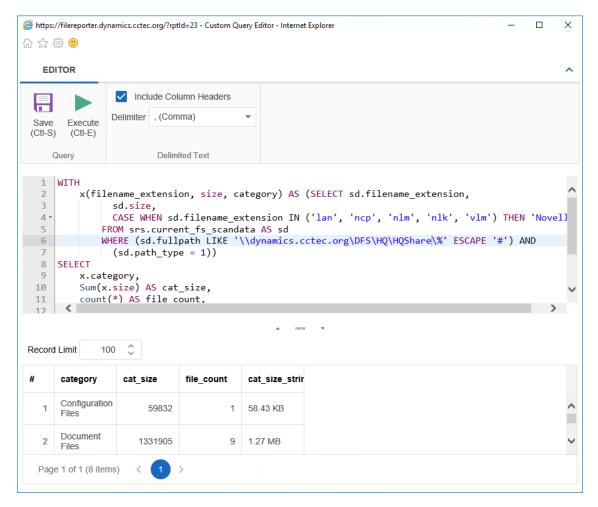
- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name for the report definition.
- 4 Select Custom Query Report.

Attps://filereporter.dynamics.cctec.org/?rptld=23 - Custom Query Editor - Internet Explorer	-	Х
슈 ☆ ⁽¹⁾ 🔅 🙂		
EDITOR		^
Save Execute (CtI-S) (CtI-E) Query Delimited Text		
Query Delimited Text		
Record Limit 100 🗘		
Drag a column here		
No data to display		^
		\sim
No data to paginate < >		

5 Enter the SQL commands according to what information you want included in your report.

As you enter commands, you can click **Execute** to get a preview in the bottom portion of the editor of how the report will appear.

The **Row Limit** setting does not limit the size of the report. Instead, it limits the how much can be previewed.



- 6 When you are satisfied with the report and the previewed results, click Save.
- 7 Close the Custom Query Report Editor.
- 8 Select Reports > Report Definitions.
- **9** Select the Custom Query Report you just saved and generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

6.11 Unformatted Reports

File Reporter allows you to generate unformatted reports. In some instances, having an unformatted report might be useful for doing extensive sorting and filtering of the report data using a product such as Microsoft Excel.

File Reporter can generate an unformatted report for all built-in report types except for Summary reports.

You can generate unformatted reports by selecting the option in the Add Report Definition dialog box or by selecting the **Unformatted** check box in the Report Definition Editor dialog box.

6.11.1 Generating Unformatted Reports

- 1 Select Reports > Report Definitions.
- 2 Click Add.
- 3 In the Name field, specify a descriptive name of the report definition.
- 4 Select the report type you want to generate.
- 5 Select Create report as Unformatted.

Add Report Def	inition			٢
Name:*	Unformatted HQ Users Filename E	xtension Report		
Unformatted:	Create report as Unformatted	(for use with Text, Csv, or XIs export	s)	
Directory Da	ta	File Data		
O Summar	Y	Filename Extension	O Filename Extension Detail	
O Director	y Quota	O Owner	O Owner Detail	
O Storage	Cost	O Duplicate File	O Duplicate File Detail	
O Compari	ison	O Date-Age	O Date-Age Detail	
Permissions		Historic Comparison		
O Assigne	d NCP Permissions	O File System Compariso	on	
O Assigne	d NTFS Permissions	O NCP Permissions Com	parison	
O Permiss	ions by Path	O NTFS Permissions Cor	mparison	
O Permiss	ions by Identity			
Trending		Custom Query		
O Volume	Free Space	O Custom Query Report		
			OK CANCE	L

6 Click OK.

- 7 In the Report Definition Editor, specify the settings and the file paths you want included in the report, then click OK.
- 8 Click Save.
- 9 Generate the report as either a Preview report or a Stored report.

For procedures on generating a Preview report, see "Generating a Preview Report" on page 64. For procedures on generating a Stored report, see "Generating a Stored Report" on page 66.

- 10 From the file type drop-down menu, select either XLS, XLSX, Text, or CSV.
- **11** Click the Export a Report and Save it to the Disk button.
- 12 Select Save File and click OK.

6.12 Micro Focus File Dynamics and Storage Manager Policy Reports

In most reports, you browse to and specify a file path for the report through the **Target Paths** tab. If you have either Micro Focus File Dynamics or Micro Focus Storage Manager managing your organization's user and collaborative storage, you can have File Reporter report on the storage according to the target paths of the File Dynamics or Storage Manager policies, rather than through a specific file path.

IMPORTANT: File Reporter 3.6 supports File Dynamics 6.0 and Storage Manager 4.0 or above.

The advantages to specifying a File Dynamics or Storage Manager policy rather than a file path is that a policy can include many different target paths. For example, in a large organization that utilizes File Dynamics' or Storage Manager's load balancing capabilities, a single policy might have 10 or more target paths. If you chose to specify the paths through the **Target Paths** tab, you would need to list all 10 paths. But if you have each of the target paths listed in a single policy, through the **File Management Policies** tab, all you need to do is add the single policy.

Another important advantage is that File Reporter reads the associated policy target paths each time a report is generated, so that it dynamically responds to changes in assigned target paths for File Dynamics or Storage Manager policies.

NOTE: Procedures for integrating File Reporter with File Dynamics or Storage Manager are included in Section 4.5, "Integrating with File Dynamics or Storage Manager," on page 40.

You can specify policies for all File Reporter reports with the exception of Comparison reports, Permissions by Identity reports, and Volume Free Space reports.

6.13 Scheduling Reports

You can generate reports on a one-time or regularly scheduled basis.

- 1 Select Reports > Report Definitions.
- 2 From the list of report definitions, select one that is not scheduled.
- 3 Select Schedule > Edit Schedule.

SCHEDULE START		
Engine Local Time:*	12:00 AM	\$
Engine Local Start Date:*	6/15/2018	Ŧ
SCHEDULE RECURRENCE		
O Once		
O Daily		
O Weekly Friday	-	
O Monthly		
Day 1	of every month	
O The First	▼ Sunday	▼ of every month

Engine Local Time: Specify the time that you want the report to generate.

The time you select should be based on the time zone where the Engine is located and not the workstation where you are accessing the Web application.

Engine Local Start Date: Specify the date when you want the report schedule to take effect.

Be aware that entering a date does not mean that the report generates on that date. If the Engine Local Start Date is set for today, which is a Monday, but the **Schedule Recurrence** setting is set for Weekly on Sunday, the report does not generate until Sunday.

Once: Select this option to schedule the report to be generated only once.

Daily: Select this option to schedule the report to be generated daily.

Weekly: Select this option and specify a weekday to generate the report.

Monthly: Select this option and specify a day to generate the report each month.

4 Specify the scheduling parameters and click OK.

The new schedule is displayed in the Schedule column of the Report Definitions page.

6.14 Editing a Scheduled Report

- 1 Select Reports > Report Definitions.
- 2 From the list of report definitions, select one whose schedule you want to edit.
- 3 Select Schedule > Edit Schedule.
- 4 Make the schedule changes you want.
- 5 Click OK.

6.15 Clearing a Schedule on a Scheduled Report

- 1 Select Reports > Report Definitions.
- 2 From the list of report definitions, select one whose schedule you want to clear.
- 3 Select Schedule > Clear Schedule.
- 4 When the confirmation screen appears, click Yes.

The status of the report definition appears in the Schedule column as Not Scheduled.

6.16 Copying a Report Definition

To save time in creating a new report definition and its associated properties, you can copy an existing report definition.

When you copy a built-in report, the following properties are included:

- Report Parameters
- Report Targets Paths
- Report Identity Targets
- Filters
- File Dynamics or Storage Manager Policies

When you copy a Custom Query report, the following properties are included:

- SQL Query
- Report Layout

NOTE: Copying a report definition does not copy the content in the **Description** field, nor does it copy the report schedule.

- 1 Select Reports > Report Definitions.
- 2 From the list of report definitions, select one that you want to copy.
- **3** From the taskbar, click **Copy**.

Copy Repo	rt Definition
Source	HQ Share and HQ Users Comparison Report
Target	Copy of HQ Share and HQ Users Comparison Report
	COPY CANCEL

4 Click Copy.

The new report definition is added to the list of report definitions with the name *Copy* of preceding the name of the original report definition.

- 5 Select the copy of the report definition.
- 6 From the taskbar, select Rename.

Rename Repo	ort Definition	0
New Name	Copy of HQ Share and HQ Users Comparison	Report
	RENAME	CEL

- 7 In the New Name field, specify a name for the new report definition, then click Rename.
- 8 From the taskbar, select Schedule > Edit Schedule.
- 9 Set the scheduling parameters for the new report definition, then click OK.
- **10** From the taskbar, click **Edit**.
- 11 In the Description field, enter a new description.
- 12 Click Save.

6.17 Viewing Reports in Progress

When you generate large reports, you can view the progress in the Reports in Progress page.

- 1 Select Reports > Reports in Progress.
- 2 Click Refresh.

When the report disappears from the list, the report generation has completed.

6.18 Troubleshooting Reports

If there is potential for a reporting problem, File Reporter provides notifications to help resolve the issue. The following points might also be helpful.

- 1 Verify that a scan exists for the storage resources you want to report on.
- 2 If your reports include too much data to be useful, narrow the scope of the report by implementing filters. For more information, see Appendix A, "Filtering," on page 147.

7 Content Scanning and Reporting

In addition to generating file system, permissions, and trending reports, File Reporter customers also have the ability to analyze their files based on content. By analyzing content, organizations can locate files containing confidential, sensitive, and personal information that should be given restricted access, moved to a more secure location, or deleted.

All File Content procedures are performed through the File Content menu options.

7.1 Creating File Content Classifications

File content classifications are needed by File Reporter as a search parameter. For your convenience, File Reporter includes three classifications and severity levels. You can modify this list by editing the settings or creating your own classifications.

7.1.1 Creating a New Classification

- 1 Select File Content > Classifications.
- 2 Click Add.

Classification		0
Classification:*		
Level:*		\$
Description:		
	Update	Cancel

3 In the Classification field, enter a name.

For example, Private.

- **4** From the **Level** field, specify a severity level for the new classification. For example, 400.
- 5 In the **Description** text box, enter a description for the new classification.

For example, High-risk private information, not for public disclosure.

6 Click Update.

7.1.2 Editing a Classification

- 1 Select File Content > Classifications.
- 2 Select the classification you want to edit.
- 3 Click Edit.
- 4 Edit the fields.
- 5 Click Update.

7.2 Creating File Content Categories

Categories are an additional way of refining your search parameters. For your convenience, File Reporter includes three standard categories. You can modify this list by creating your own classifications.

7.2.1 Creating a New Category

- 1 Select File Content > Categories.
- 2 Click Add.

Category		0
Category:*		
Description:		
	Update	Cancel

3 In the Category field, enter a name.

For example, National ID.

- **4** In the Description text box, enter a description for the new category. For example, US SSNs as well as other national ID schemes.
- 5 Click Update.

7.2.2 Editing a Category

- 1 Select File Content > Categories.
- 2 Select the category you want to edit.
- 3 Click Edit.
- 4 Edit the fields.
- 5 Click Update.

7.3 Creating Search Patterns

Search patterns specify the conditions for the content scanning, along with how you want to classify and categorize the results.

File Reporter utilizes regex search strings for conducting content scanning. Regex is short for "regular expression," a special text string describing and defining a search pattern. Regex search strings are ideal for locating files containing specified patterns (e.g. Social Security numbers, credit card numbers, etc.) or other user-defined patterns.

7.3.1 Creating a New Search Pattern

- 1 Select File Content > Search Patterns.
- 2 Click Add.

Search Pattern		۵
Name:*		
Classification:*	•	
Category:*	•	
Match Confidence:*	·	
Regex Options:	•	
Search String:*		
Description:		
Description		
	Update Cance	el

3 In the Name field, enter a descriptive name for the search pattern.

For example, Social Security US - High.

Names are restricted to A-Z, a-z, 0-9, space, - (hyphen), and (underscore).

- 4 From the Classification drop-down menu, select a classification.
- 5 From the Category drop-down menu, select a category.
- 6 From the Match Confidence drop-down menu, select either Low, Medium, or High.

These designations allow you to indicate your confidence in the search pattern. Selecting **High** does not necessarily make the match confidence better than selecting **Low**. It simply indicates your confidence in results of the search, based on the depth of the Regex search string. For example, a search for all Social Security numbers might be **Low**, while a search for a particular Social Security number specified in the regex string would be **High**.

7 In the Regex Options drop-down menu, select any applicable options.

For an explanation of these options, we recommend referring to this document (https:// docs.microsoft.com/en-us/dotnet/standard/base-types/regular-expression-options) published by Microsoft.

8 In the Search String text box, enter or paste the search string.

Note that this version of File Reporter does not yet include an interface for developing regex search strings.

For basic information and tutorials on compiling regular expression search strings, see the following sites:

- https://regexone.com
- https://www.regular-expressions.info/tutorial.html
- https://www.rexegg.com

For cases where different regex Engines or languages are mentioned, note that this version of File Reporter makes use of the C# (.NET) regular expression variant.

Additionally, we will provide a variety of regex search strings on filequerycookbook.com (https://www.filequerycookbook.com).

9 In the **Description** text box, enter a description of the search pattern.

Search Pattern			e
Name:•	Social Security US - High		
Classification:*	Restricted	v	
Category:*	PII	•	
Match Confidence:*	High	•	
Regex Options:	None	•	
Search String:*	$\label{eq:linear} $$ \frac{1}{(1/s+)(d)1+(-1/1/s+)(d)1+(b)(2)(1/s+)(2)(d)(4))(d(4))b} $$$.23(- _\\s+)6789 219(- _ \s+)09(- _ \s+)9999 078(- _ \s+)05(- _ \s+)1120)(?!666 000 9\d{2})\d{3}(-
Description:	Search string that looks for the pattern of a Social	Security number but leaves out known numbers that are not in circulation.	
		Update Cancel	

10 Click Update.

7.3.2 Editing a Search Pattern

- 1 Select File Content > Search Patterns.
- 2 Select the search pattern you want to edit.
- 3 Click Edit.

- 4 Edit the fields.
- 5 Click Update.

7.4 Creating Job Definitions

A job definition specifies the file system paths where the content scanning will take place, the search patterns that will be applied, the filters for the search, and where the content scanning results will be stored.

7.4.1 Creating a New Job Definition

- 1 Select File Content > Job Definitions.
- 2 Click Add.

me:*					Result Type:*	Ŧ
TARG	ET PATHS	SEARCH PATT	TERNS	FILTERS		
Add	Remove					
	Target					

- 3 In the Name field, enter a descriptive name for the job definition.
- 4 From the Result Type menu, select from the following options:
 - **Database:** This option saves the results of the content scan to the database, where you can use it to generate a report using the Report Designer. Having the scan in the database also allows you to search and report utilizing the established classifications and categories.
 - File: This option saves the results of the content scan as a file in the Search Results share. You can access all saved files through the Search Results page.
- 5 From the Target Paths tab, click Add.

Scan Data Browser - File System Data	Ø
 dynamics.cctec.org 	
Image: Atlanta Atla	
Image: Advised to the second secon	
Image:	
Image:	
Image:	
Idynamics.cctec.org\DFS\Munich\MunichUsers	
OK CANCE	L]

6 Select the targets where you want the file content to be scanned.

IMPORTANT: File paths appear in the Scan Data Browser - File System Data dialog box only if the paths have had a previous file system scan. If the path you want does not appear in the dialog box, you must first conduct a file system scan on the path.

- 7 Click OK.
- 8 Click the Search Patterns tab.
- 9 Click Add.

Search	Patterns Browser						Θ
	Name	ŤΤ	Category	T	Classification	т	
		т		T		T	
	Social Security US - High		PII		Restricted		*
	Social Security US - Low		PII		Restricted		
							-
					ок	CANCEL	

- 10 From the Search Pattern Browser, select specify your search patterns and click OK.
- 11 Click the Filters tab.
- 12 In the Maximum File Size field, specify the size of files that will not be scanned for content.

For example, large files such as ISO files should probably not be scanned. If you do not enter a setting in this field, all files in the file path will be scanned.

13 In the File Extensions text box, specify the file types that you want scanned.

If you do not specify file extensions, all files in the file path will be scanned.

ame:*	US Social Security Atlanta Users			Result Type:*	Database, File	-
TARG	ET PATHS	SEARCH PATTERNS	FILTERS			
Maxin	num File Size:	0 \$	MB (Value	of 0 is unlimited size)		
File Ex	ctensions:	pptx ppt docx doc xls xlsx pdf txt rtf xps Enter filename extensions, o	lia uitte			

14 Click Update to save the job definition settings.

7.4.2 Editing a Job Definition

- 1 Select File Content > Job Definitions.
- 2 Select the job definition you want to edit.
- 3 Click Edit.
- 4 Edit the fields.
- 5 Click Update.

7.5 Viewing Jobs in Progress

You can view the status of file content scanning jobs in progress by selecting File Content > Jobs in Progress.

			CLASSIFICATIONS CATEGORIES	SEAR	RCH PATTERNS JOB DEFINITIONS	JOBS IN PROGRESS SCAN DATA	SEARCH RESULTS SCAN AGENTS	
3 🖙	ncer S Re	fresh				2		
ig e ci	dumi heeder here	10 grou	p by that column					
	Job ID		Job Definition	1	Files Submitted	Files Processed	Status Code	Status Message
		τ		Τ		т т	τ	
ם		21	US Social Security Atlanta Users		1	3 2 (15%)	Processing	Processing

7.6 Viewing Scanned Data Jobs

You can view a list of file content scan jobs by selecting File Content > Scan Data.

CLASSIFICATIONS CATEGORI	ES SEARCH PATTERNS .	IOB DEFINITIONS JOB	5 IN PROG	RESS SCAN D		SEARCH RESULTS SCAN AGENTS			
Delete SRefresh									
1 dol									
Full Path	Scan Time	Classification	Τ	Category	т	Matched Search Pattern	т	Confidence	т
7	- T		Ŧ		Ŧ		T		T
Job: US Social Security Atlanta Users - 21 (3 entries)									
\\dynamics.cctec.org\DF5\Atlanta\AtlantaUsers\ajames\test.txt	6/21/2018 4:14:04 PM	Restricted		PII		Social Security US - Low (1 match)			Low
\\dynamics.cctec.org\DFS\Atlanta\AtlantaShare\Atlanta									
Employees\TemplatePatterns.xlsx	6/21/2018 4:14:02 PM	Restricted		PII		Social Security US - High (4 matches)			High
\\dynamics.cctec.org\DFS\Atlanta\AtlantaShare\Atlanta Employees\TemplatePatterns.clsx	6/21/2018 4:14:02 PM	Restricted		РШ		Social Security US - Low (1 match)			Low
Job: US Social Security Atlanta Users - 20 (3 entries)									
Job: US Social Security Atlanta Users - 19 (3 entries)									
Job: US Social Security Atlanta Users - 18 (3 entries)									
Job: US Social Security Atlanta Users - 17 (3 entries)									
Job: US Social Security Atlanta Users - 16 (1 entries)									
Job: US Social Security Atlanta Users - 15 (1 entries)									
Page 1 of 1 (14 Hems) <									

7.7 Viewing Search Results

For those job definitions where the **Result Type** setting is set to **File**, you can download the file content scan file from the Search Results page.

File Reporter outputs the file as a CSV file so that if you desire, you can import the file into the Micro Focus File Dynamics Data Owner Client where a Data Owner can perform remediation work.

	CLASSIFICATIONS CATEGOR	RIES SI	EARCH PATTERNS JOB DE	FINITIONS	JOBS IN PROGRESS S	CAN DATA SEARCH RESULTS	SCAN AGENTS
	slete 😽 Refresh						
De	sere Kerresn						
g a c	column header here to group by that column						
]	Result File	Ť	Job Status		File Size	Last Modify Time	
		т		T	T	- T	
]	US Social Security Atlanta Users-10.csv		Completed		340 bytes	6/19/2018 3:14:22 PM	
כ	US Social Security Atlanta Users-12.csv		Completed		340 bytes	6/19/2018 5:34:39 PM	
כ	US Social Security Atlanta Users-13.csv		Completed		340 bytes	6/19/2018 5:48:53 PM	
]	US Social Security Atlanta Users-14.csv		Completed		346 bytes	6/19/2018 5:58:43 PM	
כ	US Social Security Atlanta Users-15.csv		Completed		346 bytes	6/19/2018 5:59:01 PM	
]	US Social Security Atlanta Users-16.csv		Completed		346 bytes	6/19/2018 5:59:16 PM	
ו	US Social Security Atlanta Users-17.csv		Completed		941 bytes	6/19/2018 6:00:07 PM	
כ	US Social Security Atlanta Users-18.csv		Completed		938 bytes	6/20/2018 10:05:01 AM	
	US Social Security Atlanta Users-19.csv		Completed		938 bytes	6/21/2018 12:13:08 PM	
	e 1 of 1 (11 items) < 1 >						

7.8 Viewing AgentFC Configuration Registrations

You can view the version, and the last heartbeat for each deployed AgentFC by selecting File Content > Scan Agents.

g e cols	urren b	header here to group by thet column								
כ		Host Name †	Version	Last Heartbeat	OS Version	OS Description	Java Version	Tika Version	OCR	Status
	0	cctec2.dynamics.cctec.org	3.5.0,20	6/21/2018 1:53:12 PM	10.0.14393.0	Windows Server 2016 Standard (Build 14393) Release 1607	openjdk version *1.8.0-adoptopenjdk* OpenJDK Runtime Environment (build 1.8.0-adoptop OpenJDK 64-Bit Server VM (build 25.71-b00, mixed r	Apache Tika 1.18		Ready
1	0	ccrec2.dynamics.ccrec.org	3.5.0,20	0/21/2018 1:53-12 PM	10.0.14343.0	(Build 14393) Release 1607		Apache lika 1.18	U	Keady

Performing Other Administrative Tasks

This section provides procedures for performing administrative tasks not covered in the previous sections.

- Section 8.1, "Stopping and Restarting Services," on page 111
- Section 8.2, "Using Folder Summary," on page 112
- Section 8.3, "Considerations for Reporting on NAS Devices," on page 113
- Section 8.4, "Changing the Default Path for Stored Reports," on page 114
- Section 8.5, "Changing the Life Span of Stored Reports," on page 115
- Section 8.6, "Resetting the Proxy User Password," on page 115

8.1 Stopping and Restarting Services

Use the Configuration Dashboard to stop and restart the Engine, Web Application, Web Service, Web Site, and Application Pool.

Figure 8-1 Configuration Dashboard

le Reporter Configuration Dashboard	5.5.0	_ □
🌄 Database	Configured Database Type: SQL Server - Standard Edition (64-bit) Database Version: Microsoft SQL Server 2017 (RTM) - 14.0.1000.169 Database Name: srsdb Database User: srsadmin Address: 172.17.2.21:1433 Schema Version: 3.5.0.1	<u>Configure Database</u>
Ticense	Valid license Product: Micro Focus File Reporter License Type: Production Expiration: 5/25/2019 4:42:12 PM Identity System: dynamics.cctec.org Platform: Active Directory Features: Active Directory Reporting eDirectory Reporting Content Analysis	Install or Update License
Engine	Running Address: 0.0.0.0:3035 Admin Group: DYNAMICS\\$rsAdmins Communications Group: DYNAMICS\\$rsCommunications Proxy User: DYNAMICS\\$rsProxy Rights Group: DYNAMICS\\$rsProxyRights Engine Timezone: (UTC -04:00) Eastern Daylight Time	Configure Engine Stop Engine Stop Scan Processor
Web Application	CRUNNING Web Site: SrsSite AppPool: SrsAppPool AppPool Identity: DYNAMICS\SrsAppPoolSvc Disk Path: C:\inetpub\srs_root\ Https Listeners: [All IP Addresses]:443 Hostname: filereporter.dynamics.cctec.org AppPool Recycle Time: 03:00:00	Configure Web Application Stop Web Service Stop Web Site Stop Application Pool
Active Directory forest 'dynamics.cctec.or Poirectory available via Client for Open Fr	g' available - joined to domain DYNAMICS hterorise Server 2 SP4 (IR7) 5,1 SP 4 Build 20170920	G Refresh Close

8.2 Using Folder Summary

The Folder Summary feature provides you a visual folder structure according to the latest scanned file system data. Folder Summary also provides extensive summary information for the folders and files.

You can access Folder Summary by selecting **Reports > Folder Summary**.

Figure 8-2 Folder Summary

			REPORT DEFINITIONS	REPORTS IN PROC	RESS FOLDE		STORED REPORT	s	
			REPORT DEFINITIONS	REPORTS IN PROV			TONED REPORT	3	
Export Pdf	👻 🕄 Refresh								
Path		Ť	Scan Start Time	File Size	File Count	Folder Count	Folder Quota	% of Parent Folder Size	X of Total Size
CCTEC_TREE									
dynamics.ccte	ec.org								
• 💦 \\dynamics	s.cctec.org\DFS\Atlanta\Atla	antaShare	6/15/2018 12:48:26 PM						
* 💽 \\dynamics	s.cctec.org\DF5\Atlanta\Atla	antaUsers	6/15/2018 12:48:26 PM						
• 🔤 \				222 MB	5	34		100	100
* R \\dynamics	s.cctec.org\DFS\HQ\HQShar	e	6/15/2018 12:48:27 PM						
• 🞫 \				56 MB	60	269		100	100
	s.cctec.org\DFS\HQ\HQUse	15	6/15/2018 12:48:27 PM						
• 🚞 \				93 MB	2	22		100	100
	s.cctec.org\DFS\Munich\Mu		6/18/2018 12:00:00 AM						
 Reinight //dynamics 	s.cctec.org\DFS\Munich\Mu	nichUsers	6/15/2018 12.00.00 AM						

You can print, save, or export the data as a PDF or XLS file.

8.3 Considerations for Reporting on NAS Devices

In Active Directory network environments, File Reporter can report on the contents of Network Attached Storage (NAS) devices. Integration information for reporting on specific NAS device types is found below.

- Section 8.3.1, "NetApp filer," on page 113
- Section 8.3.2, "EMC Isilon," on page 114
- Section 8.3.3, "Other NAS Devices," on page 114

8.3.1 NetApp filer

For a NetApp filer device, configuration is very simple because the device does not fully emulate a Windows Server at the operating system level.

- 1 Use the NetApp filer administration utility to join the NAS device to a domain where File Reporter can report.
- 2 Grant the proxy rights group membership in the NAS device's built-in Administrators group.
- **3** Grant the proxy rights group the folder share permissions that are required to access the storage.

There are no LSA rights and privileges to grant on a NetApp filer NAS device.

8.3.2 EMC Isilon

Perform the following steps to integrate an EMC Isilon device. You can use these same steps to see if other NAS devices integrate with File Reporter.

- 1 Rebuild the storage resources and verify that the NAS device is displayed on the list.
- **2** Perform any needed steps for giving the proxy rights group access to the desired shares and folders on the NAS device.

8.3.3 Other NAS Devices

Perform the following steps to see if other NAS devices integrate with File Reporter.

1 In the associated Computer object in Active Directory, add the following text somewhere in the description attribute for that object:

SRGenericNASDevice

- 2 Rebuild the storage resources and verify that the NAS device is displayed on the list.
- **3** Perform any needed steps for giving the proxy rights group access to the desired shares and folders on the NAS device.

8.4 Changing the Default Path for Stored Reports

The default path for stored reports is established during the installation of the Engine. If you want to change the file path, you can do so if the new path is on the server hosting the Engine and Web application.

Because both the Web application and the Engine via the Stored Reports DLL need access to the report files, the service accounts those processes run as must have both Read and Write access to the specified path. For the Engine, this is the Windows Proxy Account; for eDirectory (or the "service account" when running in eDirectory mode) and for the Web Application, this is the associated IIS AppPool Identity, which is a hidden account created by Windows and tied to the Application Pool when the Web service was configured.

If you create a new folder for the stored reports, you must assign Read and Write access for the associated Windows server/proxy account to that folder, as well as the AppPool Identity. Because you cannot browse for the AppPool Identity, you need to use the name of the AppPool itself:

Select Users, Computers, Service Accounts, or Groups	×
Select this object type:	
Users, Groups, or Built-in security principals	Object Types
From this location:	
dynamics.cctec.org	Locations
Enter the object names to select (examples):	
SrsAppPoolSvc	Check Names
Advanced	OK Cancel

File Reporter does not move previously generated reports to the new location.

- 1 Select Configuration > Stored Reports.
- 2 In the Stored Reports Folder field, specify a new path.
- 3 Click Save Changes.

8.5 Changing the Life Span of Stored Reports

By default, stored reports are available for access for 30 days. You can adjust this setting by following the procedures below.

NOTE: You can always save a Preview or Stored report locally so it remains accessible indefinitely.

- 1 Select Configuration > Stored Reports.
- 2 In the **Default Expiration** field, adjust the setting.
- 3 Click Save Changes.

8.6 Resetting the Proxy User Password

If the proxy user password is not working, you can reset it through the Engine Configuration Utility. As part of the configuration process, it resets the proxy user password.

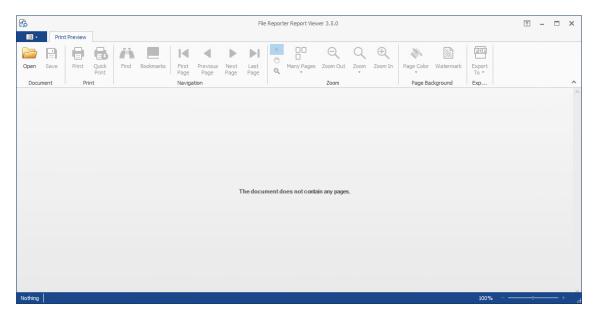
9 Using the Report Viewer

NOTE: The Report Viewer is installed as a separate application, rather than part of the Client Tools. This is so both administrators and other users who need access to the reports, can access saved reports.

9.1 Use the Report Viewer

The Report Viewer lets you to view all stored reports locally from a Windows workstation. Because the Report Viewer utilizes the resources of the Windows workstation, rather than those of the Engine, the Report Viewer can display stored reports much faster in most instances.

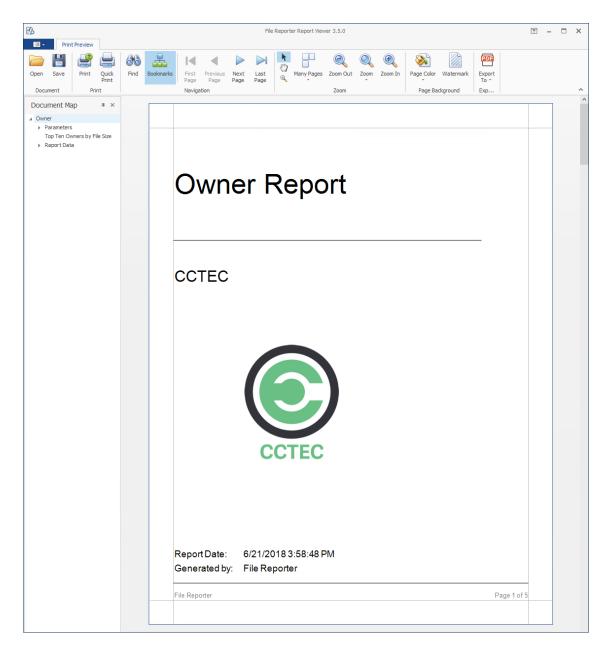
In comparison to the viewing capabilities of the browser-based administrative interface, the Report Viewer offers more capabilities. For example, with the Report Viewer you can change the visual display parameters of the report.



1 Launch the File Reporter File Viewer application.

2 Click Open, browse to the location of your stored reports, then click Open.

To determine where stored reports are located, in the File Reporter administrative interface, select **Configuration > Stored Reports** and view the location in the **Stored Reports Folder** field.



3 (Optional) Adjust the view to your preferences using the tools discussed below.

Bookmarks: Click to toggle between the report **Document Map** being displayed and not displayed.

Many Pages: Click to specify the number of pages you want displayed.

Zoom Out: Click to see more of the report page at a reduced size.

Zoom: Click to change the zoom level of the report preview.

Zoom In: Click to get a close-up view of the report.

Page Color: Click to change the color for the background of the report pages.

Watermark: Click to insert a ghosted text or image behind the content of each page of the report. A watermark is often used to indicate how a document is to be treated specifically.

The Watermark dialog box lets you specify your watermark settings. Your watermark can either be in text or graphic form.

Watermark		×
	Text Watermark	Picture Watermark
	Text: DO NO	IT COPY
	Direction: Forwar	rd Diagonal V Color:
	Eont: Verdar	na v <u>S</u> ize: 36 v
DO NOT CORT	✓ Bold	Italic
	Transparancy (0, 2	55): 50
30 ⁵	Transparency (0-2	
	Position	Page Range
	🔘 In <u>f</u> ront	<u>A</u> II O Pages:
	● <u>B</u> ehind	Enter page numbers and/or page ranges separated by commas. For example: 1,3,5-12
Clea <u>r</u> All		OK Cancel

4 (Optional) Save the Report using the tools discussed below.

Save: Click to save the report. The report is saved as a . PNRX file, meaning that in this format, the report can only be opened through the Report Viewer.

Export To: Click to export the report to a new format. Each selected format option brings up a dialog box where you can provide specifics on how you want the report exported.

XLSX Export Op	tions	x
Export mode:	Single file	~
Page range:		
Sheet name:	Sheet	
Text export mode:	Value	~
Show grid lines		
Export hyperline	s	
Raw data mode		
	OK Cancel	

10 Using the Client Tools

The Micro Focus File Reporter Client Tools are designed to provide members of the administrators group expanded abilities in analyzing data and designing reports. The Client Tools are run from a Windows workstation.

The analytics tools are an integrated set of data visualization applications that include a Dashboard, Pivot Grid, and Tree Map.

The Report Designer allows you to design reports locally from a Windows workstation, while offering significantly more reporting design capabilities to those of the browser-based administrative interface.

- Section 10.1, "Launching the Analytics Tools," on page 121
- Section 10.2, "Using the Dashboard," on page 123
- Section 10.3, "Using the Tree Map," on page 125
- Section 10.4, "Using the Pivot Grid," on page 127

10.1 Launching the Analytics Tools

These procedures briefly introduce you to some of the capabilities of each of the applications. You will discover more capabilities as you work with each of the applications on your own.

1 From the Start menu, select File Reporter 3.6 Data Analytics.

The following login screen appears:

2 Enter your login credentials and click Login.

Login	×
Web Service URI	https://filereporter.dynamics.cctec.org
User Name	dynamics\administrator
Password	•••••
	Login Cancel

A selection dialog box similar to the following appears:

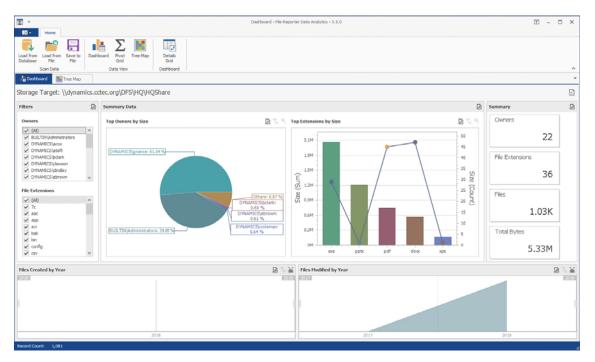
\bigotimes				
Logout	s	erver 🔺		
		Identity System	*	Network Path
Load from Database	×	Server: CCTEC3		
Database Connection		Server: dynamics.cctec.org		

3 Expand the shares and volumes.

	Identity System	Network Path						
	✓ Server: CCTEC3							
	CCTEC_TREE	\/CCTEC3/VOL1						
	CCTEC_TREE	\/CCTEC3\VOL2						
Þ	A Server: dynamics.cctec.org							
	dynamics.cctec.org	\\dynamics.cctec.org\DFS\Atlanta\AtlantaShare						
	dynamics.cctec.org	\\dynamics.cctec.org\DFS\Atlanta\AtlantaUsers						
	dynamics.cctec.org	\\dynamics.cctec.org\DFS\HQ\HQShare						
	dynamics.cctec.org	\\dynamics.cctec.org\DFS\HQ\HQUsers						
	dynamics.cctec.org	\\dynamics.cctec.org\DFS\Munich\MunichShare						
	dynamics.cctec.org	\\dynamics.cctec.org\DFS\Munich\MunichUsers						

4 Double-click the File System scan you want to analyze.

The data from the scan is presented in the Dashboard.



10.2 Using the Dashboard

NOTE: The exercises in the remainder of this chapter introduces you to some of the very basic analytical features of the Analytics Tools. Through familiarizing yourself with these basic features, you will become proficient enough with these tools to try more advanced features.

- 1 In the Filters region of the Dashboard, deselect one or two of the check boxes and observe how the changes are reflected in the Summary Data, Top Extensions by Size, and Summary regions of the Dashboard.
- 2 In the Files Created by Year region, click a specific year.
- **3** Observe the changes in the Summary Data, Top Extensions by Size, and Summary regions of the Dashboard.

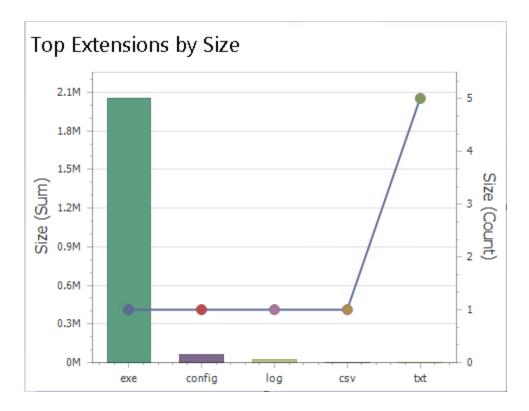
The graphical displays in the Summary Data, Top Extensions by Size, and Summary regions of the Dashboard are driven by the Filters region and the selected years from the Files Created by Year and Files Modified by Year regions.

- 4 In the Summary Data region, place the cursor over a pie graph section and observe how sectional-specific information appears in a balloon.
- 5 Double-click the pie graph section and observe how the Dashboard drills down to show data specific to the selected section in the Summary Data, Top Extensions by Size, and Summary regions.
- 6 Right-click a section of the new pie graph and select **Details Grid** to view the individual filenames.

÷ I∎ - Hor	me		Filt	ered by: DYNAM	4ICS\gnance			T –	□ ×
. t	Export Expor to Excel to CSV	t							~
ag a column hea	Name	File Name E		Owner	Create Time	Modify Time	Access Time	Index	Parent Ind
\\dynamics	conusee.mov	mov	152 bytes	DYNAMICS	6/22/2018		6/22/2018	671	^
\\dynamics	eventual.avi	avi	688 bytes	DYNAMICS	6/22/2018	6/22/2018	6/22/2018	674	
\\dynamics	burns.bin	bin	504 bytes	DYNAMICS	6/22/2018	6/22/2018	6/22/2018	696	
\\dynamics	scratch.docx	docx	422 bytes	DYNAMICS	6/22/2018	6/22/2018	6/22/2018	714	
\\dynamics	sorbets.m4a	m4a	474 bytes	DYNAMICS	6/22/2018	6/22/2018	6/22/2018	715	
\\dynamics	outrun.app	арр	443 bytes	DYNAMICS	6/22/2018	6/22/2018	6/22/2018	732	
\\dynamics	mobilized.w	wma	89 bytes	DYNAMICS	6/22/2018	6/22/2018	6/22/2018	791	
\\dynamics	gum.avi	avi	911 bytes	DYNAMICS	6/22/2018	6/22/2018	6/22/2018	811	
\\dynamics	releasable.rtf	rtf	833 bytes	DYNAMICS	6/22/2018	6/22/2018	6/22/2018	818	
\\dynamics	overcoat.mp4	mp4	433 bytes	DYNAMICS	6/22/2018	6/22/2018	6/22/2018	835	
\\dynamics	perches.gz	gz	581 bytes	DYNAMICS	6/22/2018	6/22/2018	6/22/2018	837	~
			SUM=3 MB						
Total Cou			0011 0110						

- 7 From the grid, right-click a file and select Open Folder to open the folder where the file is located.The Dashboard gives you the ability to easily access any files you might want to know about.
- 8 Close the grid.
- **9** Drill up to the originally displayed data by clicking the Drill Up arrow pertaining to the Summary Data region of the Dashboard.
- **10** In the **Top Extensions by Size** region, place the cursor over one of the bars and observe how sectional-specific information appears in a balloon.
- 11 In the Top Extensions by Size region, right-click and select Export to Image.
- **12** Save the image to a location on your desktop.

The graphic can now be used in a presentation or report.



- **13** In the Files Created by Year region, double-click a year span and observe how the displayed data in the other regions is updated to data pertaining to the selected year.
- 14 Right-click the selected year span and select Clear Master Filter to have the graph span all of the years again.
- 15 In the Files Modified by Year region, double-click a year span and observe the change in the displayed data in the Dashboard.
- 16 Place the cursor over a bar in the Top Extensions by Size region, right-click and select Print Preview.
- 17 Observe that in addition to printing, you can save the graph as a PDF or email the graph.
- **18** Close the Print Preview page.

10.3 Using the Tree Map

The Tree Map lets you view graphical representations of hierarchical file system data and in the process, gain insight very quickly.

- 1 From the Dashboard, click Load from Database.
- 2 Browse to select the file system scan you want and double-click it.
- 3 Click Tree Map.

5 ·									т	ree Map - File I	Leporter Data Analytics -	3.5.0		Ŧ -	- 0
0.	Home														
J.	<u>~</u> °			Σ			2	i	8	8	File Size				
d from abase	Load from File	Save to File	Dashboard	Pivot Grid	Tree Map	File Extension	Owner	Date Range	Set Scope		O File Count	Reset Dock Panels			
	ican Data			Data View		Tree	Map Cate		T	tap Scope	Tree Map Measure	Tree Map Display			
Dashbo		Tree Map		Data view		iree	map Cate	pory	iree P	ap scope	Thee map measure	Tree Map Lispay			
olders		ince inap	^	a									File Extension		_
													File Extension		
ydynan	ics.cctec.org	pp:stid4	Qonare										Value	Count	
														69	3 M
														9	2.M
													docx	55	291
														49 53	281
													880	53	271
													zio	38	211
													mov	50	211
													mov	43	201
													mp4	44	201
													Properties		-
													Name		
													Full Path	\\dynami	cs.ccte.
													Name	90-18-27	9 ATTA.
													File Name Exte.	docx	
													Meta Data		
													Size	489.85 KB	
													Owner Create Time	DYNAMIC	
													Modify Time	5/11/201 5/11/201	
													Access Time	5/11/201 File	e 4133
													Path Type	File:	
													Hierarchy	123	
													Parent Index	123	
													Path Depth	4	

4 Observe how the Tree Map is presented according to file extension type with the specific color assignments detailed in the File Extension region.

Each of the squares in the Tree Map represents a single file in the scanned storage resource. The squares are represented according to the file size, relative to all of the other files in the scan.

- 5 Click one of the larger squares to view the details of the file in the Properties region.
- 6 Right-click the file and select **Open Parent Folder** to open the folder where the file resides. This gives you the ability to easily access any files you might want to know more about.
- 7 Expand the file system so it is displayed in the Folders region.
- 8 Click one of the folders to see the group of files that reside in that folder.

The files belonging to a selected folder are outlined by a magenta colored outline.

- **9** Right-click a folder and select **Set Scope** to drill down and view the contents of the folder in the Tree Map.
- 10 In the Folders region, right click the listed scan and select Reset Root Scope.
- 11 Click Owner.

The Tree Map now displays files according to owners.

- **12** Using the color classifications in the **Owner** region, observe which users are storing the largest files.
- **13** Click Date Range > Access Date.
- 14 Observe how the data in the Tree Map is now classified according to when files were last accessed.

This is one of the most powerful means in File Reporter of quickly determining the relevance of data being stored on network storage resources.

10.4 Using the Pivot Grid

The Pivot Grid gives you the ability to visually analyze data according to combinations of variables.

- 1 From the Dashboard, click Load from Database.
- 2 Browse to select the file system scan you want and double-click it.
- 3 Click Pivot Grid.

<u>*</u>	Pivot	Grid						Pivot Grid - File Rep	orter Data Analytics	- 3.5.0				Ŧ		×
Home Home	Chart	Reports														
Load from Database File Scan Data	File	Dashboar	d Pivot Grid	Tree Map	Layout	Save Pivot Layout	Reset All Fields	Conner Conner	Access Year	Aa Case Sensitive Pivot Grid Settings	Reset All Dock Panels	Auto Fit Data Columns Pivot Grid D				~
	Tree Map	121 F	ivot Grid	-									opia j			Ŧ
Pivot Fields		a Drop	Filter Fields	Here												
Drag Items to the PV	Time Time Time ension	Here Drop Here	Row Fields	Grand Te	umn Fielda Hen otal ala Itema	e										
		Ch 0.79 0.39	art 432823472- 810717055 952623149	3497											Grand 1	# Total
Defer Layout Upd	late Up	iate		0												
Record Count: 1,08	31															

- 4 From the Pivot Fields region, select Size (residing in the Measures folder) and drag it up to the area marked Drop Data Items.
- 5 Again in the Pivot Fields region, select Owner and drag and place it in the area marked Drop Row Fields Here.
- 6 Observe the totals now calculated for the two data variables.

¥	Pivot G				Pivot Grid - File Re	porter Data Analytics	- 3.5.0				Ŧ -		>
Home	Chart F	Reports											
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oad from Load fro Database File	m Save to File	Dashboard Pivot T Grid		e Pivot Reset Al iyout Fields		Access Year	Case Sensitive	Reset All	Auto Fit Data Columns				
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7 From the Pivot Fields region, expand Access Time to locate Access Time (Month) and drag it up to the area marked Drop Column Fields Here.

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8 Click the filter icon from the Access Time (Month) filter that you just placed.

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)		
⊻ June				
	June			
OK Cancel		OK	Cancel	

- 9 Deselect all but one month and OK.
- 10 Click the Chart tab.
- 11 Highlight three consecutive rows to view the data analyzed as graphs in the Chart region.

E *	Pivot Grid			Piv	ot Grid - File Reporter	Data Analytics - 3.5.0			Ŧ	-	
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- 12 From the Chart Presets options, experiment with different chart views of the data.
- **13** Double-click a selected cell from the table to access the Scan Data Details table specifying all of the files accessed by that user during that month.
- **14** From the Scan Data Details table, right-click a file and select **Open Folder** to open the parent folder of the file.

With the parent folder open, you can examine the file, move it to another location, or delete it.

- 15 Click the Reports tab.
- **16** Again, highlight three consecutive rows.
- 17 Click Generate Report.
- **18** Observe that you have the option to print the report or export it to a number of different formats.

11 Using Report Designer

Report Designer allows you to design reports locally from a Windows workstation, while offering significantly more reporting design capabilities to those of the browser-based administrative interface.

11.1 Using the Report Designer Interface

NOTE: You must be a member of the SrsAdmins group to design reports using Report Designer. The name SrsAdmins is the default name (which you can change) of the File Reporter administrators group created during the installation of the Engine.

1 From the Start menu, launch the File Reporter 3.6 Report Designer.

Login	×
Web Service URI User Name Password Login Cancel	

2 Enter the login credentials and click Login.

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3 Familiarize yourself with the Report Designer interface.

All Custom Query Reports are listed. Those that have *not* been designed using the Report Designer Layout interface are displayed with the green-bannered text icon, while those designed using the Report Designer have the blue notebook icon.

All of the options on the toolbar are available by selecting a report and right-clicking.

New Custom Query Report: Click to create a new Custom Query Report by launching the Query Editor.

Rename: Click to rename a selected Custom Query Report.

Copy: Click to create a copy of the report definition of a selected report.

Delete: Click to delete a selected Custom Query Report.

Refresh: Click to refresh the list of saved reports.

Edit Query: Click to edit the SQL commands pertaining to a selected Custom Query Report through the Report Designer's Query Editor.

Design Report Layout: Launches the Report Designer Layout interface. For more information on the Report Designer Layout interface, see Section 11.3, "Designing a Custom Query Report," on page 135.

Clear Report Layout: Click to clear custom design settings created using the Report Designer Layout interface. This is a nonreversible procedure.

Visit Community Portal: Click to access the File Query Cookbook website.

	uery Cookbook Search this site Q
	HOME CUSTOM QUERY RECIPES FORUMS HELP
User login Username *	Welcome! Each day we go about our business whether we create software, train a child in a school district, build planes in aerospace, provide healthcare, insure peoples stuff, etc. We all have data with varying degrees of importance, some highly critical to the business directly and some highly critical to our customers, while other data is the communication that helps our business units successfully work together. Each of the data types have similarities in size, age, ownership, and a level of security. Having the ability to query our data helps us to answer a number of questions:
Request new password Log in Privacy Policy	 Where's the data? What types of data are we maintaining? Who owns the data? Who has permission to access the data? How fast are we using up our storage space?
	 How old is the data? How often is the data being accessed? Once queried the data needs to be collated into reports. These reports are read differently based on the perspective of the individual. A volume free space report, read by the Director of Information Technology will not be read with the same perspective as the Business Manager, as the former is figuring out the storage budget, while the other is wondering where the all the current data is. Reports may need to be laid out differently in order to drive the business intelligence needed, based on perspective.
	This site attempts to help you learn how to write queries and generate report layouts to help you achieve a new level of success, while supporting, maintaining, and protecting your storage.

File Query Cookbook is a community website for sharing Custom Query reports and layouts created through the Report Designer. You can utilize a shared Custom Query report by simply copying the SQL commands in a shared Custom Query report "recipe." You can also download shared layouts created through the Report Designer.

Access Online Templates: Click to directly access the list of all available Custom Query reports shared on the File Query Cookbook website. From the Custom Query Recipes page, you can filter your search by category, database host, and more.

Filter: The cell directly below the **Report Name** column heading is a report filter that lists saved Custom Query reports according what you enter. For example, if you were to enter the word access, the listed Custom Query reports would be only those with the word access in the report name.

[Report Type]: By default, this check box is selected so that it displays only Custom Query Reports, which are the only reports that can be designed using the Design Editor. You can deselect the check box to view all of your reports.

Edit Filter: Use this button to further refine your filtering using Boolean operators.

11.2 Creating a Custom Query Report

NOTE: For details and examples of the supported database functions, tables, and views that you can utilize in Custom Query reports, refer to the *Micro Focus File Reporter 3.6 Database Schema and Custom Queries Guide*.

1 Click New Custom Query Report.

New Custom Query		×
Name		
	Create	Cancel

2 Specify a descriptive name, then click Create.

The Report Designer Query Editor is launched.

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- 3 In the SQL Query Builder region, expand srs to see the Tables and Views folders.
- **4** Expand either the Tables or Views folder.
- 5 Expand a displayed table or view.
- 6 Select the tables and fields you want included in the query by double-clicking each.

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Records Loaded : 6,118				

- 7 Append the query with any additional SQL commands in the text editor.
- 8 Click Execute Query to get a preview of the Custom Query Report.

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<pre>1 SELECT 2 srs.current_ntfs_aces.fullpath, 3 srs.current_ntfs_aces.trustee_display_name, 4 srs.access_mask_basic_string(srs.current_ntfs_aces.ace_type_string 5 FROM 7</pre>	ces.access_mask, 2) AS basic_p	ermissions,	
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- 9 Click Save.
- 10 Close the Query Editor.

11.3 Designing a Custom Query Report

After you have created a Custom Query Report, either through the Report Designer Query Editor or the Query Editor built into the browser-based administration interface, you can design the layout of the report.

NOTE: This exercise introduces you to some of the very basic design features of the Report Designer. Through familiarizing yourself with the basic features, you will become proficient enough in the interface to try more advanced features.

For a more detailed explanation of features in the Report Designer, refer to: https:// devexpress.github.io/dotnet-eud/interface-elements-for-desktop/articles/report-designer/reportdesigner-for-winforms.html.

1 From the listed Custom Query Reports, select the one you want to design.

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2 Click Design Report Layout.

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- 3 Create a report header.
 - **3a** Place the pointer in the upper section of the layout grid.
 - **3b** Right click and select **Insert Band > Report Header**.

A new ReportHeader band appears on the grid.

- 4 Resize Page 1 and add a page break.
 - **4a** Place the pointer on the bottom border of the new band and using the vertical ruler as a guide, extend the band to fill the first page.

For example, to fill the first page, you might extend the border down to the 8" mark.

4b From the Standard Controls region, click and drag a Page Break to the bottom of the band.

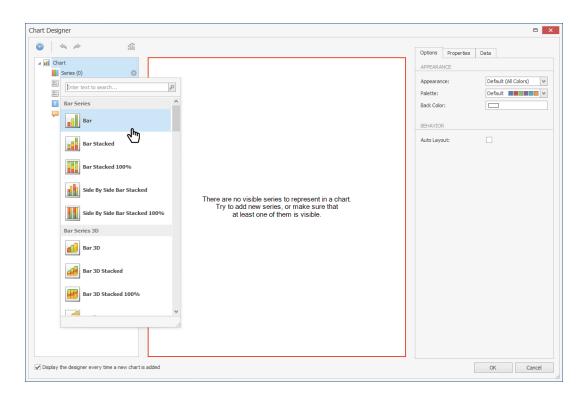
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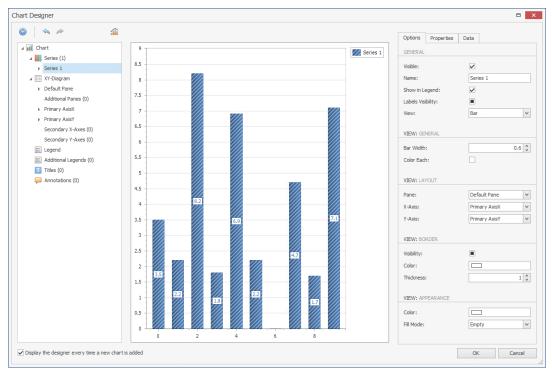
- **5** Insert and design a chart.
 - 5a From the Standard Controls region, click and drag a Chart to the band.

The Chart Designer is launched.

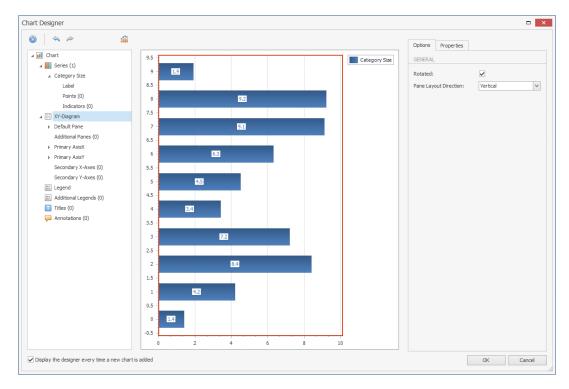
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5b In the Chart Designer, below the **Chart** menu, click the **+** that pertains to the **Series** option and select the **Bar** option.



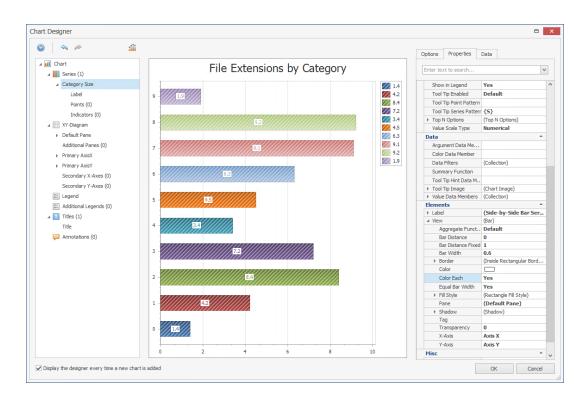


- 5c Click the Date tab and expand Query Results.
- 5d Click and drag Category to the Argument cell.
- 5e Click and drag cat_size to the Value cell.
- 5f Click the Options tab and in the Name field, replace Series 1 with Category Size.
- 5g Below the Chart menu, click the XY-Diagram option.



5h In the Options tab, select the Rotated check box.

- 5i Below the Chart menu, select Titles, click the +, and select Title.
- 5j In the Options tab, in the Lines field, replace Chart Title with a more descriptive name. For example, File Extensions by Category.
- 5k Below the Chart menu, select Category Size.
- 51 Click the Properties tab, scroll down and under the Elements heading and expand View.
- 5m Change the Color Each setting to Yes.

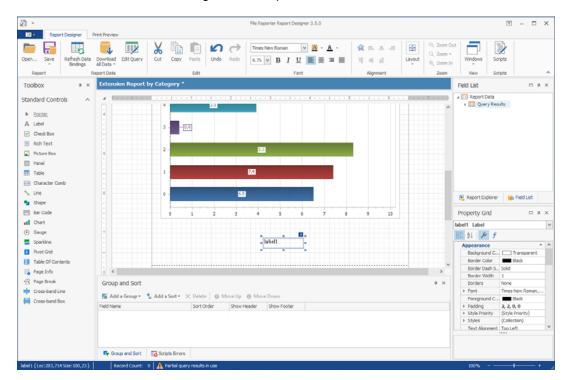


5n Click OK.

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- **50** In the upper right-hand corner of the newly-placed chart, click the arrow to access the **Chart Tasks** menu and select **Run Designer**.
- **5p** Click the legend and from the **Options** tab, deselect the **Visibility** check box so the legend no longer appears.

- 5q Click OK.
- 5r In the Report Designer, expand the view of the chart to take up more of the page.
- 6 Insert labels.
 - 6a From the Toolbox, click and drag Label to a position centered below the chart.



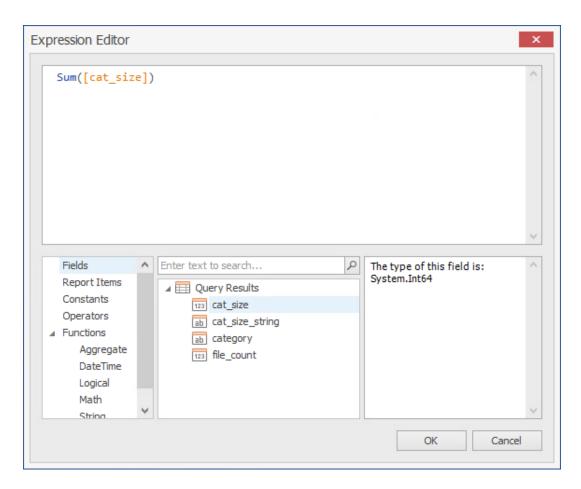
6b Double-click within the label and specify the label name.

For example, Total Size.

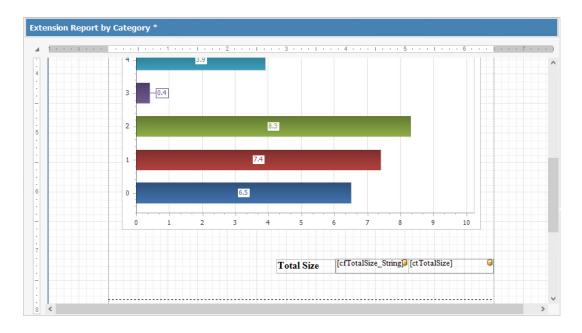
- 6c Adjust the font size and style to your preferences.
- 7 Create new fields.
 - 7a From the Field List, expand the Query Results.
 - 7b Right-click Query Results and select Add Calculated Field.
 - 7c In the Design region of the Property Grid for claculatedField1, change the (Name) setting to cfTotalSize.
 - 7d While still in the Property Grid, under the Data heading, click the ellipses (...) pertaining to the Expression field.

This launches the Expression Editor.

- 7e In the bottom-left column, select Functions.
- **7f** In the empty field at the top of the middle column, type sum to locate the **Sum** function, then double click **Sum** to place the function in the top text box of the Expression Editor.
- 7g In the bottom-left column, select Fields and then in the middle column, double-click cat_size.



- 7h Click OK to save the new filed and close the Expression Editor.
- 7i Right-click Query Results and select Add Calculated Field.
- 7j In the Design region of the Property Grid for claculatedField1, change the (Name) setting to cfTotalSize_String.
- 7k While still in the Property Grid, under the Data heading, click the ellipses (...) pertaining to the Expression field.
- 71 In the top text box of the Expression Editor, type Byte so that ByteString() appears.
- 7m From the middle column, double-click cfTotalSize that you created earlier and click OK.
- 8 Place the new fields.
 - **8a** From the Field List, hold down the Control key, select the two new fields you just created, then drag them to the Total Size label on the grid.
 - 8b Adjust the size so that both fields will appear to the right of the Total Size label.



- 8c Adjust the font size and style to your preferences.
- 9 Preview the report.
 - 9a Click Download All Data.
 - **9b** When the warning dialog box appears, click **Yes**.
 - **9c** Click the **Print Preview** tab to observe how the report is going to look at this point.
 - 9d Make any desired format changes.
- 10 Create a header for Page 2.
 - 10a Click the Report Designer tab.
 - **10b** In the Report Designer, scroll down below the page break so that you are working on Page 2 of the report.
 - **10c** At the top of the page, right-click and select **Insert Band > PageHeader**.
 - 10d From the Tool Box, click and drag a Table to the location of the new page header.
 - **10e** Replace the names of the three new table cells with the following names:
 - Category
 - Size
 - File Count
 - 10f Select the File Count cell, right-click, then select Insert > Column to Right.
 - 10g Change the table cell name to Percent of Total.
 - 10h Resize the table cells to your preferred width.
 - **10i** Adjust the font size and style to your preferences.
 - **10** Resize the depth of the page header so it is limited to the depth of the table.
- 11 Create a new calculated field for Percent of Total.
 - 11a Right-click Query Results and select Add Calculated Field.
 - 11b In the Design region of the Property Grid for claculatedField1, change the (Name) setting to cfPercentofTotal.

- **11c** While still in the **Property Grid**, under the **Data** heading, click the ellipses (...) pertaining to the **Expression** field.
- **11d** From the middle column of the Expression Editor, double-click cat_string.
- 11e Hit the space bar and then enter the following string: * /100
- **11f** Complete the string by double-clicking **cfTotalSize** from the middle column of the Expression Editor.

xpression Editor				x
[cat_size]	* 10	0/[ctTotalSize]		< >
Fields Report Items Constants Operators ▲ Functions Aggregate DateTime Logical Math Stripg	< >	Enter text to search Query Results Description: Desc	The type of this field is: System.Object	< ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
			OK Cancel	

11g Click OK.

- **12** Insert the table content.
 - **12a** Click below the header, hold down the Control key, and from the **Field List**, select the following fields in this order:
 - category
 - cat_size_string
 - file_count
 - cfPercentofTotal
 - **12b** Drag the fields to a location below the header.
 - **12c** Line up the tables cells with the headings.

	File Reporter Report Designer 3.5.0	▣ - □ >
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N Line	Category Size File Count Percent of Total	🖳 Report Explorer 🛛 🙀 Field List
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- 12d Click the Print Preview tab to view how the report will look.
- 12e Make any needed adjustments.
- 13 Click Save > Save to Database.

By saving the report to the database you enable the File Reporter Report Generator to use the report design for updated reports.

In addition to saving the report to the database, you can save the report as a file where you can import it into another file, such as a Word file or PowerPoint presentation.

11.4 Saving the Layout as a Template

When working with the Report Designer, you might create a layout design that you want to utilize as a template for future Custom Query Reports. You can do so using **Save As File**.

- In Report Designer, open the Custom Query Report whose design you want to save as a template.
- 2 Select Save > Save As File.
- 3 Name and save the layout.

The layout is saved as a .repx (Report Layout XML) file.

11.5 Using a Saved Template for Custom Query Reports

You can use saved .repx files as design templates for Custom Query Reports.

TIP: You can also use the sample report layouts and SQL commands that are available from the File Query Cookbook, the collaborative community portal for accessing and sharing Custom Query reports. Both the SQL commands and report layouts can be customized as needed. You can access the File Query Cookbook directly through the Report Designer interface, or at http://www.filequerycookbook.com (http://www.filequerycookbook.com).

- 1 In Report Designer, open the Custom Query Report you want to design using a saved template.
- 2 Click Open, then select the .repx file you want to use for designing your report.

The report is updated with the design from the .repx file.



- Section A.1, "Filters Tab," on page 147
- Section A.2, "Single Entry Filter Conditions," on page 149
- Section A.3, "Multi-Condition Filtering," on page 151

Micro Focus File Reporter enables you to utilize advanced filtering capabilities so that your reports include only the data you want. File Reporter provides this advanced filtering capability for all File Data Reports, which include:

- Filename Extension Reports
- Filename Extension Detail Reports
- Owner Reports
- Owner Detail Reports
- Duplicate File Reports
- Duplicate File Detail Reports
- Date-Age Reports
- Date-Age Detail Reports

A.1 Filters Tab

- Section A.1.1, "Filter Expression Builder," on page 148
- Section A.1.2, "Relative Date Filtering Parameters," on page 149

All filtering takes place in the Filters tab of the Report Definition Editor.

Figure A-1 Filters Tab

ort Definition	Editor - Atlanta Users Owner Report		
lame:*	Atlanta Users Owner Report		
Unformatted:			
ype:	Owner Report		
Description:	Report Definition created on 6/14/2018 11:05 DYNAMICS\Administrator	:53 AM by	
TARGET PATHS	FILE MANAGEMENT POLICIES	FILTERS	
EXPRESSION RELATIVE DATE	And ©		
	1		

You set filter parameters using the Boolean operators available through the **And** drop-down menu, and adding the search parameters with the+ button. Alternatively, you set date filters using the **Relative Date** filter parameters on the right-hand portion of the page.

You can filter according to size, dates, or both.

A.1.1 Filter Expression Builder

The And drop-down menu is used to:

- · Select Boolean operators for creating a search filter
- · Create additional groups or conditions
- Delete search filters, groups, or conditions

Figure A-2 And Drop-Down Menu

And	0
۲	And
	Or
۲	Not And
	Not Or
*	Add Group
₽.	Add Condition
×	Remove

The + button next to the And drop-down menu are used to create parameters for a search condition.

Figure A-3 Parameters for Filter

And 🔘

File Extension Begins with <enter a value> 🚳

A.1.2 Relative Date Filtering Parameters

Click Relative Date and then select the Create Date, Modify Date, and Access Date check boxes to enable the corresponding drop-down menus and fields.

Figure A-4 Relative Date Filtering Parameters

EXPRESSION	Create Date	Since 💌	0 🗘	Days 🔹	ago
RELATIVE DATE	Modify Date	Since 💌	• \$	Days 💌	ago
	Access Date	Since 🔻	0 🗘	Days 👻	ago

A.2 Single Entry Filter Conditions

- Section A.2.1, "Using the Filter Expression Builder," on page 149
- Section A.2.2, "Using the Relative Date Filtering Settings," on page 151

You can use either the And drop-menu and + button, or the Relative Date filtering settings to create single entry filter conditions.

A.2.1 Using the Filter Expression Builder

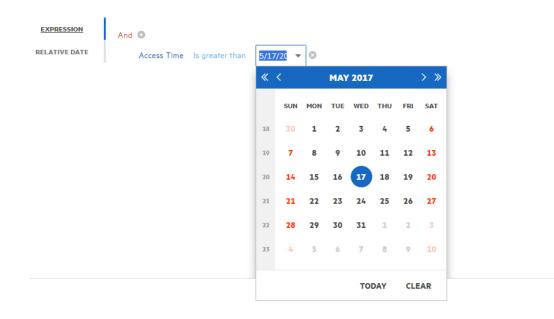
- 1 From the And drop-down menu, select a Boolean operator.
- 2 Click the + button to add an entry.
- 3 From the File Extension drop-down menu, select a Boolean operator.



4 From the Equals drop-down menu, select a Boolean operator.

EXPRESSION	And 🖸	
RELATIVE DATE	Access Time	e <u>Equals</u> <enter a="" value=""> 🕲</enter>
		= Equals
		≠ Does not equal
		> Is greater than
		➢ Is greater than or equ
		< Is less than
		✓ Is less than or equal to
		👄 🛛 Is between
		➡ Is not between
		•••• Is any of
		••• Is none of
		Date and time operators \rightarrow

5 In the <enter a value> field, enter a value.



File size values must be entered in bytes. For example, if your filtering parameters were for all files larger than 500 MB, you would enter 524288000 (500 x 1024 x1024). A more practical entry might be 500000000. Do not attempt to enter commas; they are placed automatically.

6 Click OK to save the settings in the Report Definition Editor.

Using the settings in this procedure as an example, when you generate a report, the data would include only files that have been accessed after May 17, 2017.

A.2.2 Using the Relative Date Filtering Settings

- 1 From the Filters tab, click the Relative Date option.
- 2 Select from the Create Date, Modify Date, or Access Date check boxes.
- 3 From the first drop-down menu, select either Since or Before.
- 4 From the numeric field to the right, enter a numeric setting.
- 5 From the drop-down menu to the right, select from the options.

🗸 Access Date Since 🔻 7 🗘 Days 💌 ago

6 Click Save to save the settings in the Report Definition Editor.

Using the setting in this procedure as an example, when you generate a report, the data would include only files that have been accessed in the last week.

A.3 Multi-Condition Filtering

You can set multi-conditioned filters by:

- · Entering parameters for more than one entry using the And drop-down menu
- Specifying multiple Relative Date filtering settings
- Combining parameters specified through the And drop-down menu and the Relative Date filtering settings

IMPORTANT: Be aware that when you set multiple entries in a condition for filtering, that all entries must be met in order for File Reporter to report on the file.

For example, in the example below, the files would appear in the report only if they were greater than 500 MB and had been accessed after April 1, 2012.

EXPRESSION	And	0					
RELATIVE DATE		File Size	ls g	greater than	524	4,288,000	0
		Access Ti	me	ls greater th	an	4/1/2016	G

Security Settings

- Section B.1, "Rights and Privileges on Scanned Storage," on page 153
- Section B.2, "Firewall Requirements," on page 153
- Section B.3, "Local Security Authority Rights and Privileges," on page 154
- Section B.4, "Proxy Rights Group," on page 155
- Section B.5, "Windows Clustering through Proxy Agents," on page 155

B.1 Rights and Privileges on Scanned Storage

Micro Focus File Reporter must have the proper rights set on each network volume or share that it scans. In addition, certain privileges must be granted to File Reporter on the machine hosting the Engine and on each server where storage is managed.

B.1.1 Granting Rights

Every Windows network share to be scanned by File Reporter must have proper rights assigned to the File Reporter proxy rights group.

- **1** As an Active Directory domain administrator, authenticate to the server where the storage is located.
- **2** Grant Read Only sharing privileges to the proxy rights group for each share that File Reporter will scan.

B.2 Firewall Requirements

Depending on the host system, exceptions must be added to the firewall rules for that host. The following are needed for successful operation of File Reporter tasks.

NOTE: Firewall exceptions for File Reporter components installed on Windows are set up automatically during configuration of each component.

- The Engine must remain permitted to make outbound connections.
- The Engine must remain able to listen on port 3035.

This is the default port choice that is presented during the installation and configuration.

- File System Agents (legacy Agent for Windows, AgentFS, Agent for OES Linux) must be permitted to make outbound connections.
- File System Agents (legacy Agent for Windows, AgentFS, Agent for OES Linux) must remain able to listen on TCP port 3037.

This is the default port choice that is presented during the installation and configuration.

• The Web Application hosted on IIS must be allowed to listen on TCP ports 80 and 443.

- On each server hosting storage that you wish to collect quota via proxy, you must enable the Remote File Server Resource Manager Management FSRM Service (RPC-In) firewall rule.
- If File Content Analysis is enabled:
 - ManagerFC must remain permitted to make outbound connections.
 - AgentFC must remain permitted to make outbound connections.
 - RabbitMQ must remain permitted to make outbound connections.
 - RabbitMQ must remain permitted to listen on TCP port 15672 for the management interface.

This is the default port that RabbitMQ management interface listens on.

• RabbitMQ must remain permitted to listen on TCP port 5671.

This is the default port that RabbitMQ is configured for with TLS.

B.3 Local Security Authority Rights and Privileges

Local Security Authority (LSA) rights and privileges are assigned to accounts or groups, and they determine how those accounts or group members may access the system. The rights and privileges are modified through secpol.msc or Local Security Policy from:

Start > Administrative Tools > Local Security Policy

1 In Local Security Policy, go to the following:

Security Settings > Local Policies > User Rights Assignments

- 2 In the table of **Privileges** and the objects to which they apply located on the right, verify that the File Reporter proxy rights group has the following privileges:
 - · Access this computer from the network
 - · Back up files and directories
 - Bypass traverse checking
 - Create a token object
 - Create symbolic links
 - · Impersonate a client after authentication
 - Log on as a batch job
 - Manage auditing and security log

IMPORTANT: Absence of some of these privileges causes the Engine and Agent components to not function properly. Removal of these rights and privileges via Group Policy Object (GPO) results in the Engine and Agent not functioning properly.

If GPO conflicts are detected, set up an additional GPO with just the privileges listed above and assign it to the proxy rights group for the appropriate servers.

B.4 Proxy Rights Group

By default, whenever any of the components of File Reporter are installed on a server in a domain, the proxy rights universal security group is granted membership in that server's built-in Administrators security group. This grants File Reporter certain permissions needed in addition to the LSA privileges required for successful scanning of file system metadata.

On other servers in the domain that are hosting storage to be scanned by File Reporter through a proxy agent, you must also grant the proxy rights group membership in the built-in Administrators group. This is necessary because there are many actions performed that require membership in this group regardless of the LSA privileges that the user has been granted—in particular, reading directory quotas.

Additionally, the other servers in the domain that are not hosting components, but are hosting storage to be scanned, must have the necessary rights and privileges, along with some file share and NTFS permissions. The easiest way of granting these rights and privileges is through Group Policy objects in Active Directory.

As explained previously, at a minimum, you must grant Read Only sharing and security privileges to the proxy rights group for each share that File Reporter will scan.

IMPORTANT: The proxy rights group for Active Directory must be a member of the built-in Administrators group on each Windows server that File Reporter scans.

Certain functions, such as collection of quotas via FSRM (File Server Resource Manager) do not work without this membership despite the assignment of other rights and privileges.

B.5 Windows Clustering through Proxy Agents

File Reporter supports clustering of Windows Server through Proxy Agents. Configuring a cluster to be scanned through a proxy agent is similar to configuring an individual server to be scanned by a proxy agent. In particular, the File Reporter proxy rights group must be granted membership in the built-in Administrators group and it must also be granted all of the LSA rights and privileges that are granted at each cluster node. When this is done, the folder share permissions and NTFS permissions that are required must be granted to the proxy rights group for all shares and NTFS volumes that will be scanned by File Reporter.

C Log File Locations

When troubleshooting Micro Focus File Reporter, you might need to refer to component log files. The locations for each are specified in the table below.

Table C-1 Log File Locations

Component	Typical Log File Path
Engine	C:\ProgramData\Micro Focus\SRS\Engine\log\srsengine.log
Scan Processor	C:\ProgramData\Micro Focus\SRS\Engine\log\scanprocessor.log
Legacy Agent for Windows	C:\ProgramData\Micro Focus\SRS\Agent\log\srsagent.log
AgentFS	C:\ProgramData\Micro Focus\SRS\AgentFS\log\SRSAgentFS.log
Agent for OES Linux	/var/opt/microfocus/srs/agent/log/srsagentd.log
Web Application	C:\inetpub\srs_root\AppData\logs\webui.log
ManagerFC	C:\ProgramData\Micro Focus\SRS\ManagerFC\log\SRSManagerFC.log
AgentFC	C:\ProgramData\Micro Focus\SRS\AgentFC\log\SRSAgentFC.log

Agent Scan Capabilities

- Section D.1, "Server Platform and NAS Device Support," on page 159
- Section D.2, "File System Metadata," on page 160
- Section D.3, "Security Scans Active Directory File Systems," on page 161
- Section D.4, "Security Scans eDirectory File Systems," on page 161
- Section D.5, "Volume Free Space Scans," on page 162
- Section D.6, "Other Microsoft Supported Features," on page 162
- Section D.7, "Current Limitations," on page 162

D.1 Server Platform and NAS Device Support

The following platforms are supported as server hosts for scan targets.

Server Platform	File Reporter 3.6
Windows Server 2008	✓ ¹
Windows Server 2008 R2	✓
Windows Server 2012	✓
Windows Server 2012 R2	✓
Windows Server 2016	✓
Open Enterprise Server 2015 SP1	2,3
Open Enterprise Server 2018	✓

Table D-1 Supported Scan Target Hosts

- 1. Older Windows servers including Windows 2003 or 2003 R2 might work, but are not supported.
- 2. Older editions of Open Enterprise Server including OES 2 SP4 and OES 11 SP1 might work, but are not fully supported.
- 3. NetWare 6.5 SP8 might work with limited support.

The following NAS devices are supported as hosts for scan targets.

Table D-2 Supported Scan Target NAS Hosts

NAS Device	File Reporter 3.6	
NetApp Filer with OnTAP 8.x (7 mode or Cluster mode)	√ ¹	
NetApp Filer with OnTAP 9. <i>x</i>	×	
Isilon OneFS 7.2	√ 1	
Isilon OneFS 8.x	×	

- 1. Older versions of NetApp OnTAP and Isilon OneFS might work but are not supported.
- 2. Other NAS devices not listed here might work with limited support if running a vendor supported version of the device and management software.

D.2 File System Metadata

The following table lists file system scanning capabilities of File Reporter.

Metadata Feature	Windows NTFS	Windows ReFS	OES NSS ¹	OES NCP Volumes
File Name / Extension	*	*	*	×
File Size	×	×	×	*
File Sparse Size	×	×	×	×
File Compressed Size	*	×	×	×
File Size on Disk ²	¥	×	×	×
Create Time	×	×	×	*
Modify Time ³	×	×	×	*
Access Time ³	×	×	×	*
Directory Quota	√ ⁴	×	×	×
Owner	×	×	×	*

 Table D-3
 File System Metadata Support

- 1. Even though NSS volumes support compression, they only report compression metrics at the volume level, not on a per-file basis.
- File size-on-disk calculations are currently performed using an assumed 4 KB block size, except when using AgentFS for Windows file systems, which attempts retrieval of the actual allocation size.

- 3. Access and Modify time stamps for directories are not consistently defined across file system types. These time stamps should only be considered for file entries.
- 4. Directory Quotas for Windows NTFS volumes are only available on Windows 2008 R2 and later servers, and only if the File Server Resource Manager (FSRM) Role has been installed.
- 5. Scanning of NSS 64 volumes is supported only by:
 - Agent for OES Linux running on OES 2015 SP1 or later
 - Legacy Agent for Windows running on Windows Server 2008 R2 or later with OES Client 2 SP4 or later

D.3 Security Scans — Active Directory File Systems

Windows Component	Supported	Notes
Share Permissions	×	
Security Descriptors	*	Includes the ACLs and ACEs, owner, and all ACE and security descriptor flags. However, only security descriptors for folders are currently collected. Additionally, deny ACEs are not factored into calculations for Permission by Identity or Permission by Path reports.
Universal Security Groups	×	
Global Security Groups	×	
Local Security Groups	×	The local security groups themselves are collected, but group memberships for local security groups are not currently processed.
Nested Group Memberships	*	Nested group membership is collected as a flat list of all intermediate and leaf groups, users, and other security principals. The hierarchy of group nesting is not currently preserved.
Primary Groups	×	
Local Security Authority (LSA) Privileges	×	LSA privileges are not currently collected.

 Table D-4
 Permission Scan Capabilities for Active Directory Environments

D.4 Security Scans — eDirectory File Systems

Table D-5 Permission Scan Capabilities for eDirectory Environments

Novell Component	Supported	Notes
Trustees	*	Only trustees for directories are currently collected.

Novell Component	Supported	Notes
Inherited Rights Masks (IRMs)	0	These are fully scanned and collected, but reporting does not calculate them for Permissions by Path or Permissions by Identity reports.
Security Equivalence	*	For calculation of effective rights, security equivalence is collected for all objects that are direct trustees of any file system folder entry, as well as implicit trustees.
Rights Inherited from eDirectory	*	All users in eDirectory that have Write or Supervisor access to the server object automatically have Supervisor rights to all volumes on that server.
eDirectory Inherited Rights Filters (IRFs)	×	IRFs are not currently collected nor reported.

D.5 Volume Free Space Scans

- Free space for NSS volumes is currently calculated as volume free space + purgeable space.
- Used space for NSS volumes is currently calculated as total size calculated free space. This
 means that the volume compressed size is included along with actual space used.
- For NSS volumes that are oversubscribed on a shared NSS Pool, the volume total size of each volume in the pool will change as data is added or removed from other volumes in the pool. This is known behavior for oversubscribed volumes.

Oversubscribed NSS volumes are defined as two or more NSS volumes that are set to grow to the size of a shared NSS Pool.

 NSS 64 volumes are supported by Agents running on OES 2015 servers or Windows Server 2008 R2 or later with Open Enterprise Server Client 2 SP4 or later.

D.6 Other Microsoft Supported Features

- Multiple domains in a single forest
- Distribute File System (DFS) running in domain-based mode

D.7 Current Limitations

The following are scan limitations of File Reporter 3.6:

- Microsoft Environments
 - No scanning for workstations
 - No scanning for standalone servers
 - No support for Distributed File System (DFS) in standalone mode
 - No support for Single Label Domains

- No support for FAT or FAT32 file systems
- No support for Trusted Forests
- Micro Focus (Novell) Environments
 - NetWare Traditional File System (TFS) volumes are not supported.

Glossary

Agent: A service that can run on Micro Focus Open Enterprise Server and Microsoft Windows Server hosts. Agents can examine and report on NSS and NTFS file systems and content. Additionally, Agents examine and report on file system security, including folder rights, trustee assignments, and permissions.

AgentFC: Agent enabled to perform file content scanning.

AgentFS: Agent enabled to perform file system scanning.

Analytics Tools: Windows workstation application included in the Client Tools designed to analyze data from scans. The current Analytics Tools include the Dashboard, Pivot Grid, and Tree Map.

Baseline Scan: A scan that you save as a reference for a comparison with another scan via a Historical Comparison report. You can have one File System Baseline scan and one Permissions Baseline scan for each storage resource.

Built-in Reports: With the exception of Custom Query reports, all of the report types that you can generate through the options displayed on the Add Report Definition page.

Current Scan: The most recent scan of a storage resource.

Custom Query Reports: Custom reports generated through SQL commands to the database. Custom Query reports can be generated both from the File Reporter browser-based administrative interface and from the Report Designer client tool.

Engine: The component that runs File Reporter.

The Engine does the following:

- Schedules the scans that the Agents conduct
- · Compiles scans for inclusion in a report
- · Provides the report information to the user interface
- Determines that a condition has been met to start a triggered report
- Runs scheduled reports
- Monitors how many agents are online
- Sends notifications that File Reporter has completed a scan or generated a report

File Content Scan: The process of scanning file content for specified patterns (e.g. U.S Social Security numbers, credit card numbers, etc.). File Content scans are performed by an AgentFC on a Windows storage device.

Historic Comparison Report: File system or permissions reports that specify the differences between two similar scan types of the same target system. Historic Comparison reports can compare Baseline scans to Previous scans, Baseline scans to Current scans, and Previous scans to Current scans.

Identity System: Refers to the supported directory services, which are eDirectory and Active Directory. File Reporter can report on storage resources that reside in either identity system.

ManagerFC: Service that is responsible for the execution and management of file scan jobs. The service performs the following tasks when processing a scan job:

- Enumeration of files in target paths
- · Submission of files to scan queues in the message broker based on filter criteria
- Processing of scan results and update of result data to the database and scan result files

Micro Focus File Dynamics: A Windows network file management system utilizing Microsoft Active Directory to enacted policies. Identity-driven policies automate tasks that are traditionally done manually, resulting in cost savings and the assurance that tasks are being performed properly. Targetdriven policies offer data migration, cleanup, workload, and protection from data corruption and downtime through nearline storage backup of high-value targets, enabling quick recovery of files and their associated permissions. File Reporter can output reports that can be imported into File Dynamics Workload policies for remediation.

Micro Focus Storage Manager: A network file management system that utilizes directory services enacted policies to automatically manage user and group network storage. When installed and configured in the same network, File Reporter can report on Storage Manager policies.

Preview Report: A report generated through the **Generate Preview** option. Might also be referred to as "viewing the report in Preview mode."

Previous Scan: When the **Retain existing Previous scan** option is selected in the Scan Policy Editor, the status of the Current scan becomes the Previous scan. You can then use the Previous scan as a reference for a Historic Comparison report. There is only one File System Previous scan and one Permissions Previous scan for each storage resource.

Proxy Agent: An Agent that performs agent services on a storage resource through a proxy association. NAS devices, clustered configurations, and NetWare servers require proxy agents.

Proxy Target: Servers, clusters, and NAS devices that are not hosting an Agent but are being scanned through a proxy agent.

Report: The result of a report request specified through the report definition. Reports are first presented on-screen in either Preview or Stored mode. You can save reports in a number of different formats.

Scan: Comprehensive file information pertaining to a storage resource at a specific time. Information from scans is the means of generating reports.

Scan Policy: Specifies how and where the scan is conducted. All scans are managed through a scan policy.

Scan Processor: Introduced in File Reporter 3.0, the Scan Processor alleviates some of the workload that was previously performed by the Engine. This workload includes storing the scans in the database and processing the scans.

Scan Target: The storage resource on the network that can be scanned by File Reporter.

Storage resource: A resource within the network environment that File Reporter monitors and reports on. Depending on the environment in which File Reporter is deployed, a storage resource can be a server volume, a Windows server share, a Micro Focus Storage Manager policy, or a network folder path.

Stored Report: A report that is stored in the Reports folder of the Engine. By default, a stored report is only stored for 30 days, but this setting can be adjusted through the Stored Reports Configuration page.

Unformatted Report: Report data generated as "raw" text rather than formatted and presented in a formatted report. In some instances, having an unformatted report might be useful for doing extensive sorting and filtering of the report data through a product such as Microsoft Excel.

Web Application: The File Reporter administrative interface that runs on top of Microsoft IIS.

Documentation Updates

This section contains information about documentation content changes that were made in this *Micro Focus File Reporter 3.6 Administration Guide* after the initial release of File Reporter 2.0. The changes are listed according to the date they were published.

The documentation for this product is provided on the Web in two formats: HTML and PDF. The HTML and PDF documentation are both kept up-to-date with the changes listed in this section.

If you need to know whether a copy of the PDF documentation that you are using is the most recent, the PDF document includes a publication date on the title page.

The documentation was updated on the following dates:

F.1 November 27, 2018

Updates were made to the following section:

Location	Update Description
Section 2.2, "How File Reporter Works," on page 15.	Updated diagram.

F.2 July 2, 2018

Updates were made to the following sections:

Location	Update Description
Chapter 7, "Content Scanning and Reporting," on page 101.	New chapter.
Appendix B, "Security Settings," on page 153.	Various updates.
Appendix C, "Log File Locations," on page 157.	Log file locations to new components.
Appendix D, "Agent Scan Capabilities," on page 159.	Updated supported scan target hosts, scan target NAS hosts, and file system metadata support.

F.3 July 19, 2016

Updates were made to the following sections:

Location	Update Description
Chapter 9, "Using the Report Viewer," on page 117.	New section.
Chapter 10, "Using the Client Tools," on page 121.	New section.

Location	Update Description
Chapter 11, "Using Report Designer," on page 131.	New section.
Appendix D, "Agent Scan Capabilities," on page 159.	Updated this section.

F.4 August 5, 2015

Updates were made to the following sections:

Location	Update Description
Section D.7, "Current Limitations," on page 162.	Removed information on support for NetWare Traditional file system support.
Appendix E, "Glossary," on page 165.	Removed information on support for NetWare Traditional file system support.

F.5 April 27, 2015

Updates were made to the following sections:

Location	Update Description
Section 5.1.1, "Scan Retention," on page 42.	New section.
Section 5.4, "Creating Scan Policies," on page 44.	Information on Previous scans.
Section 5.5, "Establishing a Baseline Scan," on page 49.	New section.
Section 5.6, "Clearing a Baseline Scan," on page 50.	New section.
Section 6.8, "Historic Comparison Reports," on page 86.	New section.
Section 6.16, "Copying a Report Definition," on page 98.	New section.
Appendix E, "Glossary," on page 165.	New entries.

F.6 October 7, 2014

Updates were made to the following sections:

Location	Update Description
"Custom Query Reports" on page 20.	New section.
Section 5.14, "Retrying Failed Scans," on page 53.	New section.
Section 6.10, "Custom Query Reports," on page 92.	New section.
Chapter 10, "Using the Client Tools," on page 121.	New section.

F.7 February 18, 2014

Updates were made to the following sections:

Location	Update Description
Various.	Updated references to database references to include information specific to Microsoft SQL Server 2012.
Section 8.3, "Considerations for Reporting on NAS Devices," on page 113.	Updated this section to include new procedures for EMC Isilon and other NAS devices.
Section 6.3, "Changing the Report Data Font," on page 59.	Expanded this section.
Appendix D, "Agent Scan Capabilities," on page 159.	New section.

F.8 November 26, 2013

Updates were made to the following sections:

Location	Update Description
Section 6.3, "Changing the Report Data Font," on page 59.	New section.

F.9 April 25, 2013

Updates were made to the following sections:

Location	Update Description
Section 3.3.2, "Configuring the Web Interface," on page 28.	New procedures.
Appendix A, "Filtering," on page 147.	New section.
Appendix B, "Security Settings," on page 153.	New section.
Appendix C, "Log File Locations," on page 157.	New section.

F.10 February 13, 2013

Updates were made to the following sections:

Location	Update Description
Section 3.1, "Supported Browsers," on page 25.	Removed Internet Explorer 8 from the list of supported browsers.
Section 5.4, "Creating Scan Policies," on page 44.	Specified that a target path cannot be included in more than one scan policy of the same type.

Location	Update Description
Section 6.7.1, "Generating a Filename Extension Report," on page 77.	Inserted a note on the maximum length of file extensions.