



# **Cisco Configuration Assurance Solution Report Server User Guide**

Software Release 2.0

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Report Server User Guide*

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## Copyright

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## Documentation Conventions

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OPNET documentation uses specific formatting and typographic conventions to present the following types of information:

- Objects, examples, and system I/O
- Object hierarchies, notes, and warnings
- Computer commands
- Lists and procedures

### Objects, Examples, and System I/O

- Directory paths and file names are in plain Courier typeface:

```
opnet\release\models\std\ip
```

- Function names in body text are in italics:

```
op_dist_outcome()
```

- The names of functions of interest in example code are in bolded Courier typeface:

```
/* determine the object ID of packet's creation module */  
src_mod_objid = op_pk_creation_mod_get (pkptr);
```

- Variables are enclosed in angle brackets (< >):

```
<opnet_user_home>/op_admin/err_log
```

### Object Hierarchies, Notes, and Warnings

Menu hierarchies are indicated by right angle brackets (>); for example:

```
Open File > Print Setup > Properties...
```

Attribute hierarchies are represented by angled arrows (▲) that indicate that you must drill down to a lower level of the hierarchy:

Attribute level 1 ▶ Attribute level 2 ▶ Attribute level 3

---

**Note**—Notes are indicated by text with the word Note at the beginning of the paragraph. Notes advise you of important supplementary information.

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**WARNING**—Warnings are indicated by text with the word WARNING at the beginning of the paragraph. Warnings advise you of vital information about an operation or system behavior.

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## Computer Commands

These conventions apply to windowing systems and navigation methods that use the standard graphical-user-interface (GUI) terminology such as click, drag, and dialog box.

- Key combinations appear in the form “press <button>+x”; this means press the <button> and x keys *at the same time* to do the operation.
- The mouse operations *left-click* (or *click*) and *right-click* indicate that you should press the left mouse button or right mouse button, respectively.

## Lists and Procedures

Information is often itemized in bulleted (unordered) or numbered (ordered) lists:

- In bulleted lists, the sequence of items is not important.
- In numbered lists, the sequence of items is important.

Procedures are contained within procedure headings and footings that indicate the start and end of the procedure. Each step of a procedure is numbered to indicate the sequence in which you should do the steps. A step may be followed by a description of the results of that step; such descriptions are preceded by an arrow.

---

### Procedure FM-1 Sample Procedure Format

- 1 Procedure step.
  - ➔ Result of the procedure step.

- 2 Procedure step.

### End of Procedure FM-1

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For more information about using and maintaining OPNET documentation, see the OPNET IT Sentinel Documentation Guide.



## Document Revision History

Release Date	Product Version	Chapter	Description of Change
August 2005	2.0	Using the Report Server	<ul style="list-style-type: none"> <li>Updated screenshots.</li> </ul>
		Report Server Administration	<ul style="list-style-type: none"> <li>Included Migrating Data from a Previous Installation.</li> <li>Included Logging in to Report Server.</li> </ul>
May 2005	2.0	Using the Report Server	<ul style="list-style-type: none"> <li>Changed Report Server Workflow.</li> <li>Added information for changing password.</li> <li>Significant enhancements and changes to Viewing Reports on the Report Server.</li> <li>Added Working with Sub-Folders.</li> </ul>
		Report Server Administration	<ul style="list-style-type: none"> <li>Significant enhancements to User Administration.</li> <li>Significant enhancements to Report Server Maintenance.</li> <li>Updated all graphics.</li> </ul>
February 2005	2.0	Using the Report Server	<ul style="list-style-type: none"> <li>Updated Report Server Workflow.</li> <li>Updated all graphics.</li> <li>Updated methods for viewing reports.</li> <li>Added section Working with Sub-Folders.</li> </ul>
August 2004	1.0	Using the Report Server	<ul style="list-style-type: none"> <li>Added report_server_password preference.</li> </ul>
February 2004	1.0	Using the Report Server	<ul style="list-style-type: none"> <li>Added Preferences on page RS-2-18</li> </ul>
January 2004	1.0	All	<ul style="list-style-type: none"> <li>First issue</li> </ul>



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# 1 Report Server Administration

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The Report Server is a central repository for reports such as documents, charts, tables, and images. OPNET applications generate these reports and publish them to the Report Server. Users can use a web browser such as Netscape or Internet Explorer to view the reports.

The Report Server administrator performs the following tasks:

- Starting and shutting down the Report Server
- Adding usernames, passwords, and roles to the list of authorized Report Server users
- Deleting usernames from the user list
- Modifying passwords assigned to usernames
- Adding roles to usernames
- Deleting roles from usernames
- Setting the activation period of the Report Server self-maintenance feature
- Setting the maximum age limit of published reports
- Migrating reports from a previous installation
- Specifying the License Server to use

## Logging in to Report Server

To log in to Report Server, open your preferred Internet browser and enter the URL as follows:

```
http://<hostname>:<port_number>/rs
```

Where:

- **hostname**—the name or IP address of the machine on which Report Server is installed.
- **port\_number**—the port number you assigned for Report Server. The default value is 9090.

When you direct your browser to the Report Server, the following screen appears:

**Figure 1-1 Report Server Login Screen**



Enter your assigned username and password to log in to Report Server.

---

**Note**—Report Server comes with three preconfigured accounts. To login for the first time, use any of the following accounts and change the password immediately, following Procedure 1-4: *admin* (password: opnet), *test1* (password: test1), and *test2* (password: test2).

---

## Starting and Stopping the Report Server

Before you begin operations on the Report Server, you need to know how to start and stop the Report Server. Procedures for starting and stopping are different, depending on whether you installed the Report Server as a Windows service or as an application.

---

**Note**—Typically you will install Report Server as a service. In this way, the Report Server will run even when the host machine does not have any user logged on, and will automatically run when the host is rebooted. On the other hand, install Report Server as an application when the previously described situation does not apply or for debugging purposes. You must make this decision before or during the installation. It cannot be changed after installation.

---

### Using the Windows Service

If you installed the Report Server as a service, use the Windows Services to start and stop the Report Server.

---

#### Procedure 1-1 Using Windows Services to Start or Stop the OPNET Report Server

- 1 From Windows, choose Start > Settings > Control Panel.
  - ➔ The Control Panel window appears.

- 2 Choose Administrative Tools.
  - ➔ The Administrative Tools window appears.
- 3 Choose Services.
  - ➔ The Services window appears.
- 4 Right-click on the OPNET Report Server item in the Services window.
  - ➔ A popup menu appears.
- 5 From the popup menu, make the selection to start or stop the Report Server.
  - ➔ Your action either starts the OPNET Report Server or shuts it down.

#### End of Procedure 1-1

---

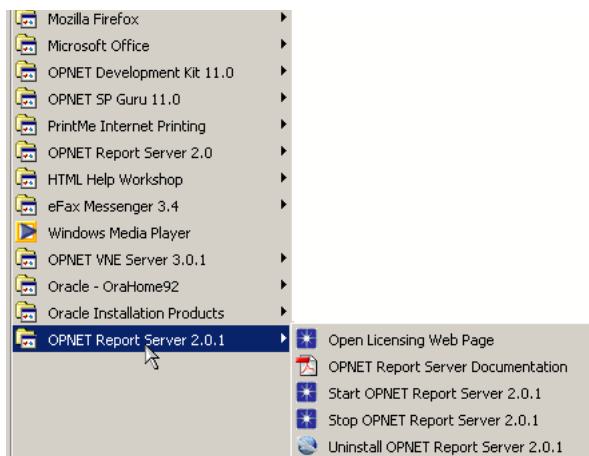
### Using the Windows Application

If you installed the Report Server as an application, use the Report Server program group to start and stop the Report Server.

---

#### Procedure 1-2 Using Report Server Program Group to Start or Stop the OPNET Report Server

- 1 From Windows, choose Start > Programs > OPNET Report Server 2.0.1.



- 2 Make your selection from the menu.
  - 2.1 Choose Start OPNET Report Server 2.0.1 to start the application.
    - ➔ A console window opens on the desktop. You may minimize this window.

**2.2** Choose Stop OPNET Report Server 2.0.1 to stop the application.

➔ The console window closes.

**Note**—You may also navigate to the licensing web page, open this documentation, or uninstall Report Server from this menu.

---

**End of Procedure 1-2**

---

## User Administration

Every Report Server user needs valid credentials to view or publish reports. As the Report Server administrator, it is your responsibility to create, maintain, and provide those credentials. The administrator assigns each user a username and password, and assigns one or more roles to each username. A user can view only those reports that allow access to the specified username or roles configured for that username. The administrator can

- add, modify, and delete users
- add and delete roles
- modify passwords
- set the maximum age limit for all reports on the Report Server
- set the activation time for deleting reports periodically according to the maximum age limit.

If you have the admin role assigned to your user account, you can perform user administration. The procedures that follow describe how to do each task.

---

**Procedure 1-3 Adding a User**

- 1 Log in to your Report Server as an administrator.

## 2 Navigate to Settings > User Account.

[Home](#) | [View by Products](#) | [Search](#) | [Saved Search](#) | [Settings](#)

[Filter Definition](#) [User Account](#) [Server](#) [Migration](#)

**Change Your Password**

Current Password:

New Password:

Re-type New Password:

**Modify User Accounts**

Select User **Add New User**

First Name:

Last Name:

Roles: Current All

admin  
guest  
manager

New Password:

Re-type New Password:

3 Select “Add new user” from the drop-down menu in the Modify User Accounts section.

4 Enter username.

**Note**—Usernames may contain alphabetical characters (i.e., a-z, A-Z) and numeric characters (0-9), as well as the underscore symbol (\_). For example, John\_Q\_Public2 is a valid username.

5 Enter the user’s First Name and Last Name in the appropriate spaces.

6 Select a role for the user in the Roles box and use the directional arrows to add or remove roles from the user’s list of roles.

**Note**—Valid roles include *admin*, *manager*, or *guest*. Only the admin role has privileges to manage user accounts.

7 Enter a password for the user in both the New Password box and the Verify New Password box. The entries must match.

8 Click Save, when finished adding users.

### End of Procedure 1-3

---

**Procedure 1-4 Changing a User Password**

- 1 Log in to your Report Server as an administrator.
- 2 Navigate to Settings > User Account.
- 3 Select the username of interest from the drop-down menu in the Modify User Accounts section.

The screenshot displays the 'Modify User Accounts' web page. At the top, there is a blue header with the text 'Modify User Accounts'. Below the header, there is a dropdown menu labeled 'Select User' with 'jgreen' selected. Underneath, there are two text input fields: 'First Name' containing 'Joe' and 'Last Name' containing 'Green'. Below these is a 'Roles' section with two columns: 'Current' and 'All'. The 'Current' column contains 'guest'. The 'All' column contains 'admin', 'guest', and 'manager'. Between the columns are two arrow buttons: '<<' and '>>'. At the bottom of the form, there are two text input fields: 'New Password' and 'Re-type New Password'. Below these fields are two buttons: 'Save' and 'Delete'. Red circles are drawn around the 'Select User' dropdown and the 'New Password' and 'Re-type New Password' fields.

- 4 Enter a new password in the New Password and Verify New Password boxes. The entries must match.
- 5 Click Save.

**End of Procedure 1-4**

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---

**Procedure 1-5 Changing a User's Role**

- 1 Log in to your Report Server as an administrator.
- 2 Navigate to Settings > User Account.
- 3 Select the username of interest from the drop-down menu in the Modify User Accounts section of the page.

- 4 Select a role for the user in the Roles box and use the directional arrows to add or remove roles from the user's list of roles.

The screenshot shows the 'Modify User Accounts' interface. At the top, there is a blue header with the text 'Modify User Accounts'. Below the header, there is a 'Select User' dropdown menu with 'jgreen' selected. Underneath, there are two text input fields: 'First Name: Joe' and 'Last Name: Green'. The 'Roles' section is highlighted with a red box. It consists of two columns: 'Current' and 'All'. The 'Current' column contains a text box with 'guest'. The 'All' column contains a text box with 'admin', 'guest', and 'manager' listed vertically. Between the two columns are two small buttons: '<<' and '>>'. Below the roles section, there are two text input fields: 'New Password:' and 'Re-type New Password:'. At the bottom of the form, there are two buttons: 'Save' and 'Delete'.

- 5 Click Save.

➔ You are returned to the User Account page, and all entries are saved.

#### End of Procedure 1-5

---

#### Procedure 1-6 Deleting a User

- 1 Log in to your Report Server as an administrator.
- 2 Navigate to Settings > User Account.
- 3 Select the username of interest from the drop-down menu in the Modify User Accounts section.
- 4 Click the Delete button.
- 5 Click OK to confirm user deletion or Cancel to quit deletion.
- 6 Restart Report Server to effect all changes.

#### End of Procedure 1-6

---

## Report Server Maintenance

When you install Report Server, you are asked to specify a License Server (hostname or IP address and port). This release of Report Server lets you change the License Server at any time. Report Server also comes with default settings for report aging and maintenance, which you can modify.

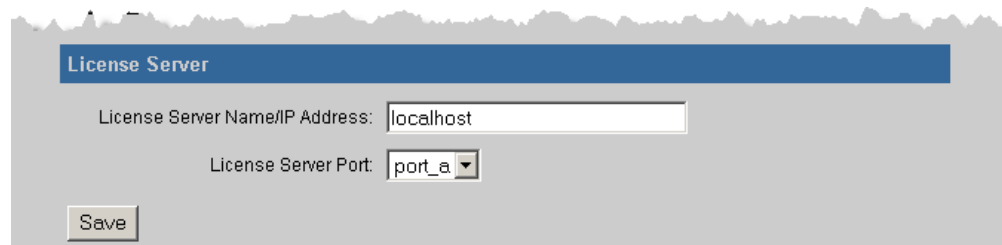
### License Server

The Report Server obtains a license to run from a License Server. In this release of Report Server, you can easily change the name of the License Server and license server port you want to use.

---

#### Procedure 1-7 Specifying the License Server

- 1 Log in to your Report Server as an administrator.
- 2 Navigate to the Settings > Server page.



- 3 Specify the License Server you want to use by hostname or IP address.
- 4 Specify the License Server port you want to use. The default is port\_a.
- 5 Click Save.
- 6 Restart Report Server to effect all changes.

#### End of Procedure 1-7

---

### Report Aging and Maintenance

When it is first installed, OPNET Report Server comes with default settings for the maximum age limit—20 days—and the activation period—24 hours. To change these values, you must make sure to set each one with some value (that is, do not leave either value empty). Set them both because one will not work correctly without the other. If you do not set the maximum age limit, it defaults to a value of 0, which means that all reports will be deleted when the maintenance service is activated. If you do not set the activation period, it also defaults to a value of 0, which means the maintenance service never runs.

Administrators have the ability to control unbounded disk usage by setting a maximum age limit for all reports published to the Report Server. Every report has a timestamp and the timestamp is the starting point for the aging process. Any report that is published without a specified age limit will stay on the Report Server indefinitely unless there is a mechanism in place to delete it.

The maintenance service activates itself periodically. This service ensures that each published report will be deleted eventually from the Report Server. You can configure report deletion from the Settings > Server menu.

After it is activated, the maintenance service checks each published report on the Report Server to see if the age of the report exceeds a threshold age limit. Reports older than the threshold age limit are deleted. Whether a report exceeds the threshold is determined either by the maximum age limit on all reports or a specified age limit (if there is one) for an individual report, depending on whichever threshold is exceeded first.

Reports published to the Report Server do not have to set an age limit for any report. In this case, when the maintenance service activates, the Report Server deletes the report based on whether the report is older than the maximum age limit.

Make sure that report publishers know the value of the maximum age limit. If the publisher prefers the maximum age limit you set within the Report Server, the publishing user may choose not to set an individual age limit for each report.

To configure report maintenance, follow Procedure 1-8.

---

### Procedure 1-8 Configuring Report Maintenance Settings

- 1 Log in to your Report Server as an administrator.
- 2 Navigate to Settings > Server.

The screenshot shows the 'Server Options' configuration page. At the top, there are navigation links: Home, View by Products, Search, Saved Search, and Settings. Below that are tabs for Filter Definition, User Account, Server, and Migration. The 'Server Options' section is highlighted in blue. It contains two main configuration areas: 'Run Maintenance Task Every' and 'Maximum Report Age'. Each area has three input fields for Days, Hours, and Minutes. The 'Run Maintenance Task Every' fields are set to 1, 0, and 0 respectively. The 'Maximum Report Age' fields are set to 20, 0, and 0 respectively. There is a 'Run Now' button below the first set of fields and a 'Save' button at the bottom left of the form.

- 3 Schedule the maintenance task.
  - 3.1 Enter days, hours, and minutes for the interval at which you wish the maintenance task to run. (e.g., if you want it to run every 24 hours, enter “1” in the Day box [or “24” in the Hours box] and “0”, or nothing, in the Minutes box).
  - 3.2 Enter the maximum age for a report in the repository in days, hours, and minutes. (e.g., if you want reports to be removed after 31 days, enter “31” in the Days box).
- 4 Click Save.
- 5 Restart Report Server to effect all changes.

---

**End of Procedure 1-8**

---

## Migrating Data from a Previous Installation

If you want to retain information from previous versions of Report Server, you can migrate the previous data after installing the new version of Report Server. Use the following procedure to migrate the old data.

---

**WARNING**—If you have uninstalled your previous version of Report Server, you cannot migrate the data.

---

---

**Procedure 1-9 Migrating Data from a Previous Report Server Version**

---

- 1 Install the newest version of Report Server.
- 2 Log in to your Report Server as an administrator.
- 3 Navigate to Settings > Migration.
- 4 Enter the name of the directory for the previous Report Server version in the space provided. For example, `C:\OPNET\ReportServer\1.0.0`.
- 5 Click the Verify button. The migration tool will check to see if the entry is a valid directory. If the specified directory is not found or does not have any reports, you will see a warning message and no migration is performed.
- 6 Select the checkbox to “Import Custom Folders and Filters”, if desired. This checkbox will cause the migration tool to import all previously created custom folders and filters. Not checking this box will not impact the migration of any reports, however.
- 7 Click Import to complete the migration or Cancel to quit.

---

**End of Procedure 1-9**

---

## 2 Using the Report Server

This chapter describes how to use the Report Server web interface to retrieve and view reports. Users use a web interface to search and view reports published to the Report Server. Users with appropriate privileges can also manage reports and sub-folders.

---

**Note**—For details about publishing information to the Report Server, see the product documentation for your OPNET analysis software.

---

The Report Server web interface has the following features.

- View by sub-folders or products
- Create custom sub-folders containing any combination of reports
- Filter definitions for contents of sub-folders
- Save and retrieve a search

This user guide contains information on the workflows described in Table 2-1.

**Table 2-1 Report Server Workflows**

Workflow	Section	Description
Login and change password	Logging On to the Report Server	Describes how to log on with your username and password through the web interface, and how to change your password.
View reports	Viewing Reports on the Report Server	<ul style="list-style-type: none"> <li>• View by Sub-Folder</li> <li>• Basic Search Link</li> <li>• View by Products</li> <li>• Advanced Search</li> </ul>
Manage Sub-Folders	Working with Sub-Folders	Describes how to manage the contents of the sub-folders, add new sub-folders, and hide/show sub-folders.
Use environment preferences	Preferences	Describes the preferences for OPNET products related to Report Server.
<b>End of Table 2-1</b>		

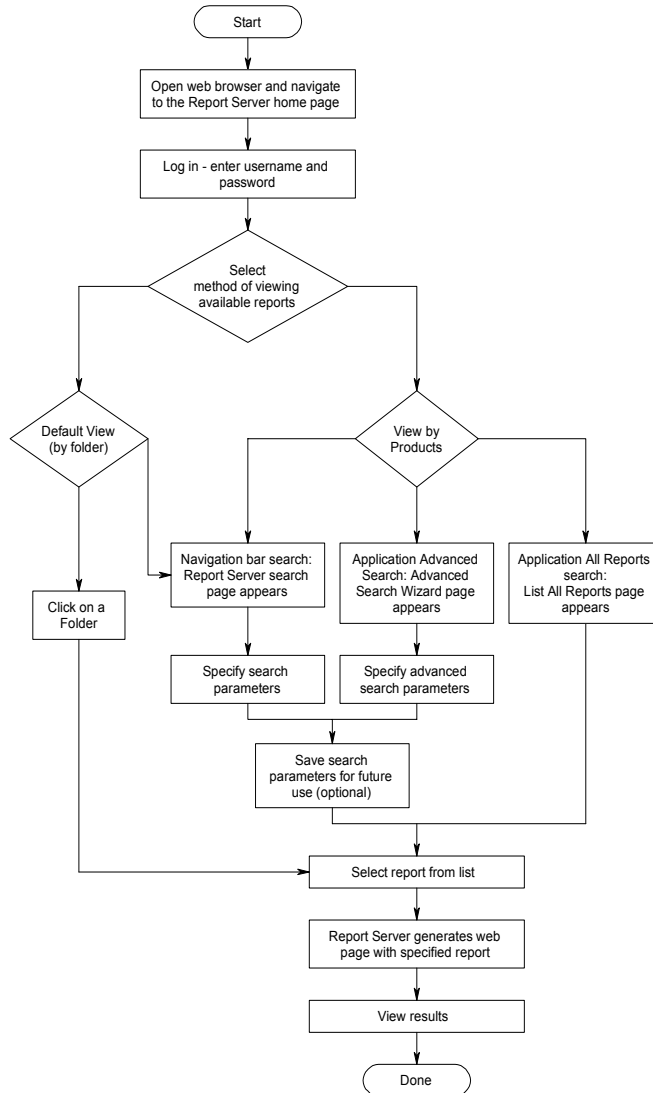
## Report Server Workflow

You can view reports by following a simple five-step process.

- 1) Log on to the Report Server using a Web browser.
- 2) Using the Report Server web browser, select one of the available search options to find the report you want to view.
- 3) Enter the correct search parameters for the report you want or select the report from a report list on the web page.
- 4) When the browser displays the report, view the report.
- 5) Log out of the Report Server.

Figure 2-1 shows the Report Server workflow.

**Figure 2-1 Workflow: Report Server Workflow**



## Logging On to the Report Server

Only users who have been assigned a username and password by the Report Server administrator can view reports on the Report Server. Users are also assigned roles. These roles determine which reports a user can access on the Report Server. For example, a report published to the Report Server might specify that only users with a role named “Sentinel” can access that report. Published reports typically use roles instead of individual user names, although the specification of individual users is allowed.

---

**Note**—You must be a registered user to log on to the Report Server. See your system administrator for account authorization.

---

---

### Procedure 2-1 Logging On to the Report Server as a Registered User

- 1 From the web browser, log on to the Report Server using the following URL:

```
http://<report server hostname>:<port selected during install>/rs
```

The default port used during installation is 9090.

➔ The Report Server login page appears (Figure 2-2).

- 2 Enter your username and password.

- 3 Click Login.

➔ The Report Server home page appears (Figure 2-3).

**End of Procedure 2-1**

---

**Figure 2-2 Report Server Login Page**

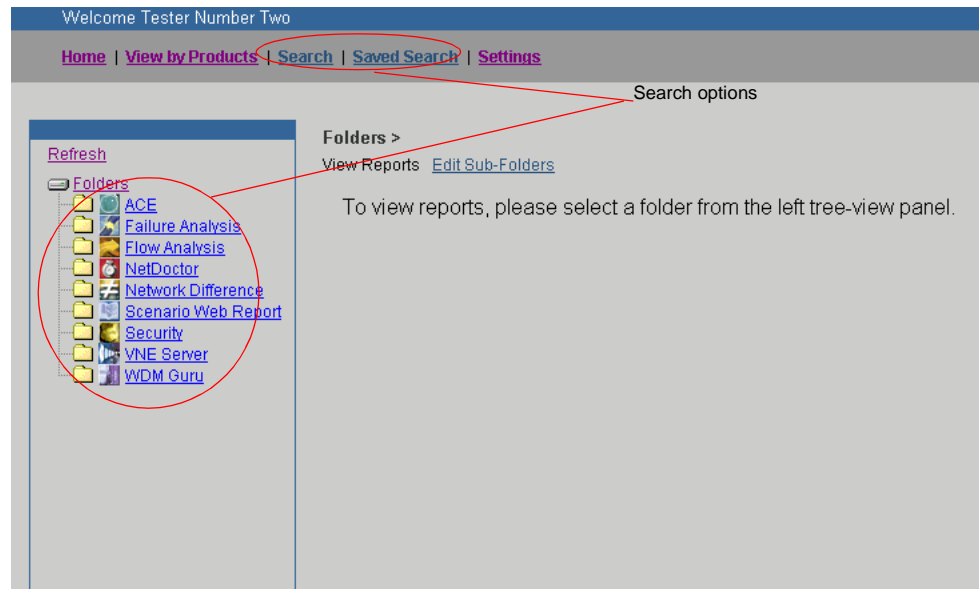


The screenshot shows a web browser window displaying the Report Server login page. At the top left, there is a logo for 'OPNET ReportServer'. Below the logo, there are two text input fields. The first is labeled 'Username' and the second is labeled 'Password'. Below these fields are two buttons: 'Login' and 'Cancel'.



A login form with two input fields: 'Username' and 'Password'. Below the fields are two buttons: 'Login' and 'Cancel'.

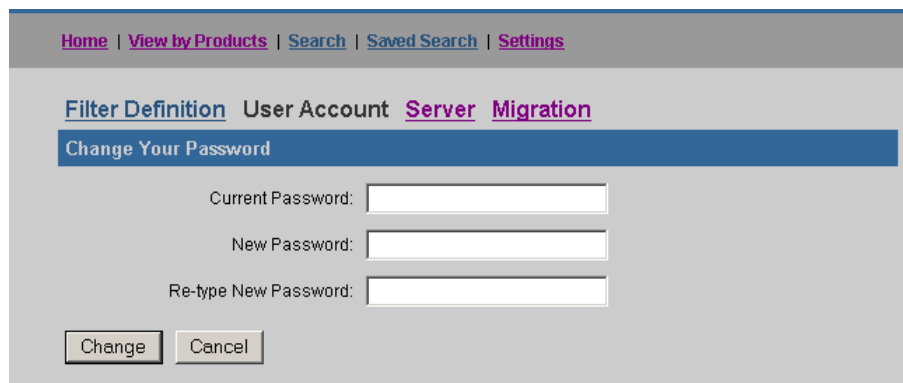
Figure 2-3 Report Server Home Page



If you forget your username or password, see your system administrator. If you wish to change your Report Server password, follow Procedure 2-2.

### Procedure 2-2 Changing Your Report Server Password

- 1 Log in to your Report Server.
- 2 Navigate to Settings > User Account.
- 3 Enter your current password and a new password, and verify your new password.



The screenshot shows the 'Change Your Password' form. At the top, there is a navigation bar with links: Home, View by Products, Search, Saved Search, and Settings. Below that is a sub-navigation bar with links: Filter Definition, User Account, Server, and Migration. The 'Server' link is highlighted. Below the sub-navigation bar is a blue header for 'Change Your Password'. The form contains three input fields: 'Current Password:', 'New Password:', and 'Re-type New Password:'. At the bottom are two buttons: 'Change' and 'Cancel'.

4 Click Change.

**End of Procedure 2-2**

## Viewing Reports on the Report Server

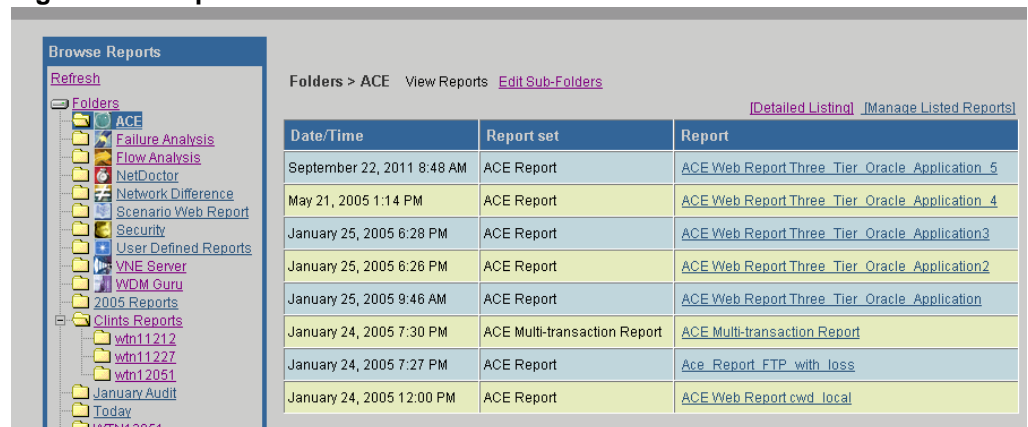
There are several ways you can access reports for viewing, as described here:

- View by Sub-Folder—From the sub-folder list in the default view, click on a sub-folder.
- Basic Search Link—From the top navigation bar, click on Search.
- View by Products—From this view, which was the default view in versions prior to 2.0, click on one of the following:
  - All Reports
  - Advanced Search

### View by Sub-Folder

The Report Server home page displays the report categories as folders. Each folder can have many sub-folders. You can select a particular folder, in the left navigation pane, or edit sub-folders by clicking on the link provided. If you select a folder, you will see a concise listing of the available reports in that folder. Figure 2-4 shows a concise list. From the list, you may click on a report name to open the report.

**Figure 2-4 Reports List**



You may also click on Detailed Listing to get an expanded view of the reports available, as shown in Figure 2-5.

**Figure 2-5 Detailed Reports List**

The screenshot shows the 'Browse Reports' interface. On the left, a folder tree is visible with 'ACE' selected. The main area displays a list of reports under the 'ACE' folder. The first report set is 'ACE Multi-transaction Report', which includes a single report: 'ACE Multi-transaction Report' from January 24, 2005, with file names 'FTP\_download\_over\_WAN,FTP\_with\_loss'. The second report set is 'ACE Report', which contains a table of reports:

Date/Time	Report	ACE File Name	Application Data (bytes)	Duration (sec)	Number of Tiers
September 22, 2011 8:48 AM	ACE Web Report Three_Tier_Oracle_Application_5	Three_Tier_Oracle_Application	76974	0.505650	3
May 21, 2005 1:14 PM	ACE Web Report Three_Tier_Oracle_Application_4	Three_Tier_Oracle_Application	76974	0.505650	3
January 25, 2005 6:28 PM	ACE Web Report Three_Tier_Oracle_Application3	Three_Tier_Oracle_Application	76974	0.505650	3
January 25, 2005 6:28 PM	ACE Web Report Three_Tier_Oracle_Application3	Three_Tier_Oracle_Application	76974	0.505650	3

Scroll bars allow you to view details to the right of the displayed area and to scroll down through the entire list of available reports. Fields in the detailed listing are slightly different for each product and include such information as report name, username, project-scenario combination against which the report was run, and so on.

## Basic Search Link

Before performing a search, it is important to know how reports are grouped. Reports are categorized as follows:

- Application—Each report is generated from within an OPNET application. This is the major categorization of the report.
- Report set—A report belongs to a report set. Report sets include NetDoctor, VNE Server Reports, Flow Analysis, and so on.
- Report—The report also belongs to a specific report category. This can include, for NetDoctor, “Common Enterprise Rules”, or “Default NetDoctor Report”. This category is typically organized by report title.

To find a report using the navigation bar on the Report Server home page, follow these steps.

### Procedure 2-3 Using the Search Link to View a Report

- 1 Log in to your Report Server.

- 2 From the navigation bar, click Search.
  - ➔ The Report Server search dialog box appears.
- 3 Specify the parameter values for the report you want to view.
- 4 If you want to save the specified values of this search, enter a file name in the “Save search as” field.
- 5 Click Search.

### End of Procedure 2-3

---

**Figure 2-6 Report Server Search Dialog Box (1 of 3)**

**Application(s)**

- SP Sentinel
- IT Sentinel
- SP Guru
- IT Guru
- WDM Guru
- Modeler
- VNE Server

**Date-time**

from:  month  day  year  hour:  min

to:  month  day  year  hour:  min

last  days

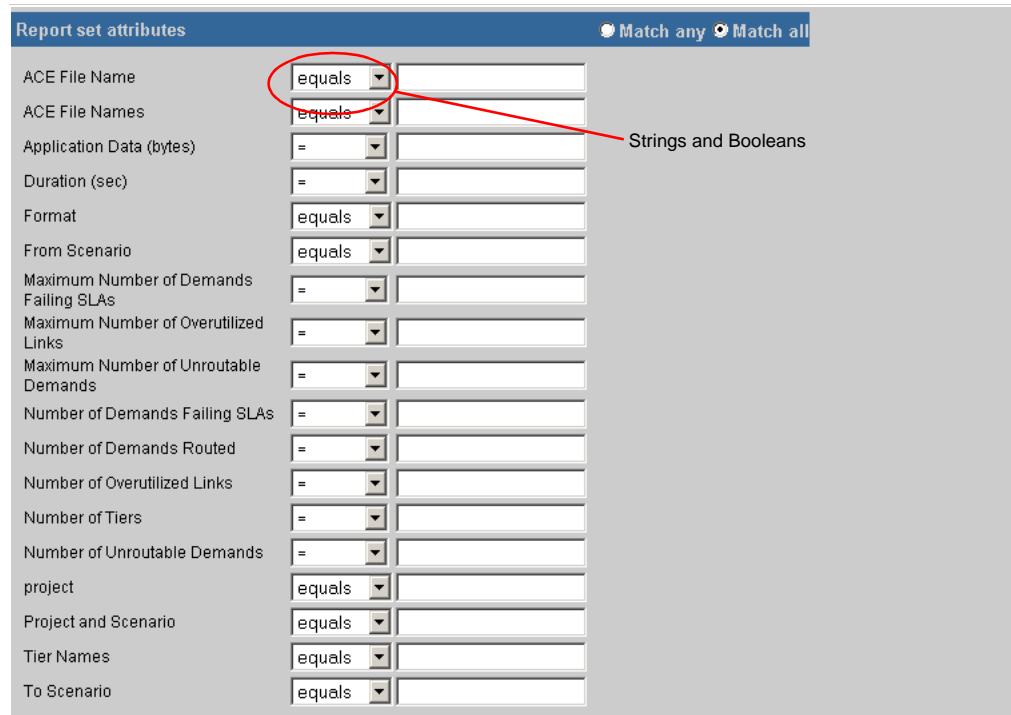
yesterday

today

**Report set attributes**  Match any  Match all

You can also indicate search parameters per report set and individual reports. These search fields, while part of the same dialog box, are shown in Figure 2-7 and Figure 2-8.

**Figure 2-7 Report Server Search Dialog Box (2 of 3)**



There are several operators you can use for your search. The operators are described in Table 2-2.

**Table 2-2 Search Operators (Part 1 of 2)**

Operator	Description
equals	Searches for exact strings in a report. This operator is not case-sensitive. For example, “ <i>equals NetDoctor</i> ”, which is the same as “ <i>equals netdoctor</i> ”, searches for the full string “netdoctor”.
contains	Searches for a string or strings within any context of the content and is not case-sensitive. For example, “ <i>contains Doc</i> ”, which is the same as “ <i>contains doc</i> ”, finds “NetDoctor”, “document”, and “indoctrinate”.
any of	When given a list of strings, separated by commas, searches for a whole string match on any of the strings provided. This operator is not case-sensitive. For example, “ <i>any of netdoctor, ace web report</i> ” finds “NetDoctor” and “ACE Web Report”. It will not find “NetDoctor Analysis” or “ACE Example”.

**Table 2-2 Search Operators (Part 2 of 2)**

Operator	Description
is	If a report or report set allows a Boolean search, you can use the “is” operator and specify TRUE or FALSE as the condition.
numeric	For numeric fields, you can use “=”, “<”, “<=”, “>”, “>=”, or “in range”. If you select in range, choose either the “-” delimiter or the “,” delimiter. For example, “in range 2-15” is correct, as is “in range 2,5”. Multiple ranges are not supported.
matches	Searches for a pattern match, as defined by Java 1.4. You can use wildcards, such as “.*” to represent 0 or more instances of additional characters. For example, “matches net.*” finds “Net Report”, “NetDoctor”, and “NetWare”, but not “Internet”. This operator is not case-sensitive.
<b>End of Table 2-2</b>	

**Figure 2-8 Report Server Search Dialog Box (3 of 3)**

Report attributes ● Match any ○ Match all

ACE File Name	equals	<input type="text"/>
ACE File Names	equals	<input type="text"/>
Application Data (bytes)	=	<input type="text"/>
Duration (sec)	=	<input type="text"/>
Format	equals	<input type="text"/>
From Scenario	equals	<input type="text"/>
Maximum Number of Demands Failing SLAs	=	<input type="text"/>
Maximum Number of Overutilized Links	=	<input type="text"/>
Maximum Number of Unroutable Demands	=	<input type="text"/>
Number of Demands Failing SLAs	=	<input type="text"/>
Number of Demands Routed	=	<input type="text"/>
Number of Overutilized Links	=	<input type="text"/>
Number of Tiers	=	<input type="text"/>
Number of Unroutable Demands	=	<input type="text"/>
project	equals	<input type="text"/>
Project and Scenario	equals	<input type="text"/>
Tier Names	equals	<input type="text"/>
To Scenario	equals	<input type="text"/>

Save search as

## Search Results

Results of your search are displayed in a table that lists the timestamp of the report, the report set to which the report is assigned, and a clickable link to the report.

**Figure 2-9 Search Results**

The screenshot shows a web interface titled "Search Results". At the top right, there are two links: "[Detailed Listing]" and "[Manage Listed Reports]". Below these links is a table with three columns: "Date/Time", "Report set", and "Report". The table contains 12 rows of data, alternating between light blue and light yellow background colors for each row.

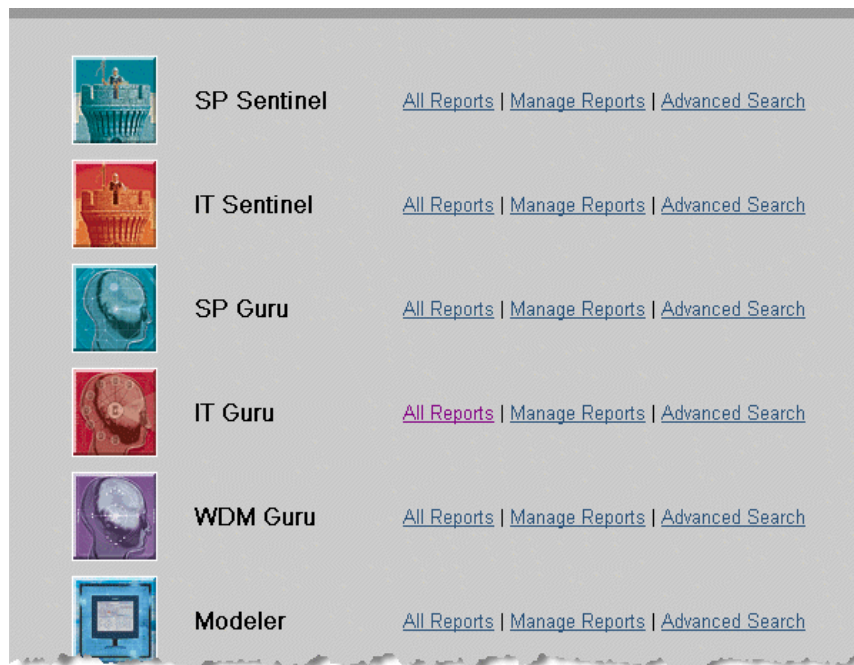
Date/Time	Report set	Report
January 26, 2005 10:13 AM	VNE Server Reports	<a href="#">Network Report Navigator</a>
January 26, 2005 9:52 AM	VNE Server Reports	<a href="#">Network Report Navigator</a>
January 26, 2005 9:39 AM	VNE Server Reports	<a href="#">Network Report Navigator</a>
January 26, 2005 9:24 AM	VNE Server Reports	<a href="#">Network Report Navigator</a>
January 26, 2005 9:23 AM	VNE Server Reports	<a href="#">Network Report Navigator</a>
January 26, 2005 9:08 AM	VNE Server Reports	<a href="#">Network Report Navigator</a>
January 25, 2005 6:28 PM	ACE Report	<a href="#">ACE Web Report Three_Tier_Oracle_Application3</a>
January 25, 2005 6:26 PM	ACE Report	<a href="#">ACE Web Report Three_Tier_Oracle_Application2</a>
January 25, 2005 5:10 PM	VNE Server Reports	<a href="#">Network Report Navigator</a>
January 25, 2005 5:07 PM	VNE Server Reports	<a href="#">Network Report Navigator</a>
January 25, 2005 5:01 PM	VNE Server Reports	<a href="#">Network Report Navigator</a>

## View by Products

Selecting the menu choice “View by Products” takes you to an alternate home page organized by OPNET product, rather than by report set. From this menu, shown in Figure 2-10, you can select

- All Reports—Displays all reports for this application. From within the complete listing of reports, you can choose
  - Manage Listed Reports—This option takes you to the same screen as the “Manage Reports” option, below.
  - Detailed Listing—This takes you to a more detailed view of each report for this product.
- Manage Reports—If you have the “admin” role as part of your privileges, you can organize or delete reports from this category.
- Advanced Search—Takes you to a search screen specific to this category.

**Figure 2-10 View by Products**



**All Reports**

From the View by Products menu, you can click on All Reports for a particular product and see a listing such as the one shown in Figure 2-11. You can open the report by clicking on the report name.

**Figure 2-11 View All Reports**

**List All Reports [SP Sentinel]**

[\[Detailed Listing\]](#) [\[Manage Listed Reports\]](#)

Date/Time	Report set	Report
January 26, 2005 10:13 AM	VNE Server Reports	<a href="#">Network Report Navigator</a>
January 26, 2005 9:52 AM	VNE Server Reports	<a href="#">Network Report Navigator</a>
January 26, 2005 9:39 AM	VNE Server Reports	<a href="#">Network Report Navigator</a>
January 26, 2005 9:24 AM	VNE Server Reports	<a href="#">Network Report Navigator</a>
January 26, 2005 9:23 AM	VNE Server Reports	<a href="#">Network Report Navigator</a>
January 26, 2005 9:08 AM	VNE Server Reports	<a href="#">Network Report Navigator</a>
January 25, 2005 5:10 PM	VNE Server Reports	<a href="#">Network Report Navigator</a>
January 25, 2005 5:07 PM	VNE Server Reports	<a href="#">Network Report Navigator</a>
January 25, 2005 5:01 PM	VNE Server Reports	<a href="#">Network Report Navigator</a>
January 25, 2005 3:55 PM	VNE Server Reports	<a href="#">Network Report Navigator</a>
January 25, 2005 3:42 PM	VNE Server Reports	<a href="#">Network Report Navigator</a>

## Manage Reports

If you are an administrator, you can click on Manage Reports for a particular product in the View by Products menu and see a listing such as the one shown in Figure 2-12. This screen allows you to delete or configure a different aging for a particular report. You can also go directly to a report by clicking on the report name.

**Note**—The Manage Reports option allows you to specify aging parameters for a particular report. This is in contrast to the global report maintenance procedures discussed in Report Server Maintenance on page RS-1-8.

**Figure 2-12** Manage Reports

The screenshot shows a web interface titled "Manage Reports [SP Sentinel]". It contains a table with the following columns: "Date/Time", "Report set", "Report", "Delete", and "Update Deletion Date". The "Delete" column has checkboxes, and the "Update Deletion Date" column has a date selector (month, day, year). Red arrows point to the "Delete" and "Update Deletion Date" buttons in the header row. Text callouts explain that clicking a checkbox in the header row selects all reports, and that the "Delete" button is used to perform deletion after selections. The "Update Deletion Date" button is used to perform an aging update.

Date/Time	Report set	Report	Delete	Update Deletion Date
January 26, 2005 10:13 AM	VNE Server Reports	<a href="#">Network Report Navigator</a>	<input type="checkbox"/>	month day year 02 15 2006
January 26, 2005 9:52 AM	VNE Server Reports	<a href="#">Network Report Navigator</a>	<input type="checkbox"/>	month day year 02 15 2006
January 26, 2005 9:39 AM	VNE Server Reports	<a href="#">Network Report Navigator</a>	<input type="checkbox"/>	month day year 02 15 2006
January 26, 2005 9:24 AM	VNE Server Reports	<a href="#">Network Report Navigator</a>	<input type="checkbox"/>	month day year 02 15 2006
January 26, 2005 9:23 AM	VNE Server Reports	<a href="#">Network Report Navigator</a>	<input type="checkbox"/>	month day year 02 15 2006
January 26, 2005 9:08 AM	VNE Server Reports	<a href="#">Network Report Navigator</a>	<input type="checkbox"/>	month day year 02 15 2006

Press Delete, after making your selections, to perform the deletion.

Press Update Deletion Date to perform aging update.

Clicking one of the checkboxes in the heading row selects all.

The management operations are performed by pressing one of the buttons:

- **Delete**—You can select all reports in a column by selecting the checkbox in the heading row, or you may select reports individually. You must then click the Delete button to perform the deletion.
- **Update Deletion Date**—You can update the aging date on the selected reports by clicking on the Update Deletion Date button.

### Advanced Search

From the View by Products menu, you can click on Advanced Search for a particular product and see a search dialog such as the one shown in Figure 2-13. You can specify search parameters that are applied to the reports within the selected report set, or product, and then choose to include all reports or select from available reports.

**Figure 2-13 Advanced Search by Product**

The screenshot shows the 'SP Sentinel Report Sets - Advanced Search Wizard' interface. At the top, the report set title is 'VNE Server Reports'. Below this, there are two main sections: 'Report set title: VNE Server Reports' and 'Available Reports'. In the first section, there are radio buttons for 'from:' and 'to:' with dropdown menus for month, day, year, and hour:minute. There are also radio buttons for 'last 0 days', 'yesterday', and 'today'. To the right, there is a 'project' dropdown menu set to 'contains' and an empty text input field. In the 'Available Reports' section, there is a checkbox for 'Network Report Navigator' and another 'project' dropdown menu set to 'contains' with a dropdown list open showing options: 'contains', 'any of', 'equals', and 'matches'. A 'Save search as' text input field is located below the 'Available Reports' section. At the bottom left, there is a 'Search' button. At the bottom right, there is a checkbox labeled 'include all reports'.

## Working with Sub-Folders

With this release of Report Server, you can use sub-folders for storage of your reports and filters to control the reports that are in each folder and sub-folder. The contents of the folders and sub-folders are shortcuts to the actual reports, so you cannot inadvertently delete a report by editing sub-folders.

To edit or create a sub-folder, click on Edit Sub-Folders. From this sub-folder you can

- Delete custom sub-folders—Select the checkbox in the heading row to delete all selectable sub-folders in the column. This does not delete any reports.

**Note**—You cannot delete the default folders that come with Report Server, but you can choose to hide them.

- Clear reports from sub-folders—This does not delete the reports from the Report Server, rather it removes the reports from the selected sub-folder(s).
- Apply filters to sub-folders—This applies or reapplies the conditions of the filter associated with the selected sub-folder(s).
- Hide or Show sub-folder in Sub-Folders list—This option is a toggle that allows you to control the sub-folders visible in the Sub-Folders list.

**Figure 2-14 Edit Sub-Folders**

Perform delete operation—deletes sub-folder.

Perform clear operation—removes reports from folder.

Perform Apply Filters operation.

Toggle Hide/Show folder in Folders list.

Use this checkbox to select all available in column.

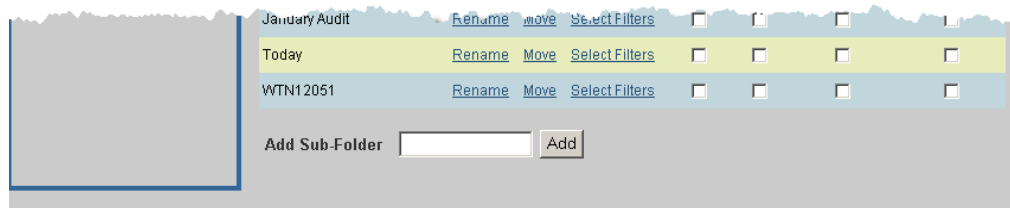
Sub-Folder Name	Actions
	Delete Clear Apply Filters Hide/Show
ACE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Failure Analysis	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Flow Analysis	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
NetDoctor	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Network Difference	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Scenario Web Report	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Security	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
VNE Server	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

To add a new sub-folder, perform Procedure 2-4.

---

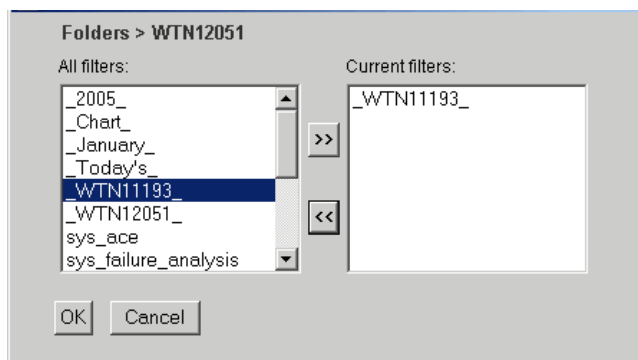
#### Procedure 2-4 Create a Sub-Folder

- 1 Open Report Server to the home page, if it is not already open.
- 2 Click on the folder under which you want to create a sub-folder.
- 3 Click on Edit Sub-Folders.
- 4 Add a sub-folder.
  - 4.1 Scroll to the bottom of the sub-folders list.
  - 4.2 Enter a sub-folder name in the space provided.
  - 4.3 Click the Add button to create the new sub-folder.
    - ➔ The new sub-folder appears in the list.



- 5 Associate a filter to the sub-folder.
  - 5.1 Click on Select Filters next to the name of the sub-folder to which you wish to apply the filter.
    - ➔ The Edit Folder Filter dialog box opens.
  - 5.2 Choose a filter from the left window that you wish to apply to the sub-folder.
 

**Note**—If you want to define or edit a filter, see Procedure 2-5.
  - 5.3 Click the double-arrows pointing right to add a filter. You can select more than one filter.



- 5.4 To deselect a filter, choose a filter in the right window and click the double-arrows pointing left.

- 5.5 Click OK when finished or Cancel to exit the dialog box without making changes.

➔ You are returned to the Edit Sub-Folders screen.

### End of Procedure 2-4

**Note**—When you make any change to a folder—add, edit, move—you must click on Refresh to see the changes. You may also logout and login again to see the changes.

If you wish to edit or create a filter, follow Procedure 2-5.

### Procedure 2-5 Define Filters

- 1 Navigate to Settings > Filter Definition.
- 2 Select Add New Filter (default), or select an existing filter from the pull-down menu.
  - 2.1 Enter a filter name, if adding a new filter.

- 2.2 Select a filter that is already defined in Pre-Fill By, if you wish to pre-fill the parameters of this filter with those of an existing filter. Otherwise, leave the default entry of “No Pre-Fill”.
- 2.3 Select the applications to which this filter applies.
- 2.4 Select the date/time range to which this filter applies, if applicable.

**Absolute time values**—If you set an absolute time range for your filter, the reports in the sub-folder to which the filter is applied will contain all reports meeting the time range and other specified filter values.

**Relative time values**—Once a report is in a sub-folder, it stays there until you clear it. If you select a relative time value (last *n* days, yesterday, or today) in a filter, the sub-folder to which this filter is applied will continue to accept reports meeting the criteria for each successive day. To limit which reports are contained in the sub-folder, **Clear** the sub-folder and **Apply Filter** again. See Figure 2-14 for details on these options.

**2.5** Select Application, Report set, and Report attributes, as desired.

**3** Click the Save button when finished.

➔ The filter is now selectable for sub-folders.

**Note**—Once a report is filtered and placed in a sub-folder, it remains there until a user clears the sub-folder, a user deletes the sub-folder, or the report is removed due to the periodical aging process. If the list of the reports in a sub-folder is stale, simply clear the sub-folder and apply the filter again.

**End of Procedure 2-5**

---

## Preferences

The following preferences for using the Report Server are available in Sentinel.

### **report\_server\_name**

Specifies a report server to which reports should be sent.

<b>Type</b>	string
<b>Default Value</b>	""

### **report\_server\_password**

Specifies a password for connecting to the report server. This preference is stored in encrypted format.

<b>Type</b>	password
<b>Default Value</b>	""

### **report\_server\_port**

Specifies the port number on which the report server is listening.

<b>Type</b>	integer
<b>Default Value</b>	9090

### **report\_server\_timeout**

Specifies the time (in seconds) that Sentinel will wait for the Report Server to respond before giving up.

<b>Type</b>	integer
<b>Default Value</b>	10

### **report\_server\_username**

Specifies a user name for connecting to the report server.

<b>Type</b>	string
<b>Default Value</b>	""

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