

WebFocus

Using WebFOCUS Enterprise Usage Monitor (EUM) Release 8.2 Version 01M

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Contents

Preface	7
Conventions	7
Related Publications	
Customer Support	
Information You Should Have	9
User Feedback	10
Information Builders Consulting and Training	10
1. Introducing WebFOCUS Enterprise Usage Monitor	11
Enterprise Usage Monitor Overview	11
2. Installation and Configuration	15
Installing WebFOCUS Business User Edition	
Importing the Change Management Package for Windows	16
Configuring EUM on the Client for Windows	
Getting Started Page	17
Enabling Logging on the WebFOCUS Client Application Server	
Configuring Resource Management Reports	20
Autoprompt Parameter Prompting	21
Configuring EUM on the Reporting Server for Windows	22
Copying Resource Management Configuration Files to EUM	22
Configuring EUM to Use the Resource Management Metadata Files	25
Configuring Access to the Resource Management Log File (RMLDATA.LOG)	25
Configuring Access to RMLDB	28
Granting Access to Server Roles to Read Data Outside of Installation Directories	29
Configuring Access to the Mid-Tier Log File	31
Importing the Change Management Package for Linux	32
Configuring EUM on the Client for Linux	
Getting Started Page	33
Enabling Logging on the WebFOCUS Client Application Server	35
Configuring Resource Management Reports	36
Autoprompt Parameter Prompting	37
Configuring EUM on the Reporting Server for Linux	37

Copying Resource Management Configuration Files to EUM	
Configuring EUM to Use the Resource Management Metadata Files	40
Configuring Access to the Resource Management Log File (RMLDATA.LOG)	41
Configuring Access to RMLDB	44
Granting Access to Server Roles to Read Data Outside of Installation Director	ies 45
Configuring Access to the Mid-Tier Log File	47
3. Navigating the Enterprise Usage Monitor Environment	49
Navigating the Enterprise Usage Monitor Environment	49
Navigating the Enterprise Usage Monitor Portal	49
Getting Started Page	50
Home Page	
Menu Bar	51
Resources Tree	53
Node Shortcut Menu Options	53
Default Domains	54
Quick Links	
Real Time RMLDATA Static and Dynamic Pages	
4. Understanding Resource Management Reports	61
Running Resource Analyzer Reports	61
Available Resource Analyzer Reports	63
Monitored Sessions	64
Monitored Commands	64
Data Sources Never Used	65
Procedures Never Used	65
Users Report by Frequency of Use	66
Users Report by Resources Used	67
Users Report by Historical Use	68
Users Report by Top N	69
Procedures Report by Frequency of Use	70
Procedures Report by Resources Used	71
Procedures Report by Historical Use	72
Propoduros Poport by Top N	

Contents

Data Sources Report by Frequency of Use	74
Data Sources Report by Resources Used	75
Data Sources Report by Historical Use	77
Data Sources Report by Top N	
Errors and Messages	79
Procedure with Errors	80
Domain Usage Report	81
Change Impact for Column Report	82
Procedure Benchmarks Report	
Excessive Resources Report	
Long-running Requests Report	
Large Volume Requests Report	86
Dormant Data Report	
Excessive Joins Report	88
Repeated Aggregations Report	90
Optimization	
Candidates for Column Index Report	
Bandwidth by Procedure Report	93
Resources by Connection	
Cumulative Hourly Use and Peak Transaction/Resource Periods Reports	95
Query Volume vs. Resource Utilization Report.	
5. Working With Alerts	
Components of an Alert	
Edit an Existing Alert	
Schedule an Alert	101

Contents

This content describes how to install and configure WebFOCUS Enterprise Usage Monitor (EUM) in a Windows or Linux environment. It is intended for administrators or developers who typically configure and monitor usage throughout their WebFOCUS environment.

How This Manual Is Organized

This manual includes the following chapters:

	Chapter/Appendix	Contents
1	Introducing WebFOCUS Enterprise Usage Monitor	Introduces WebFOCUS Enterprise Usage Monitor (EUM).
2	Installation and Configuration	Describes the installation and configuration steps for WebFOCUS Enterprise Usage Monitor (EUM) Release 8.2.01M.
3	Navigating the Enterprise Usage Monitor Environment	Describes how to navigate the Enterprise Usage Monitor (EUM) environment.
4	Understanding Resource Management Reports	Describes the Resource Management reports that are available in the Enterprise Usage Monitor (EUM).
5	Working With Alerts	Describes the Alert function that you can use with the EUM. Explains how to view, schedule, and edit the default alerts.

Conventions

The following table describes the conventions that are used in this manual.

Convention	Description
THIS TYPEFACE	Denotes syntax that you must type exactly as shown.
or	
this typeface	
this typeface	Represents a placeholder (or variable) in syntax for a value that you or the system must supply.

Convention	Description
<u>underscore</u>	Indicates a default setting.
this typeface	Represents a placeholder (or variable), a cross-reference, or an important term. It may also indicate a button, menu item, or dialog box option that you can click or select.
Key + Key	Indicates keys that you must press simultaneously.
{ }	Indicates two or three choices. Type one of them, not the braces.
[]	Indicates a group of optional parameters. None are required, but you may select one of them. Type only the parameter in the brackets, not the brackets.
	Separates mutually exclusive choices in syntax. Type one of them, not the symbol.
	Indicates that you can enter a parameter multiple times. Type only the parameter, not the ellipsis ().
· ·	Indicates that there are (or could be) intervening or additional commands.

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To learn about the full range of available support services, ask your Information Builders representative about InfoResponse Online, or call (800) 969-INFO.

Information You Should Have

To help our consultants answer your questions effectively, be prepared to provide the following information when you call:

- □ Your six-digit site code (*xxxx.xx*).
- □ Your WebFOCUS configuration:
 - □ The front-end software that you are using, including vendor and release.
 - □ The communications protocol (for example, TCP/IP or HLLAPI), including vendor and release.
 - □ The software release.
 - ❑ Your server version and release. You can find this information using the Version option in the Web Console.
- ❑ The stored procedure (preferably with line numbers) or SQL statements being used in server access.
- □ The Master File and Access File.
- □ The exact nature of the problem:
 - Are the results or the format incorrect? Are the text or calculations missing or misplaced?

- Provide the error message and return code, if applicable.
- □ Is this related to any other problem?
- ❑ Has the procedure or query ever worked in its present form? Has it been changed recently? How often does the problem occur?
- □ What release of the operating system are you using? Has it, your security system, communications protocol, or front-end software changed?
- □ Is this problem reproducible? If so, how?
- Have you tried to reproduce your problem in the simplest form possible? For example, if you are having problems joining two data sources, have you tried executing a query containing just the code to access the data source?
- Do you have a trace file?
- ❑ How is the problem affecting your business? Is it halting development or production? Do you just have questions about functionality or documentation?

User Feedback

In an effort to produce effective documentation, the Technical Content Management staff welcomes your opinions regarding this document. You can contact us through our website, *http://documentation.informationbuilders.com/connections.asp*.

Thank you, in advance, for your comments.

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Chapter

Introducing WebFOCUS Enterprise Usage Monitor

This topic introduces the WebFOCUS Enterprise Usage Monitor and its main features.

In this chapter:

Enterprise Usage Monitor Overview

Enterprise Usage Monitor Overview

WebFOCUS Enterprise Usage Monitor (EUM) is a tool that provides a real-time, 360-degree view of your WebFOCUS deployment and all associated enterprise information assets, including the reporting server, database server, and mid-tier application, as well as your users. The EUM application is based on WebFOCUS Business User Edition and requires Resource Analyzer to be configured. It extends and enhances resource tracking and management capabilities by allowing you to analyze and visualize vital resource management metrics across multiple WebFOCUS instances, such as frequently run reports, response times, and the number of reports generated by time of day. With this wealth of information, EUM allows you to achieve a deep understanding of user behaviors, resource consumption, and other factors that impact performance.

With EUM you can do the following:

- Usualize vital resource management metrics.
- Access detailed data about asset utilization and performance issues.
- □ Instantly notify stakeholders when metrics exceed thresholds.
- Analyze all aspects of consumption activity and query traffic.

The EUM portal, which is shown in the following image, is a browser-based application that displays important resource management metrics in interactive visualizations, charts, and graphs that you can use to view key metrics and drill down to more detailed data.



The EUM portal is based on a standard Business User Edition (BUE) portal and allows you to perform the same tasks that you can perform with BUE. However, in addition to the BUE functionality, you also gain access to pre-developed resource management reports, dashboards, and visualizations that are included in your EUM package. You can use InfoAssist +, a powerful thin-client analytics authoring tool, to create and share new resource management content and to generate customized versions of the default content that is available to you.

Another important EUM feature is the Alert Wizard. You can use the Alert Wizard to create alerts to recognize when key metrics, such as average response time, fall below a certain threshold and instantly notify those who can rectify the problem.

Other EUM features include:

New metadata definitions that let users analyze and drill down to detailed resource management data, to rapidly identify performance and usage issues at the lowest level.

- □ The ability to offload CPU cycles from production systems to the EUM environment, conserving valuable resources.
- □ A consolidated enterprise resource management console that enables you to run serverbased Resource Analyzer reports from EUM.



Installation and Configuration

This content describes the installation and configuration steps for WebFOCUS Enterprise Usage Monitor (EUM) Release 8.2.01M.

WebFOCUS Enterprise Usage Monitor (EUM) requires the following steps:

- □ Installing WebFOCUS Business User Edition (BUE) Release 8.2.01M GA.
- □ Importing the EUM content into the repository, using Change Management.
- □ Configuring EUM Client and Reporting Server settings.

Note: You must have an existing installation of Resource Management to configure EUM.

In this chapter:

- Installing WebFOCUS Business User Edition
- Importing the Change Management Package for Windows
- Configuring EUM on the Client for Windows
- Configuring EUM on the Reporting Server for Windows
- Importing the Change Management Package for Linux
- Configuring EUM on the Client for Linux
- Configuring EUM on the Reporting Server for Linux

Installing WebFOCUS Business User Edition

WebFOCUS Enterprise Usage Monitor (EUM) requires the installation of WebFOCUS Business User Edition (BUE).

Procedure: How to Install WebFOCUS Business User Edition

- 1. Download the WebFOCUS Enterprise Usage Monitor (EUM) Release 8.2.01M GA software for your platform (Windows or Linux) from the download site. The GA release has a gen date of May 5, 2017.
- Install the BUE Release 8.2.01M GA for your platform (Windows or Linux) as described in the *Installation* topic, under WebFOCUS Business User Edition 8.2.01M, in the WebFOCUS BUE Technical Library, Release 8.2.01M. You will have to configure an email server for ReportCaster, as it is required for the Enterprise Usage Monitor Alerts feature.

- 3. Type a WebFOCUS Enterprise Usage Monitor license key, which is a 10-user WebFOCUS BUE license.
- 4. When the installation completes, the Sign In dialog box displays.
- 5. Confirm you can sign in to BUE using the manager user ID.
- 6. Depending on your platform, proceed to *Importing the Change Management Package for Windows* on page 16 or *Importing the Change Management Package for Linux* on page 32.

Importing the Change Management Package for Windows

Using Change Management, you can import EUM content into the repository.

Procedure: How to Import the Change Management Package

- 1. Sign in to the machine where BUE is installed, with the same user ID used for the installation.
- Copy the CM package, WEUM_8201M*.zip, from the download site to the BUE Change Management import directory, *drive*:\ibi\WebFOCUS_BUE82\WebFOCUS\cm\import, where *drive* is the drive on which WebFOCUS BUE is installed.
- 3. From the Command prompt, change your current directory to the following path by issuing the following command:

cd /d *drive*:\ibi\WebFOCUS_BUE82\WebFOCUS\utilities\cm

where:

drive

Is the drive where WebFOCUS BUE is installed.

4. Run the Change Management cm_import script using the following command.

Note: Do not use the Change Management utility available from the BUE Resource tree to import this change management, as it will not support the necessary rules.

```
cm_import.bat USERNAME=manager PASSWORD=manager_password
IMPORTFROM=drive:\ibi\WebFOCUS_BUE82\WebFOCUS\cm\import
\WEUM_8201M_20170531_163246_manager.zip
resOverwrite=TRUE importRoles=2 importGroups=2 importUsers=0
importRules=TRUE
```

where:

manager_password

Is the manager user ID password set during the BUE installation procedure.

drive

Is the drive where WebFOCUS BUE is installed.

5. Navigate back to the browser where you signed in to BUE and click the browser refresh button to see the updated EUM portal and repository content.

Note: If the browser is closed, type the following to return to the browser:

http://machinename:26000/ibi_apps

where:

machinename

Is the name of the machine where BUE is running.

Configuring EUM on the Client for Windows

This section covers the steps to configure EUM on the Client.

Getting Started Page

After you sign in to EUM using the manager user ID, the Getting Started page displays. This section describes the steps required to customize the page for EUM.

Note: If you customize the Getting Started page, the Upload Data and Connect to Data pane does not display. You can access these wizards using the options on the Resources tree.

Procedure: How to Customize the Getting Started Page for EUM

1. Rename the file:

drive:\ibi\WebFOCUS_BUE82\WebFOCUS\webapps\webfocus\portalApps\resources
\markup\gettingStartedPage.jsp

to:

gettingStartedPage.original.jsp

where:

drive

Is the drive where WebFOCUS BUE is installed.

2. Copy the file:

drive:\ibi\WebFOCUS_BUE82\data\apps\weum\gettingstartedpage.jsp

to:

drive:\ibi\WebFOCUS_BUE82\WebFOCUS\webapps\webfocus\portalApps\resources
\markup\gettingStartedPage.jsp

where:

drive

Is the drive where WebFOCUS BUE is installed.

Note: When you copy the new gettingstartedpage.jsp file, you must rename it to include uppercase S and P letters, so that the file name is gettingStartedPage.jsp.

3. Copy and replace the following files:

drive:\ibi\WebFOCUS_BUE82\data\apps\weum\basiciavideoplay.jsp

drive:\ibi\WebFOCUS_BUE82\data\apps\weum\basicvideoplay.jsp

to:

drive:\ibi\WebFOCUS_BUE82\WebFOCUS\webapps\webfocus\portalApps
\BasiclAVideoPlay.jsp

drive:\ibi\WebFOCUS_BUE82\WebFOCUS\webapps\webfocus\portalApps
\BasicVideoPlay.jsp

where:

drive

Is the drive where WebFOCUS BUE is installed.

Note: When you copy the basiciavideoplay.jsp and basicvideoplay.jsp files, you must rename them to include uppercase B, I, A, V, and P letters, so that the file names are BasiclAVideoPlay.jsp and BasicVideoPlay.jsp, respectively.

4. Make a backup of the file by renaming:

drive:\ibi\WebFOCUS_BUE82\WebFOCUS\webapps\webfocus\WEB-INF\lib
\com_ibi_intl.jar

to:

com_ibi_intl.backup_jar

Note: Do not add the .jar extension to the renamed file.

where:

drive

Is the drive where WebFOCUS BUE is installed.

- 5. On the Rename dialog box, click Yes.
- 6. Replace the jar file by copying:

drive:\ibi\WebFOCUS_BUE82\data\apps\weum\com_ibi_intl.jar

to:

drive:\ibi\WebFOCUS_BUE82\WebFOCUS\webapps\webfocus\WEB-INF\lib

where:

drive

Is the drive where WebFOCUS BUE is installed.

Enabling Logging on the WebFOCUS Client Application Server

This section describes how to enable logging on the WebFOCUS Client application server.

Procedure: How to Enable Logging on the WebFOCUS Client Application Server

1. Navigate to the Tomcat directory for your WebFOCUS release. For example:

C:\ibi\tomcat\bin

2. Depending on the WebFOCUS release, run the Tomcat program, for example, tomcat8WFw.exe, as administrator.

The Apache Tomcat for WebFOCUS Properties dialog box opens.

- 3. Click the Java tab.
- 4. Type the following two lines in the Java Options section, as shown in the following image, where the second line is a blank line.

-DIBI_Request_Logging=ON <blank line=""></blank>
by Apache Tomcat 8.0.36 for WebFOCUS Properties 🛛 🗙
General Log On Logging Java Startup Shutdown
Use default Java Virtual Machine:
C:\ibi\tomcat\jre\bin\server\jvm.dll
Java Classpath:
$\label{eq:c:ibi} C: ibi \ bootstrap.jar; C: ibi \ biotstrap.jar; C: ibi \ bi \ bi \ bi \ bi \ bi \ bi \ bi$
Java Options:
-Djava.endorsed.dirs=C:\jbi\tomcat\endorsed
-DIBI_Request_Logging=ON
×
Initial memory pool: 1060 MB
Maximum memory pool: 2121 MB
Thread stack size: KB
OK Cancel Apply

5. Click OK.

Configuring Resource Management Reports

The Resource Management (RM) reports are accessible through the EUM portal. This section covers the steps to configure this feature.

Procedure: How to Configure Resource Management Reports

1. Copy the file:

drive:\ibi\WebFOCUS_BUE82\data\apps\weum\ibi_html.xml

to:

 $\textit{drive:\bi}\end{tabular} bill webFOCUS_BUE82\tomcat\conf\Catalina\localhost$

where:

drive

Is the drive where WebFOCUS BUE is installed.

2. Edit the ibi_html.xml file, as appropriate, as follows:

```
<Context docBase="drive:\ibi\WebFOCUS_BUE82\WebFOCUS\ibi_html" path="/ibi_html">
```

where:

drive

Is the drive where WebFOCUS BUE is installed.

- 3. From the Start menu, navigate to the WebFOCUS Business User Edition shortcut, under the Information Builders program group, and click *Stop WebFOCUS_BUE Services* to stop the WEBFOCUS BUE application server.
- 4. From the Start menu, navigate to the WebFOCUS Business User Edition shortcut, under the Information Builders program group, and click *Start WebFOCUS_BUE Services* to start the WebFOCUS BUE application server.

Autoprompt Parameter Prompting

In order to support the Resource Management reports, the Autoprompt Parameter Prompting setting must be Off.

Procedure: How to Set Autoprompt Parameter Prompting

- 1. Sign in to BUE using the manager user ID or navigate back to the browser where you signed in to BUE.
- 2. On the menu bar, click Administration, and then select Administration Console.
- 3. On the Configuration panel, click Parameter Prompting.
- 4. From the Managed Reporting drop-down list, select Off, as shown in the following image.

?	Managed Reporting	Always Prompt 🗸 👻
?	Managed Reporting when Prompt Parameters Property Unset	Off Run with Default Values
?	Self Service	Always Prompt
?	Default Autoprompt Template	Responsive
?	Null Behavior	_FOC_NULL

- 5. Click Save, and then click OK.
- 6. Click *Close* to close the Administration Console.

Configuring EUM on the Reporting Server for Windows

This section covers the EUM configuration steps required on the Reporting Server.

Copying Resource Management Configuration Files to EUM

It is necessary to copy the Resource Management configuration files from the WebFOCUS environment where Resource Management is configured to the EUM environment.

Procedure: How to Copy the RMLDB.FEX and RMLDATA.FEX Files

On the machine where Resource Management is configured, copy the following files.

For Release 7.7 Version 07 and Release 7.7 Version 06:

drive1:\ibi\srvxx\server\catalog\rm\rmldb.fex

drive1:\ibi\srvxx\server\catalog\rm\rmldata.fex

to:

drive2:\ibi\WebFOCUS_BUE82\srv\wfs\catalog\rm\rmldb.fex

drive2:\ibi\WebFOCUS_BUE82\srv\wfs\catalog\rm\rmldata.fex

For Release 7.7 Version 05M:

drive1:\ibi\srvxx\server\catalog\rmldb.fex

to:

drive2:\ibi\WebFOCUS_BUE82\srv\wfs\catalog\rm\rmldb.fex

where:

drive1

Is the drive where Resource Management is configured.

xx

Is the Reporting Server release.

Note: The type of server you install determines the default names for the program folder and product directory. If you install the WebFOCUS Reporting Server Release 8.2, then the default names will indicate 82. For example:

C:\ibi\srv82

If you install DataMigrator Server Release 7.7 Version 07, then the default names will indicate 77. For example:

C:\ibi\srv77

server

Depends on the license key. Possible values are:

For a 100 Full Function Server license key, the value is ffs.

For a 200 WebFOCUS Server license key, the value is wfs.

For a 300 DataMigrator Server license key, the value is dm.

drive2

Is the drive where WebFOCUS BUE is installed.

Procedure: How to Copy the RMPROF.FEX File (Release 8.2 or 7.7.07 Reporting Servers)

On the machine where Resource Management is configured, copy the following file:

drive1:\ibi\srvxx\server\catalog\rm\rmprof.fex

to:

drive2:\ibi\WebFOCUS_BUE82\srv\wfs\catalog\rm\rmprof.fex

where:

drive1

Is the drive where Resource Management is configured.

xx

Is the Reporting Server release.

Note: The type of server you install determines the default names for the program folder and product directory. If you install the WebFOCUS Reporting Server Release 8.2, then the default names will indicate 82. For example:

C:\ibi\srv82

If you install DataMigrator Server Release 7.7 Version 07, then the default names will indicate 77. For example:

C:\ibi\srv77

server

Depends on the license key. Possible values are:

For a 100 Full Function Server license key, the value is ffs.

For a 200 WebFOCUS Server license key, the value is wfs.

For a 300 DataMigrator Server license key, the value is dm.

drive2

Is the drive where WebFOCUS BUE is installed.

Procedure: How to Copy RMPROF.PRF (Release 8.0 or 7.7.05 and 8.1 or 7.7.06 Reporting Servers)

On the machine where Resource Management is configured, copy the following file:

drive1:\ibi\srvxx\server\etc\rmprof.prf

to:

drive2:\ibi\WebFOCUS_BUE82\srv\catalog\rm\rmprof.fex

where:

drive1

Is the drive where Resource Management is configured.

xx

Is the Reporting Server release.

Note: The type of server you install determines the default names for the program folder and product directory. If you install the WebFOCUS Reporting Server Release 8.2, then the default names will indicate 82. For example:

C:\ibi\srv82

If you install DataMigrator Server Release 7.7 Version 07, then the default names will indicate 77. For example:

C:\ibi\srv77

server

Depends on the license key. Possible values are:

For a 100 Full Function Server license key, the value is ffs.

For a 200 WebFOCUS Server license key, the value is wfs.

For a 300 DataMigrator Server license key, the value is dm.

drive2

Is the drive where WebFOCUS BUE is installed.

Configuring EUM to Use the Resource Management Metadata Files

EUM is based on Release 8.2.01M. However, it can support Resource Management files from any 8.x release. This section describes how to use the correct version of the metadata files.

Procedure: How to Use the Correct Resource Management Files

On the machine where WebFOCUS Business User Edition and Enterprise Usage Monitor are configured, copy the correct version of the files into the baseapp application directory.

1. Copy the files:

drive:\ibi\WebFOCUS_BUE82\data\apps\baseapp\weum\rmldataNN.mas

drive:\ibi\WebFOCUS_BUE82\data\apps\baseapp\weum\rmldataNN.acx

drive:\ibi\WebFOCUS_BUE82\data\apps\baseapp\weum\rmldbNN.mas

drive:\ibi\WebFOCUS_BUE82\data\apps\baseapp\weum\rmldbNN.acx

to each of the following directories:

drive:\ibi\WebFOCUS_BUE82\data\apps\baseapp\

drive:\ibi\WebFOCUS_BUE82\srv\wfs\catalog\rm\

where:

drive

Is the drive where WebFOCUS BUE is installed.

NN

Is the Reporting Server version where Resource Management is configured.

2. Depending on your server release, rename the corresponding rmldata*NN* files to rmldata.mas and rmldata.acx in both locations. For example, if you install the WebFOCUS Reporting Server Release 8.2, rename rmldata82.mas to rmldata.mas, rmldata82.acx to rmldata.acx, rmldb82.mas to rmldb.mas, and rmldb82.acx to rmldb.acx.

Configuring Access to the Resource Management Log File (RMLDATA.LOG)

Access to the Resource Management log files is defined through a FILEDEF command that is defined in the Reporting Server profile, edasprof.prf.

Procedure: How to Define a FILEDEF to Access the RMLDATA.LOG File

- 1. Sign in to BUE as manager or navigate back to the browser where you signed in to BUE.
- 2. On the menu bar, click Administration, and then select Reporting Server Console.
- 3. Click the Workspace tab.
- 4. Navigate to the Configuration Files folder, right-click Server Profile edasprof.prf, and select *Edit*, as shown in the following image.

Ар	plications	Adapters	Resource M	anagement	Workspace	2
		-	0	-	<u>~</u>	
Stop	Restart	Quiesce/Enable	e Event Routing	LOCALE	Login Message	
	Opera	tions				
					- 尚 🗘 🤉	¢
🕶 Wo	rkspace					
-	Data Ser	/ices				
	🥥 DI	EFAULT				
	🧼 W	C_DEFAULT				
	🥥 SC	CHED_DEFAUL	Т			
	i 🖓 D	FM_DEFAULT				
•	Java Serv	rices				
•	Special S	ervices and Lis	teners			
•	Cluster M	lanager				
-	Configura	ation Files				
	🏭 W	orkspace - eda	aserve.cfg			
	🥼 Ad	dministration -	admin.cfg			
	🦉 Co	ommunication	- odin.cfg			
	JE Ve	ersion - versior	n.cfg			
	Se Se	erver Profile - e	edasprof.prf	S) Edit	7	
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	∦E Ηγ SE ιι	/perstage PG -	pg_hba.con	f c		
	∦E Ηγ	/perstage PG -	pg_ident.co	nf		
	Ø≣ H) SE)	/perstage PG -	infobright.c	nr		
	ð≣ Hy	/perstage PG -	Drighthouse	e.ini		
	 User/ Misser 	Group Profiles				
	 Misce 	Traces				
× 1	LUUS and	TIACES				

5. Add a FILEDEF command at the end of the server profile, for example:

FILEDEF baseapp/rmldata DISK drive:\srvxx\wfs/rmldata.log

Note:

If you are using a network drive, use the following FILEDEF command:

FILEDEF baseapp/rmldata DISK \\machinename\directory/rmldata.log

□ If you have multiple rmldata files, use the CONCAT command. For example:

```
FILEDEF baseapp/rmldata DISK \\machinename\directory/rmldata.log
FILEDEF baseapp/rmldatal DISK \\machinename\directory1/rmldata.log
FILEDEF baseapp/rmldataN DISK \\machinename\directoryN/rmldata.log
FILEDEF baseapp/rmldata CONCAT baseapp/rmldata1 baseapp/rmldataN
```

where:

drive

Is the location of your rmldata.log file.

xx

Is the Reporting Server release.

Note: The type of server you install determines the default names for the program folder and product directory. If you install the WebFOCUS Reporting Server Release 8.2, then the default names will indicate 82. For example:

C:\ibi\srv82

If you install DataMigrator Server Release 7.7 Version 07, then the default names will indicate 77. For example:

C:\ibi\srv77

machinename

Is the name of the network machine.

directory1...directoryN

Are the names of the network directories.

rmldata1

Is the first WebFOCUS Resource Management file.

rmldataN

Is the Nth WebFOCUS Resource Management file.

6. Click Save.

Configuring Access to RMLDB

Resource Management historical data is stored in the RMLDB database. This section describes how to configure EUM to access the RMLDB. This configuration may need assistance from your Resource Management administrator.

The Adapter configuration on the WebFOCUS environment where Resource Management is configured needs to be replicated on the EUM environment.

Configure the Adapter to the Resource Management repository. If you have more than one Resource Management repository, each will require a separate installation of EUM.

Procedure: How to Configure the RMLDB Adapter

Gather connection information from the Resource Management server environment.

Note: If you configured the adapter as Trusted, the database administrator must set up a Read Only user ID on the Resource Management repository database. The Resource Management repository database credentials for the Read Only user ID will be used in step 9.

- 1. From the Resource Management Web Console, click the Adapters tab.
- 2. Expand *Configured* to see the list of configured adapters.
- 3. Right-click the adapter and select *Properties*.
- 4. Use this information to replicate this adapter on the EUM server.

Note: It is critical the connection name is identical.

- 5. Sign in to BUE using the manager user ID.
- 6. From the menu bar, click Administration, and then select Reporting Server Console.
- 7. Click the Adapters tab.

8. In the Adapters panel, expand *Available* to find the same adapter being used for the RMLDB database, as shown in the following image.



9. Once you locate the correct adapter, right-click it and select *Configure*. Type the same properties as you have on your Resource Management Reporting Server.

Note: If the RMLDB adapter is Trusted, select *Explicit* from the Security drop-down list and type the user credentials of the Read Only user ID.

10. Click *Test* to verify the connection.

Granting Access to Server Roles to Read Data Outside of Installation Directories

The rmldata.log file to be monitored is typically located outside of the EUM machine. In order for developers and basic users to access the file, it will be necessary to change their file privileges on the EUM Reporting Server.

Procedure: How to Grant Access to Server Roles to Read Data Outside of Installation Directories

- 1. Sign in to BUE using the manager user ID.
- 2. From the menu bar, click Administration, and then select Reporting Server Console.
- 3. On the Reporting Server Console, click the Access Control tab.
- 4. On the Access Control panel, navigate to Roles, and then select Application Administrator.

5. Right-click *modelgrp/Developers* (*Customized*), and then select *Directory/File Privileges*, as shown in the following image.



The Directory/File Privileges pane appears.

6. Select the *Read* option on the first row (*). This will automatically enable developers to have read access to files outside the EUM environment, as shown in the following image.

ustomized								
Directory/File	Read	Write	Execute	List	Status	Inherit Subject	Inherit Directory	Remark
* *					Customized			
✓ C:					Inherited	Group - modelgrp/Developers	*	
✓ ibi					Inherited	Group - modelgrp/Developers	*	
WebFOCUS_BUE82					Inherited	Group - modelgrp/Developers	*	
🕶 data					Inherited	Group - modelgrp/Developers	*	
✓ apps					Customized			APPROOT
baseapp					Customized			
modelapp					Customized			
💙 srv					Inherited	Group - modelgrp/Developers	*	
home			Image: A start and a start		System Default			EDAHOM
profiles					System Default			EDAPRFL
✓ wfs					Inherited	Group - modelgrp/Developers	*	EDACON
bin					System Default			
 catalog 					Inherited	Group - modelgrp/Developers	*	
m					System Default			
🕶 etc	\checkmark				System Default			
edasprof.prf					System Default			

- 7. Click Save and then click OK.
- 8. On the Access Control panel, navigate to Roles, and then select Basic User.
- 9. Right-click modelgrp (Customized), and then select Directory/File Privileges.

The Directory/File Privileges pane appears.

- 10. Select the *Read* option on the first row (*). This will automatically enable basic users to have read access to files outside the EUM environment.
- 11. Click Save and then click OK.

Configuring Access to the Mid-Tier Log File

This section describes the remaining steps to configure EUM to access the mid-tier log file. It may be necessary to redirect the mid-tier log files to a drive that is accessible from the EUM machine.

Procedure: How to Configure Access to the Mid-Tier Log File

- 1. Sign in as the manager user ID.
- 2. On the menu bar, click Administration, and then select Reporting Server Console.
- 3. Click the Applications tab.
- 4. Expand the baseapp application folder.
- 5. Right-click the requestsprof.fex file and select Open.
- 6. Edit the file so the following line contains the location of the WebFOCUS environment requests.*.log files, as follows:

```
-SET &&DSN = 'drive:\ibi\WebFOCUSnn\logs\' | 'requests.' | &DT | '.log';
```

where:

drive

Is the drive where the WebFOCUS Client application server is installed.

nn

Is the WebFOCUS release.

7. Click Save.

At this point, EUM is fully installed and configured. The dashboard pages in the EUM portal should be populated with real time (RMLDATA.LOG) and historical (RMLDB) data, as shown in the following image.

WebFOCUS Manager Tools Administration Resources Help Sign Out										
Home Getting Started Real Time RMLDATA State: Real Time RMLDATA Dynamic +										
Dashboa	ard One 👻 Dashboard	Two 👻 Dashboar	rd Three 👻 MidTier 👻							
ctive Us	DBMS	εĽ	USER4 USER5 USER1	USER4		Duration	Server Time	EUM Command start date		
Effe	USER1 0 40 80 Session DB	120 160 MS Tim 🔚	USER2 USER3 0 1 2 3 4 5 6 Effective User I	USER5 BIMNN02538	0.06 0.12 n CPU Time(0 80 160 Session Duration(240 0 40 80 (C Server_Time	120		
				Performance B	y Date					
700 - 525 - 350 - 175 - 0 -				2017/05/13			Session Duration, Session DBMS Tin Session CPU Time Effective User IC Server_Time	4 Scale) (4 Scale) (4 Scale) OUNT		
				Session Start date				<u> </u>		
700				Performance B	y Hour		_	>		
350 - 175 -							EUM User ID COU Session Duration(, Session CPU Time	EUM Command Start Hour 4.4 Scale) Image: A scale (A scale)		
0-			08	Session Start hour	11		O Server_Time			
Effecti	ve User ID 💠 💠 Us	er ID Type COUI	NT 🔶 Session Duration(.4 Scale)	Session CPU Time(.4 Scale)	Session DBMS Time(.4 Scale)	\$server_Time				
USER4	4		7 219.1470	0.1100	119.0450	100.1020				
USER5	i		7 139.2070	0.0790	139.1090	0.0980				
USER1			6 60.2020	0.1080	60.1180	0.0840				
USER2			6 91.1810	0.0620	89.0980	2.0830		<u> </u>		

Importing the Change Management Package for Linux

Using Change Management, you can import EUM content into the repository.

Procedure: How to Import the Change Management Package for Linux

- 1. Sign in to the machine where BUE is installed, with the same user ID used for the installation.
- 2. Copy the CM package, WEUM_8201M*.zip, from the download site to the BUE Change Management import directory:

/install_directory/ibi/WebFOCUS_BUE82/WebFOCUS/cm/import

where:

install_directory

Is the directory where WebFOCUS BUE is installed.

3. From the Command prompt, change your current directory to the following path:

/install_directory/ibi/WebFOCUS_BUE82/WebFOCUS/utilities/cm

where:

install_directory

Is the directory where WebFOCUS BUE is installed.

4. Run the Change Management cm_import script using the following command.

Note: Do not use the Change Management utility available from the BUE Resource tree to import this change management, as it will not support the necessary rules.

```
./cm_import.sh USERNAME=manager PASSWORD=manager_password
IMPORTFROM=/install_directory/ibi/WebFOCUS_BUE82/WebFOCUS/cm/import
/WEUM_8201M_20170531_163246_manager.zip
resOverwrite=TRUE importRoles=2 importGroups=2 importUsers=0
importRules=TRUE
```

where:

manager_password

Is the manager user ID password set during the BUE installation procedure.

install_directory

Is the directory where WebFOCUS BUE is installed.

5. Navigate back to the browser where you signed in to BUE and click the browser refresh button to see the updated EUM portal and repository content.

Note: If the browser is closed, type the following to return to the browser:

http://machinename:26000/ibi_apps

where:

machinename

Is the name of the machine where BUE is running.

Configuring EUM on the Client for Linux

This section covers the steps to configure EUM on the Client.

Getting Started Page

After you sign in to EUM using the manager user ID, the Getting Started page displays. This section describes the steps required to customize the page for EUM.

Note: If you customize the Getting Started page, the Upload Data and Connect to Data pane does not display. You can access these wizards using the options on the Resources tree.

Procedure: How to Customize the Getting Started Page for EUM

1. Rename the file:

/install_directory/ibi/WebFOCUS_BUE82/WebFOCUS/webapps/webfocus/portalApps/ resources/markup/gettingStartedPage.jsp to:

gettingStartedPage.original.jsp

where:

install_directory

Is the directory where WebFOCUS BUE is installed.

2. Copy the file:

cp /install_directory/ibi/WebFOCUS_BUE82/data/apps/weum/gettingstartedpage.jsp

to:

/install_directory/ibi/WebFOCUS_BUE82/WebFOCUS/webapps/webfocus/portalApps/ resources/markup/gettingStartedPage.jsp

where:

install_directory

Is the directory where WebFOCUS BUE is installed.

Note: When you copy the new gettingstartedpage.jsp file, you must rename it to include uppercase S and P letters, so that the file name is gettingStartedPage.jsp.

3. Change the access permissions by issuing the following command:

chmod 775 gettingStartedPage.jsp

4. Copy and replace the following files:

install_directory/ibi/WebFOCUS_BUE82/data/apps/weum/basiciavideoplay.jsp

install_directory/ibi/WebFOCUS_BUE82/data/apps/weum/basicvideoplay.jsp

to:

install_directory/ibi/WebFOCUS_BUE82/WebFOCUS/webapps/webfocus/portalApps/ BasicIAVideoPlay.jsp

install_directory/ibi/WebFOCUS_BUE82/WebFOCUS/webapps/webfocus/portalApps/ BasicVideoPlay.jsp

where:

install_directory

Is the directory where WebFOCUS BUE is installed.

Note: When you copy the basiciavideoplay.jsp and basicvideoplay.jsp files, you must rename them to include uppercase B, I, A, V, and P letters, so that the file names are BasicIAVideoPlay.jsp and BasicVideoPlay.jsp, respectively.

5. Make a backup of the file by renaming:

/install_directory/ibi/WebFOCUS_BUE82/WebFOCUS/webapps/webfocus/WEB-INF/lib/ com_ibi_intl.jar

to:

com_ibi_intl.backup_jar

Note: Do not add the .jar extension to the renamed file.

where:

install_directory

Is the directory where WebFOCUS BUE is installed.

6. Replace the jar file:

cp /install_directory/ibi/WebFOCUS_BUE82/data/apps/weum/com_ibi_intl.jar

to:

/install_directory/ibi/WebFOCUS_BUE82/WebFOCUS/webapps/webfocus/WEB-INF/lib/ com_ibi_intl.jar

where:

install_directory

Is the directory where WebFOCUS BUE is installed.

7. Change the access permissions by issuing the following command:

chmod 775 com_ibi_intl.jar

Enabling Logging on the WebFOCUS Client Application Server

This section describes how to enable logging on the WebFOCUS Client application server.

Procedure: How to Enable Logging on the WebFOCUS Client Application Server

- Navigate to the Tomcat directory for your WebFOCUS release. For example: /ibi/tomcat/bin
- 2. Edit catalina.sh by adding the -DIBI_Request_Logging=ON argument to the JAVA_OPTS definition, as follows:

JAVA_OPTS="-Xms256m -Xms512m -Djava.awt.headless=true -DIBI_Request_Logging=ON"

3. Save the file.

Configuring Resource Management Reports

The Resource Management reports are accessible through the EUM portal. This section covers the steps to configure this feature.

Procedure: How to Configure Resource Management Reports for Linux

1. Copy the file:

/install_directory/ibi/WebFOCUS_BUE82/data/apps/weum/ibi_html.xml

to:

/install_directory/ibi/WebFOCUS_BUE82/tomcat/conf/Catalina/localhost

where:

install_directory

Is the directory where WebFOCUS BUE is installed.

2. Edit the ibi_html.xml file, as appropriate, as follows:

```
<Context docBase="/install_directory/ibi/WebFOCUS_BUE82/WebFOCUS/
ibi_html" path="/ibi_html">
```

where:

install_directory

Is the directory where WebFOCUS BUE is installed.

3. Stop the WebFOCUS BUE Application Server, using the following command:

/install_directory/ibi/WebFOCUS_BUE82/tomcat/bin/shutdown.sh

where:

install_directory

Is the directory where WebFOCUS BUE is installed.

4. Start the WebFOCUS BUE Application Server, using the following command: /install_directory/ibi/WebFOCUS_BUE82/tomcat/bin/startup.sh
where:

install_directory

Is the directory where WebFOCUS BUE is installed.

Autoprompt Parameter Prompting

In order to support the Resource Management reports, the Autoprompt Parameter Prompting setting must be Off.

Procedure: How to Set Autoprompt Parameter Prompting

- 1. Sign in to BUE using the manager user ID or navigate back to the browser where you signed in to BUE.
- 2. On the menu bar, click Administration, and then select Administration Console.
- 3. On the Configuration panel, click Parameter Prompting.
- 4. From the Managed Reporting drop-down list, select Off, as shown in the following image.

P	Parameter Prompting							
()	Managed Reporting	Always Prompt 🗸						
0	Managed Reporting when Prompt Parameters Property Unset	Off Run with Default Values						
0	Self Service	Always Prompt						
()	Default Autoprompt Template	Responsive						
0	Null Behavior	_FOC_NULL 🔻						
		Save Cancel						

- 5. Click Save, and then click OK.
- 6. Click Close to close the Administration Console.

Configuring EUM on the Reporting Server for Linux

This section covers the EUM configuration steps required on the Reporting Server.

Copying Resource Management Configuration Files to EUM

It is necessary to copy the Resource Management configuration files from the WebFOCUS environment where Resource Management is configured to the EUM environment.

Procedure: How to Copy the RMLDB.FEX and RMLDATA.FEX Files

On the machine where Resource Management is configured, copy the following files:

/install_directory1/ibi/srvxx/server/catalog/rm/rmldb.fex

/install_directory1/ibi/srvxx/server/catalog/rm/rmldata.fex

to:

/install_directory2/ibi/WebFOCUS_BUE82/srv/wfs/catalog/rm/rmldb.fex

/install_directory2/ibi/WebFOCUS_BUE82/srv/wfs/catalog/rm/rmldata.fex

where:

install_directory1

Is the directory where Resource Management is installed.

XX

Is the Reporting Server release.

Note: The type of server you install determines the default names for the program folder and product directory. If you install the WebFOCUS Reporting Server Release 8.2, then the default names will indicate 82. For example:

/install_directory/ibi/srv82

If you install DataMigrator Server Release 7.7 Version 07, then the default names will indicate 77. For example:

/install_directory/ibi/srv77

server

Depends on the license key. Possible values are:

For a 100 Full Function Server license key, the value is ffs.

For a 200 WebFOCUS Server license key, the value is wfs.

For a 300 DataMigrator Server license key, the value is dm.

install_directory2

Is the directory where WebFOCUS BUE is installed.

Procedure: How to Copy the RMPROF.FEX File (Release 8.2 or 7.7.07 Reporting Servers)

On the machine where Resource Management is configured, copy the following file:

/install_directory1/ibi/srvxx/server/catalog/rm/rmprof.fex

to:

/install_directory2/ibi/WebFOCUS_BUE82/srv/wfs/catalog/rm/rmprof.fex

where:

install_directory1

Is the directory where Resource Management is installed.

XX

Is the Reporting Server release.

Note: The type of server you install determines the default names for the program folder and product directory. If you install the WebFOCUS Reporting Server Release 8.2, then the default names will indicate 82. For example:

/install_directory/ibi/srv82

If you install DataMigrator Server Release 7.7 Version 07, then the default names will indicate 77. For example:

/install_directory2/ibi/srv77

server

Depends on the license key. Possible values are:

For a 100 Full Function Server license key, the value is ffs.

For a 200 WebFOCUS Server license key, the value is wfs.

For a 300 DataMigrator Server license key, the value is dm.

install_directory2

Is the directory where WebFOCUS BUE is installed.

Procedure: How to Copy RMPROF.PRF (Release 8.0 or 7.7.05 and 8.1 or 7.7.06 Reporting Servers)

On the machine where Resource Management is configured, copy the following file:

/install_directory1/ibi/srvxx/server/etc/rmprof.prf

to:

/install_directory2/ibi/WebFOCUS_BUE82/srv/wfs/catalog/rm/rmprof.fex

where:

install_directory1

Is the directory where Resource Management is installed.

xx

Is the Reporting Server release.

Using WebFOCUS Enterprise Usage Monitor (EUM)

Note: The type of server you install determines the default names for the program folder and product directory. If you install the WebFOCUS Reporting Server Release 8.2, then the default names will indicate 82. For example:

/install_directory/ibi/srv82

If you install DataMigrator Server Release 7.7 Version 07, then the default names will indicate 77. For example:

/install_directory/ibi/srv77

server

Depends on the license key. Possible values are:

For a 100 Full Function Server license key, the value is ffs.

For a 200 WebFOCUS Server license key, the value is wfs.

For a 300 DataMigrator Server license key, the value is dm.

install_directory2

Is the directory where WebFOCUS BUE is installed.

Configuring EUM to Use the Resource Management Metadata Files

EUM is based on Release 8.2.01M. However, it can support Resource Management files from any 8.x release. This section describes how to use the correct version of the metadata files.

Procedure: How to Use the Correct Resource Management Files

On the machine where WebFOCUS Business User Edition and Enterprise Usage Monitor are configured, copy the correct version of the files into the baseapp application directory.

1. Copy the files:

/install_directory/ibi/WebFOCUS_BUE82/data/apps/baseapp/weum/rmldataNN.mas /install_directory/ibi/WebFOCUS_BUE82/data/apps/baseapp/weum/rmldataNN.acx /install_directory/ibi/WebFOCUS_BUE82/data/apps/baseapp/weum/rmldbNN.mas /install_directory/ibi/WebFOCUS_BUE82/data/apps/baseapp/weum/rmldbNN.acx to each of the following directories: /install_directory/ibi/WebFOCUS_BUE82/data/apps/baseapp/

/install_directory/ibi/WebFOCUS_BUE82/srv/wfs/catalog/rm/

where:

install_directory

Is the directory where WebFOCUS BUE is installed.

NN

Is the Reporting Server version where Resource Management is configured.

 Depending on your server release, rename the corresponding rmldata*NN* files to rmldata.mas and rmldata82.acx in both locations. For example, if you install the WebFOCUS Reporting Server Release 8.2, rename rmldata82.mas to rmldata.mas, rmldata82.acx to rmldata.acx, rmldb82.mas to rmldb.mas, and rmldb82.acx to rmldb.acx.

Configuring Access to the Resource Management Log File (RMLDATA.LOG)

Access to the Resource Management log files is defined through a FILEDEF command that is defined in the Reporting Server profile, edasprof.prf.

Procedure: How to Define a FILEDEF to Access the RMLDATA.LOG File

- 1. Sign in to BUE as manager or navigate back to the browser where you signed in to BUE.
- 2. On the menu bar, click Administration, and then select Reporting Server Console.
- 3. Click the Workspace tab.

4. Navigate to the Configuration Files folder, right-click Server Profile - edasprof.prf, and select *Edit*, as shown in the following image.

Appli	cations	Adapters	Resource M	anagement	Workspace
			9	-	2
Stop R	lestart	Quiesce/Enab	le Event Routing	LOCALE	Login Message
	Operat	tions			
					— 🎁 🈂 🗡
🔻 Works	space				
🔻 Da	ata Servi	ices			
	💜 DE	FAULT			
	🥥 WC	C_DEFAULT			
	SC 💭	HED_DEFAU	LT		
	🧼 DF	M_DEFAULT			
Ja	va Servi	ices			
Sp	ecial Se	rvices and Li	steners		
Cl	uster Ma	anager			
🗸 Co	onfigural	tion Files			
	Wo 🕼 Wo	orkspace - ed	laserve.cfg		
	Ad 🕼	ministration ·	- admin.cfg		
	SE Co	mmunication	- odin.cfg		
	Sel Ve	rsion - versio	n.cfg		
	Sei Sei	rver Profile -	edasprof.prf	S Edit	7
	(E) II	ace Profile - I	Ditrace.rex		
	として、 として、	S Profile - su	prot.prt		
	ME Ge	ograpny - ge norstnes DC	o_services.xr	ni sanf	
	in Hy (Ε) Π.	perstage PG	- postgresql.	Loni L	
	one ⊓y 181 ⊔ ∞	perstage PG	- pg_nba.cor	ll an f	
	о <u>е</u> пу 1€1 цу	perstage PG	 pg_luent.cc infobriabt.c 	nii nf	
	ода пу Пари	perstage PG	- Infooright.c	lii Vini	
	lleor/C	Perstage PG Froup Drofiler	- originatiouse	5.000	
	Miscall		5		
► Lo	os and	Traces			

5. Add a FILEDEF command at the end of the server profile, for example:

FILEDEF baseapp/rmldata DISK /srvxx/wfs/rmldata.log

Note:

□ If you are using a network drive, use the following FILEDEF command:

FILEDEF baseapp/rmldata DISK //machinename/directory/rmldata.log

If you have multiple rmldata files, use the CONCAT command. For example:

```
FILEDEF baseapp/rmldata DISK //machinename/directory/rmldata.log
FILEDEF baseapp/rmldata1 DISK //machinename/directory1/rmldata.log
FILEDEF baseapp/rmldataN DISK //machinename/directoryN/rmldata.log
FILEDEF baseapp/rmldata CONCAT baseapp/rmldata1 baseapp/rmldataN
```

where:

XX

Is the Reporting Server release.

Note: The type of server you install determines the default names for the program folder and product directory. If you install the WebFOCUS Reporting Server Release 8.2, then the default names will indicate 82. For example:

```
/install_directory/ibi/srv82
```

If you install DataMigrator Server Release 7.7 Version 07, then the default names will indicate 77. For example:

```
/install_directory/ibi/srv77
```

machinename

Is the name of the network machine.

directory1...directoryN

Are the names of the network directories.

rmldata1

Is the first WebFOCUS Resource Management file.

rmldataN

Is the Nth WebFOCUS Resource Management file.

- 6. Click Save.
- 7. Navigate to the Miscellaneous Files folder, right-click *Environment edaenv.cfg*, and select *Edit*.
- 8. Add the following command:

computername=hostname

where:

hostname

Is the host name of the machine where EUM is installed.

- 9. Click Save.
- 10. Click Restart in the Operations group on the ribbon for the change to take effect.

Configuring Access to RMLDB

Resource Management historical data is stored in the RMLDB database. This section describes how to configure EUM to access the RMLDB. This configuration may need assistance from your Resource Management administrator.

The Adapter configuration on the WebFOCUS environment where Resource Management is configured needs to be replicated on the EUM environment.

Configure the Adapter to the Resource Management repository. If you have more than one Resource Management repository, each will require a separate installation of EUM.

Procedure: How to Configure the RMLDB Adapter

Gather connection information from the Resource Management server environment.

Note: If you configured the adapter as Trusted, the database administrator must set up a Read Only user ID on the Resource Management repository database. The Resource Management repository database credentials for the Read Only user ID will be used in step 9.

- 1. From the Resource Management Web Console, click the Adapters tab.
- 2. Expand *Configured* to see the list of configured adapters.
- 3. Right-click the adapter and select Properties.
- 4. Use this information to replicate the adapter on the EUM server.

Note: It is critical the connection name is identical.

- 5. Sign in to BUE using the manager user ID.
- 6. From the menu bar, click Administration, and then select Reporting Server Console.
- 7. Click the *Adapters* tab.

8. In the Adapters panel, expand *Available* to find the same adapter being used for the RMLDB database, as shown in the following image.



9. Once you locate the correct adapter, right-click it and select *Configure*. Type the same properties as you have on your Resource Management Reporting Server.

Note: If the RMLDB adapter is Trusted, select *Explicit* from the Security drop-down list and type the user credentials of the Read Only user ID.

10. Click *Test* to verify the connection.

Granting Access to Server Roles to Read Data Outside of Installation Directories

The rmldata.log file to be monitored is typically located outside of the EUM machine. In order for developers and basic users to access the file, it will be necessary to change their file privileges on the EUM Reporting Server.

Procedure: How to Grant Access to Server Roles to Read Data Outside of Installation Directories

- 1. Sign in to BUE using the manager user ID.
- 2. From the menu bar, click Administration, and then select Reporting Server Console.
- 3. On the Reporting Server Console, click the Access Control tab.
- 4. On the Access Control panel, navigate to Roles, and then select Application Administrator.

5. Right-click *modelgrp/Developers* (*Customized*), and then select *Directory/File Privileges*, as shown in the following image.



The Directory/File Privileges pane appears.

6. Select the *Read* option on the first row (*). This will automatically enable developers to have read access to files outside the EUM environment, as shown in the following image.

Customized								
Directory/File	Read	Write	Execute	List	Status	Inherit Subject	Inherit Directory	Remark
* *					Customized			
✓ C:					Inherited	Group - modelgrp/Developers	*	
🕶 ibi					Inherited	Group - modelgrp/Developers	*	
WebFOCUS_BUE82					Inherited	Group - modelgrp/Developers	*	
🕶 data					Inherited	Group - modelgrp/Developers	*	
🕶 apps					Customized			APPROOT
baseapp	~				Customized			
modelapp					Customized			
🕶 srv					Inherited	Group - modelgrp/Developers	*	
home					System Default			EDAHOM
profiles					System Default			EDAPRFU
✓ wfs					Inherited	Group - modelgrp/Developers	*	EDACON
bin			Image: A start of the start		System Default			
 catalog 					Inherited	Group - modelgrp/Developers	*	
m					System Default			
🕶 etc					System Default			
edasprof.prf					System Default			

- 7. Click Save and then click OK.
- 8. On the Access Control panel, navigate to *Roles*, and then select *Basic User*.
- 9. Right-click modelgrp (Customized) and select Directory/File Privileges.

The Directory/File Privileges pane appears.

- 10. Select the *Read* option on the first row (*). This will automatically enable basic users to have read access to files outside the EUM environment.
- 11. Click Save and then click OK.

Configuring Access to the Mid-Tier Log File

This section describes the remaining steps to configure EUM to access the mid-tier log file. It may be necessary to redirect the mid-tier log files to a drive that is accessible from the EUM machine.

Procedure: How to Configure Access to the Mid-Tier Log File

- 1. Sign in as the manager user ID.
- 2. On the menu bar, click Administration, and then select Reporting Server Console.
- 3. Click the Applications tab.
- 4. Expand the *baseapp* application folder.
- 5. Right-click the requestsprof.fex file and select Open.
- 6. Edit the file so the following line contains the location of the WebFOCUS environment requests.*.log files, as follows:

```
-SET &&DSN = ' /install_directory/ibi/WebFOCUSnn/logs/' | 'requests.' | &DT | '.log';
```

where:

install_directory

Is the directory where the WebFOCUS Client application server is installed.

nn

Is the WebFOCUS release.

7. Click Save.

At this point, EUM is fully installed and configured. The dashboard pages in the EUM portal should be populated with real time (RMLDATA.LOG) and historical (RMLDB) data, as shown in the following image.





Navigating the Enterprise Usage Monitor Environment

This topic describes how to navigate the Enterprise Usage Monitor (EUM) portal and gives an overview of the content items you can access here.

In this chapter:

Navigating the Enterprise Usage Monitor Environment

Navigating the Enterprise Usage Monitor Environment

It is also important to understand that Manager users, Developers, Advanced users, and Basic users have different access to environment options. That access is determined by the group of users to which you are assigned.

Navigating the Enterprise Usage Monitor Portal

When you access the Enterprise Usage Monitor environment, using the Sign-in page or browser URL, you are presented with the EUM Portal. From the portal, depending on your user role, you can create and edit content, view content that other users published or shared, create and edit personal pages, manage users, configure the system, upload files to the repository, connect to data and edit data, and access interactive help and instructional materials.

The main components of the EUM Portal include a Getting Started Page, Home Page, Real Time RMLDATA Static Page, Real Time RMLDATA Dynamic Page, Resources tree, and Menu bar.

Getting Started Page

The Getting Started page, shown in the following image, is the first page that you see when you sign in to WebFOCUS EUM with the login and password that you created during the installation.



The Getting Started page provides access to resources that get you started with the software. You can access the Information Center and technical videos.

Note: This page is similar to the Getting Started page in the standard Business User Edition portal, but it does not include access to the Upload wizard and Connect to Data wizard features or technical videos. You can access the Upload wizard and Connect to Data functionality from the Resources tree. To view the related technical videos, visit the WebFOCUS Business User Edition Information Center.

Only Manager users can access this page.

Home Page

The Home page, which is shown in the following image, is the first page that you see when you sign in as a Basic User, Advanced User, Developer, or Group Administrator.



The Home page has three sections with which you can interact:

- Menu bar
- Resources tree
- Quick Links tab

The content in these sections varies, depending on your user type.

Menu Bar

The Menu bar is located in the upper-right section of the screen, inside the top banner. The following image shows the Menu bar that appears when you are signed in as a Manager.



Change your password (click your username).

Tools:

- Use the status of deferred reports, and manage them.
- □ Stop your outstanding interactive requests that are running.

- Access Session Viewer, where you can visualize the attributes of the current web session.
- Access the ReportCaster Status, where you view the status of your scheduled jobs and log reports.
- Administration:
 - Access the Security Center, where you define users and groups and grant access permissions.
 - Access the Administration Console, where you configure, administer, and monitor the components of the WebFOCUS application.
 - Access the Reporting Server Console, where you can view and manage the server environment.
 - Uiew and administer the private resources for groups and users.
 - Switch between Normal mode (seeing your own content) and Manager mode (managing other user content).
- Open the Resources tree on the right side of the window, so you can manage content on Personal Pages.
- Access the online Help, Information Center, a library of Help topics, self-service videos, Community, Information Builders Home page, as well as information about the WebFOCUS Enterprise Usage Monitor application, version, and available licenses.
- Sign out.

Resources Tree

The Resources tree, located on the left side of the Home page, contains your available resources, such as domains, folders, and content. It also contains functionality that allows you to save content as a favorite, or perform a Change Management import or export. The following image shows the Resources tree that appears when you are signed in to WebFOCUS Enterprise User Monitor.



The resources are secured using the security model, that is domain-based, similar to that of desktop operating systems. The resources differ for every user. For example, the Basic User sees only public content.

The Resources tree contains the following nodes:

- **Domains.** Lists the domains and folders that you have created. Yellow folders are published folders. Gray folders are unpublished.
- **Favorites.** Lists the items that you have designated as Favorites.
- **Change Management.** Lists the Import and Export facilities.
 - **Import.** Enables users to move a change package into an acceptance test.
 - **Export.** Enables a developer to move changes made to application files to the user acceptance test environment.

Node Shortcut Menu Options

Each node in the Resources tree has a shortcut menu. The available options include:

- **View.** This option is only available for the Domains node, and includes:
 - **Display By Title.** Displays folders by title. The default display.

- **Display By Name.** Displays folders by name.
- **New.** This option is only available to managers, and includes:
 - **Domain.** Creates a new domain.

Note: In the EUM portal, all content that is necessary for the optimal performance of the product is created by default. If you want to create new content, it is recommended to create a new domain for this content.

- **Refresh.** Refreshes the Resources tree. The option is available for all nodes.
- **Paste.** Pastes the item under the applicable node.
- □ Clear Favorites. Clears the Favorites list. This option is only available for the Favorites node.

Default Domains

The Enterprise Usage Monitor environment comes with three default domains:

- Enterprise Usage Monitor
- Getting Started
- Retail Samples

The purpose and contents of each domain are described in the sections below.

Reference: Enterprise Usage Monitor Domain

The Enterprise Usage Monitor domain is a read-only domain that contains content for analyzing resource management data. If you want to modify this content, you can safe updated versions of it in a new domain or My Content folder. The Enterprise Usage Monitor domain is comprised of the following folders:

My Content

A folder intended for reports, output, and schedules created by a user.

Alerts

Contains Alert templates for Average Response Time, Average Response Time by User, and DBMS Time.

MIDTIER

Contains a visualization that is used in the Midtier dashboard inside the Real Time RMLDATA Static and Real Time RMLDATA dynamic pages.

Resource Management

Provides access to the Resource Analyzer HTML document where you can run a series of Resource Management reports.

RMLDATA

Contains content items built using the RMLDATA data file, which shows your current realtime data.

RMLDB

Contains content items built using the RMLDB data source, which shows your historical data.

Reference: Getting Started Domain

Using the Getting Started domain you can build your own content and test various report procedures. This domain is included with the standard Business User Edition product.

Reference: Retail Samples Domain

The Retail Samples domain is a read-only domain that contains sample of content that was created using InfoAssist+ and App Studio, such as reports, charts, documents, visualizations. It also provide a URL to the demo videos that explain how you can create these items. This domain is included with the standard the Business User Edition product.

Quick Links

The Quick Links on the Home page, include links for uploading or connecting to data, creating content, managing domains and users, and configuring your system. It also shows the name of the domain that is currently highlighted in the Resources tree. Whenever you navigate to a different domain, the Quick Links refresh to reflect the new active directory.

The available Quick Links also change depending on the user. Each user only sees the options that they have privileges to access. The following image shows an example of the Quick Links that are available for a Manager.



Real Time RMLDATA Static and Dynamic Pages

The Real Time RMLDATA Static and Real Time RMLDATA Dynamic pages show the same content, but use different intervals in which the data is refreshed. The static page refreshes every time you load the page, so you can use it for analysis. The dynamic page automatically refreshes every 30 seconds. You can use it to view the resource management data in real time. Each page contains the following dashboards:

Metrics by User



The Metrics by User dashboard is shown in the following image.

The Metrics by User dashboard contains a visualization comprised of content that shows core metrics (DBMS, CPU, Elapsed, and Server Time) utilization by User. You can use the filter panels on the right to narrow your results to a specific date and time, user ID, server name, and agent service name.

Gamma Response Times by Datetime

The Response Times by Datetime dashboard is shown in the following image.



The charts on the Response Time by Datetime dashboard show how many reports are being run by user ID, core metrics by hour, and core metrics by user ID. The reports on the bottom of the dashboard show four types of response times (Average, Mean, Min, and Max) by date and by reporting server. You can sort report columns in ascending or descending order, or use the filter panels on the right to narrow your results to a specific user ID, start date, start hours, server name, and agent service name.

❑ Metrics and Average Response Times

The Metrics and Average Response Times dashboard is shown in the following image.



The series of horizontal charts across the top of the Metrics and Average Response Times dashboard show core metrics (DBMS, CPU, Elapsed, and Server time) by time and hour. The report and charts in the left middle show core metrics and average user response time by user ID and server. You can sort report columns in ascending or descending order. The line chart on the bottom shows user average response time by date and time. This chart is intended give a summary of how well the system is performing at a given time. You can also use the filter panels on the right to narrow your results to a specific start date, start hour, user ID, server name, and agent service name.

Mid-tier



The Mid-tier dashboard is shown in the following image.

The Mid-tier dashboard represents activity on the WebFOCUS mid-tier. The line chart on top shows the mid-tier CPU utilization by time. The horizontal bar charts show core metrics (CPU, DBMS and Web Tier time) by user and time. The report on the bottom-right shows the domains and procedures users run, and the time they run them. You can sort the columns in ascending or descending order, or use the filter panels on the right to narrow your results to a specific user ID, hour and minute range.



Understanding Resource Management Reports

Resource Analyzer monitors data usage activity by collecting the attributes of requests and storing them in a set of Usage Monitoring tables. It automatically keeps track of each request, which data sources and columns it accessed, when it was run, how long it took, which resources it consumed, and more. Resource Analyzer allows you to report on, graph, and analyze end-user request traffic.

In this chapter:

- Running Resource Analyzer Reports
- Available Resource Analyzer Reports

Running Resource Analyzer Reports

After you have enabled Usage Monitoring for a period of time and Resource Analyzer has collected a reasonable amount of data, you can display several reports and graphs about the monitored data. The Resource Analyzer reports are available from the Enterprise Usage Monitor (EUM) portal.

Procedure: How to Run Resource Analyzer Reports

To run a Resource Analyzer report:

1. Sign in to Enterprise Usage Monitor.

2. On the Home page, expand the *Resource Management* folder in the Resources Tree, rightclick *ResourceAnalyzer*, and click *View*, as shown in the following image.

Home	Getting Started	Real Time RMLDATA
- 🌒	Domains	
-	🔄 Enterprise Usage I	Monitor
	My Content	
	Alerts	
	MIDTIER	
	Resource Man	agement
	Resource	- Inalvzer
	🗐 run rec 🎙	🖻 View
		Copy Ctrl+C
	Getting Started	Add To Favorites
	Retail Samples	
	Favorites	Unpublish
→ z	Change Manageme	Properties

- 3. The Resource Analyzer Reports filter window opens.
- 4. Select the report you want to run from the Select Report drop-down menu, as shown in the following image.

		Resource An	alyzer Reports					
Select Report	Select Server	Report Format	Report Period	Start Date	End D	ate		Visualize Data
Monitored Sessions	v	HTML ~	Date Range ~		05/25/	2017	6	

Here, you can specify general information that applies to all Resource Analyzer reports. This information includes setting date ranges for report selection criteria, drilling down on reports for more details, and displaying reports in graphical format.

Note: All of the Report filter options shown are only available for the following reports:

- Monitored Sessions
- Monitored Commands

All other reports will only have the first three options available.

The following options are available:

Select server

The server, or servers, you want to report on. Multiple server support is only available if the server you are connected to is part of a many-to-one configured repository.

Report format

Allows you to select the output format of the report. The available options are HTML, active report, PDF, Excel, and PowerPoint. The default value is HTML.

Report period

The time range that the report will be run on.

Start Date

Allows you to select the first date of the reporting range.

End Date

Allows you to select the first date of the reporting range. The default end date is the current date.

Visualize Data

Allows you to add visualization to numeric resource values, such as CPU and duration times. This option is enabled, by default.

Top Number

Allows you to set the top number of users, procedures, or data sources selected for Top n reports. The available options are 5, 10, 15, 20, and 25. The default value is 10.

Note: This option is only available when running a Users Top n report.

Location of names file

Allows you to decode the sign-in ID to a user name to use in the Top n Users report. The format for the file is *userid*, '*name*'. The default file searched for is names.txt in the baseapp folder.

Note: This option is only available when running a Top n report.

The information you supply here will apply to any report you run. To change this information, return to this screen by running another report and changing the filters.

5. Click View Report.

Available Resource Analyzer Reports

Resource Analyzer offers tabular and graphical reports that show content planning requirements, user activity profiles, usage profiles over time, typical request structures, and columns used.

Initially, when you execute reports, you will usually see a general summary report for the category. Most of the column headings of the reports are hyperlinked. You can click the column heading links to re-sort the report by different columns. In addition, other hyperlinks in the report let you drill down to more detailed information. These hyperlinked drill-down options are described in more detail throughout this chapter.

The following sections describe the individual reports, as well as the hyperlinked drill-down options for each report.

Monitored Sessions

The Monitored Sessions report provides an overview of the procedures and commands that are being monitored, including the number of records processed, and the rows returned.

The following image shows the Monitored Sessions report.

	Session Summary Report Server Name: FUENT-PC:8121 Date Range: 05/12/2015 - 09/12/2016										
Date	Session Count	Duration	CPU Time	Wait Time	Adapter Time	Monitored Procedures	Monitored Commands	I/O Used	Records Processed	Rows Returned	Transactions
08/12/2016	3	00:00:00.3250	00:00:00.2800	00:00:00.0450	00:00:00.0310	0	9	10	1,058	12	0
08/31/2016	32	00:00:24.6340	00:00:01.2010	00:00:23.4330	00:00:08.7320	0	10	0	297	297	228
09/09/2016	55	00:00:14.6630	00:00:02.9570	00:00:11.7060	00:00:03.5900	8	27	40	3,249	906	299
09/12/2016	32	00:00:19.9240	00:00:01.6400	00:00:18.2840	00:00:11.4340	0	13	10	1,405	359	296
Grand Total	122	00:00:59.5460	00:00:06.0780	00:00:53.4680	00:00:23.7870	8	59	60	6,009	1.574	823

This report has one hyperlink that allows you to drill down to other reports, as described in the following table.

Click a hyperlink in the:	Report Generated	Description
Date column	Session Summary Report by Hour, then by Quarter, and then by detail.	

Monitored Commands

The Monitored Commands report provides an overview of the resources being used by each command, including the execution, CPU, and wait time.

	Resources Used by Command Server Name: FUENT-PC:8121 Date Range: 08/12/2015 - 09/12/2016									
Date	Command	Usage Count	Execution	CPU Time	Wait Time	Adapter Time	I/O Used	Records Processed	Rows Returned	Transactions
09/12/2016	TABLE	7	00:00:00.3240	00:00:00.0460	00:00:00.2780	00:00:00.0000	0	173	173	0
	TABLEF	7	00:00:04.2640	00:00:00.2660	00:00:03.9980	00:00:00.0000	0	206	206	0
09/09/2016	JOIN	1	00:00:00:0000	00:00:00:0000	00:00:00.0000	00:00:00.0000	0	0	0	0
	TABLE	10	00:00:00.7900	00:00:00.1120	00:00:00.6780	00:00:00.1230	2	201	201	0
	TABLEF	9	00:00:02.6030	00:00:00.1800	00:00:02.4230	00:00:00.0000	0	208	208	0
08/31/2016	TABLE	7	00:00:00.5270	00:00:00.0460	00:00:00.4810	00:00:00.0000	0	133	133	0
	TABLEF	3	00:00:09.9270	00:00:00.3270	00:00:09.6000	00:00:00.0000	0	162	162	0
08/12/2016	TABLE	8	00:00:00.1030	00:00:00.0550	00:00:00.0480	00:00:00.0300	8	1,058	12	0
	TABLEF	1	00:00:00.0050	00:00:00:0000	00:00:00.0050	00:00:00.0000	2	0	0	0
Grand Total:			00:00:18.5430	00:00:01.0320	00:00:17.5110	00:00:00.1530	12	2,141	1,095	0
Percentage and Ratio fields are rounded values Resource Analyzer Date:09/12/16 1 Time:15.16.37										

The following image shows the Monitored Commands report.

Data Sources Never Used

The Data Sources Never Used report provides an overview of unused data sources, including the application directory they are found in, and the last modification date and time.

The following image shows the Data Sources Never Used report.

Unused Master File Descriptions Server Name: FUENT-PC:8121					
Application	Data Source	Last Modification Date	Last Modification Time		
baseapp	dmortmplx	2012/05/23	12.41.43		
	dmpers	2010/09/28	14.23.08		
	dmxduplg_dupl	2012/05/22	15.40.14		
	dmxord	2012/05/23	11.29.42		
dimensions	ed_type_lookup	2016/05/23	15.45.56		
	ed_type_lookup	2016/06/28	15.57.55		
	wf_retail_age	2016/05/23	15.45.06		
	wf_retail_age	2016/06/28	15.57.49		

Procedures Never Used

The Procedures Never Used report lists those procedures in the application path of the server that have never been executed.

The following image shows the Procedures Never Used report.

	Unused Procedure Server Name: FUENT-PC:8	S 121	
Application	Procedure	Last Modification Date	Last Modification Time
baseapp	flow01	2012/01/04	11.40.41
	flow01_dmhr_t	2012/01/04	11.40.41
	opt_test1	2014/03/25	11.57.34
	profile	2010/08/11	11.21.53
dimensions	ed_subtype_lookup	2016/05/23	15.45.56
	ed_subtype_lookup	2016/06/28	15.57.55
ibisamp	cargraph	2012/02/06	22.05.52
	carinst	2012/02/06	22.05.52
	carinst2	2012/02/06	22.05.52

Users Report by Frequency of Use

The following image shows the Users Report by Frequency of Use, which provides a summary of user activity. This report lists users on the left, followed by columns with hyperlinked headings that indicate the number of requests the users submitted, their percentage of total requests and resource usage, and their first and last access dates. Click any of the hyperlinked column headings to sort the report by that column.

Users - Frequency of Use Summary Server Name: FUENT-PC:8121 Date Range: 08/12/2015 - 09/12/2016							
User	Number of Commands Executed	Number of Distinct Procedures	% Total Commands	% Total Procedures	% Total Resources	First Command Executed	Last Command Executed
IBI\CF12026	53	4	100.00	100.00	<u>100.00</u>	08/12/2016	09/12/2016
Grand Total:	53	4	100.00	100.00	100.00		

This report has several hyperlinks that allow you to drill down to additional reports. The following table lists and describes these hyperlinks.

Hyperlink in the:	Report Generated	Description
% Total Commands column.	Procedure Use by User	Lists the procedures executed by the user with information about how often and when the executions have occurred. Also allows you to drill down to see detailed request information for each procedure as well as the actual request syntax
% Total Procedures column.	Procedure Summary for User	Lists the procedures used for requests by the specified user, along with request and resource information and dates of access. Also allows you to drill down to see detailed request information for each procedure as well as the actual request syntax.
% Total Resources column.	Resources used by User	Summarizes the resource usage of the specified user, including number of requests, elapsed time, CPU seconds, I/Os, rows returned, and access dates.

Users Report by Resources Used

The following image shows the Users Report by Resources Used, which provides information on resource utilization by user. This report lists users along with the number of requests they submitted, total and average elapsed time, CPU seconds, I/Os, rows, and their first and last access dates. Click any of the hyperlinked column headings to sort the report by that column.

Users - Resources Used Server Name: FUENT-PC:8121 Date Range: 08/12/2015 - 09/12/2016													
User	Number of Commands Executed	Total Execution Time	Total CPU Time	Total Adapter Time	Average Execution Time	Average CPU Time	Average Adapter Time	Total I/Os	Total Rows	Average I/Os	Average Rows	First Command Execution	Last Command Execution
IBI\CF12026	53	00:00:18.5430	00:00:01.0320	00:00:00.1530	00:00:00.3499	00:00:00.0195	00:00:00.0029	12	1,095	0	21	08/12/2016	09/12/2016
Grand Total:	53	00:00:18.5430	00:00:01.0320	00:00:00.1530	00:00:00.3499	00:00:00.0195	00:00:00.0029	12	1,095	0	21		

This report has one hyperlink that allows you to drill down to another report, as described in the following table.

Hyperlink in the:	Report Generated	Description
User column.	Data Source Use by <i>User</i>	Lists the data sources accessed by the specified user, information about the requests, and dates of access. Also allows you to drill down to see column and data type information, as well as procedures used in requests by the specified user.

Users Report by Historical Use

The following image shows the Users Report by Historical Use, which provides information on historical activity by user. This report lists users along with the number of requests they submitted in a particular year and the percentages of their requests and resource usage out of the totals of that year. Click any of the hyperlinked column headings to sort the report by that column.

Users - Historical Use Server Name: FUENT-PC:8121 Date Range: 08/12/2015 - 09/12/2016						
User	Year	Number of Commands Executed	Number of Distinct Procedures	% Total Requests	% Total Procedures	% Total Resources
IBI\CF12026	2016	53	4	100.00	<u>100.00</u>	100.00
Total for: IBI\CF12026		53	4	100.00	100.00	100.00
Grand Total:		53	4	100.00	100.00	100.00

This report has several hyperlinks that allow you to drill down to additional reports, summarized in the following table.

Hyperlink in the:	Report Generated	Description
User column.	Data Source Use by <i>User</i>	Lists the data sources accessed by the specified user, information about the requests, and dates of access. Also allows you to drill down to see column and data type information, as well as procedures used in requests by the specified user.

Hyperlink in the:	Report Generated	Description		
Year column.	Access per Month for User during <i>Year</i>	Summarizes by month the number of requests made by the specified user, along with the percentage of the user requests and resource usage out of the particular date totals.		
% Total Procedures column.	Procedures used by User	Summarizes the procedure access of the specified user, including number of executions and % of resources used.		

Users Report by Top N

The following image shows the Users Report by Top n Users, which shows the usage data for the top number of users specified. The number of users is specified in the Top number dropdown menu of the Report Filter. The available options for top number are 5, 10, 15, 20, and 25. The default value is 10. The Name column in this report can use a file that decodes the User ID shown in the User column. The format for the file is *userid*,*name*. The default file searched for is names.txt in the baseapp folder.

Top 10 Users Server Name: FUENT-PC:8121 Date Range: 08/12/2015 - 09/12/2016

User	Name	Session Count	Total Elapse Time	Total CPU Time	Total Wait Time
IBI\CF12026	**Unknown User**	155	00:01:04.8620	00:00:08.7320	00:00:56.1300
Grand Total:		155	00:01:04.8620	00:00:08.7320	00:00:56.1300

Procedures Report by Frequency of Use

The following image shows the Procedures Report by Frequency of Use, which provides a summary of procedures being executed. This report lists procedures executed at your site by type, along with statistics about each execution.

Procedures - Frequency of Use Summary Server Name: FUENT-PC:8121 Date Range: 08/12/2015 - 09/12/2016

Procedure Type	Number of Executions	% Total Executions	% Total Resources	First Execution	Last Execution
Ad-Hoc	76	95.00	99.12	08/12/2016	09/12/2016
Application	4	5.00	.88	09/09/2016	09/09/2016
Grand Total:	80	100.00	100.00		

This report has one hyperlink that allows you to drill down to another report, as described in the following table.

Hyperlink in the:	Report Generated	Description
Procedure Type column.	Request from Procedure Ad hoc or Procedure Summary (depending on procedure type selected)	Lists the date and time, user, resource, and execution information for all procedures of the specified type. Also allows you to drill down further to see the actual request syntax.

Procedures Report by Resources Used

The following image shows the Procedures Report by Resources Used, which provides a summary of resource utilization by procedure. This report summarizes the resource usage for the procedures executed at your site, including their percentage of total procedures and resources used, as well as total CPU seconds, elapsed time, I/Os, rows, and first and last execution.

Procedures - Resources Used Server Name: FUENT-PC:8121 Date Range: 08/12/2015 - 09/12/2016										
Procedure Type	Number of Executions	Total Execution	Total CPU	Total Adapter	Total I/Os	Total Rows	% Total Executions	% Total Resources	First Execution	Last Execution
Ad-Hoc	76	00:00:20.1400	00:00:01.6630	00:00:00.0300	10	2,191	95.00	98.84	09/12/2016	09/12/2016
Application	4	00:00:00.1920	00:00:00.0020	00:00:00.1230	2	24	5.00	1.16	09/09/2016	09/09/2016
Grand Total:	80				12	2,215	100.00	100.00		

This report has one hyperlink that allows you to drill down to another report, as described in the following table.

Hyperlink in the:	Report Generated	Description
Procedure Type column.	Procedure Resource Utilization	Summarizes the executions, users, total and average resource usage, and execution dates for procedures of all types. Also lets you drill down on procedure names to see more detailed usage information as well as the actual request syntax.

Procedures Report by Historical Use

The following image shows the Procedures Report by Historical Use, which provides information on historical activity by procedures. This report summarizes by year the number of executions, users, and percentage of executions and resources used by the types of procedures at your site. Click any of the hyperlinked column headings to sort the report by that column.

Procedures - Historical Use Server Name: FUENT-PC:8121 Date Range: 08/12/2015 - 09/12/2016

Procedure Type	Year	Number of Executions	% Total Executions	% Total Resources
Ad-Hoc	<u>2016</u>	76	95.00	99.12
Application	<u>2016</u>	4	5.00	.88

This report has one hyperlink that allows you to drill down to another report, described in the following table.

Hyperlink in the:	Report Generated	Description
Year column.	Procedure Access by Year by Month	Lists the month for all executed procedures of the specified procedure type and year. Also lists their number and percentage of executions, their number of users, and their resource usage percentage.
Procedures Report by Top N

The following image shows the Procedures Report by Top n Users, which shows the top number of procedures executed by the user. The number of procedures is specified in the Top number drop-down menu of the Report Filter. The available options for top number are 5, 10, 15, 20, and 25. The default value is 10.

Top 10 Procedures/Reports Server Name: FUENT-PC:8121 Date Range: 08/12/2015 - 09/12/2016

Procedure/Report	Number of Commands Executed	Total Elapse Time	Total CPU Time	Total Wait Time
baseapp/prc01	1	00:00:00.0060	00:00:00.0060	00:00:00:0000
baseapp/ra_test1	1	00:00:00.0440	00:00:00.0000	00:00:00.0440
baseapp/sales by brand	1	00:00:00.1450	00:00:00.0000	00:00:00.1450
baseapp/testerror	1	00:00:00.0630	00:00:00.0000	00:00:00.0630
Grand Total:	4	00:00:00.0630	00:00:00.0000	00:00:00.0630

Hyperlink in the:	Report Generated	Description
Procedure/Report column.	Procedure execution count by User	Shows how many times the selected procedure was executed by the user.

Data Sources Report by Frequency of Use

The following image shows the Data Sources Report by Frequency of Use, which provides a summary of data sources being used. This report lists all accessed data sources along with the number and percentage of requests to each data source, the number of users, the percentage of resources consumed, and access dates. Click any of the hyperlinked column headings to sort the report by that column.



This report has several hyperlinks that allow you to drill down to additional reports, summarized in the following table.

Hyperlink in the:	Report Generated	Description
Data Source column.	Column Level for Data Source <i>Data Source</i>	Shows usage for the columns for the specified data source, including whether they were used with functions, relations, selects, sorts, and groups, and how many days the column has been unused. Also allows you to drill down to see more information about when the columns were used.
Data Type column.	Data Sources of type Data Type	Lists all the data sources of the specified data type (the engine used in your enterprise) along with the dates of first and last access for each data source.

Hyperlink in the:	Report Generated	Description
Number of Times Used column.	Request Activity for Data Source: <i>Data</i> Source	Shows request activity for all users of the specified data source, including I/Os, rows returned, and elapsed time. Also allows you to drill down further to see the actual request syntax.
Number of Distinct Users column.	Users of Data Source	Lists all users of the specified data source along with a summary of the resources they have used.
% Total Requests column.	Procedures Using Data Source	Lists the procedures used to access the specified data source, along with their resource usage and dates of access. Also allows you to drill down on a procedure name to see request information for that procedure and the actual request syntax.

Data Sources Report by Resources Used

Understanding the patterns of resource usage at your site, including CPU and elapsed time, I/Os, and rows returned, can be helpful in several ways. This information can help you determine which data sources might be good candidates for pre-joining, pre-aggregation, or denormalization, and help you decide which data to index. In addition, you can monitor users and inform them of their resource usage to encourage them to plan their requests more efficiently. Accessing the Data Sources report category by the Resource Utilization mode of analysis can help you with all of these issues.

The following image shows the Data Sources Report by Resources Used, which provides a summary of resource utilization by data source. This report summarizes the resources used by all data sources at your site, including both total and average elapsed time, CPU seconds, I/Os, and returned rows. Click any of the hyperlinked column headings to sort the report by that column.

Data Sources - Resources Used Server Name: FUENT-PC:8121 Date Range: 08/12/2016 - 09/13/2016														
Application Name	Data Source	Data Type	Number of Times Used		Total Execution*	Total CPU*	Total Adapter*	Average Execution*	Average CPU*	Average Adapter*	Total I/O*	Total Rows Returned*	Average	Average Rows Returned*
wfdemo/dimensions	wf retail industry	EDA	1	•	00:00:00.0060	00:00:00.0000	00:00:00.0020	00:00:00.0060	00:00:00.0000	00:00:00.0020	1	1	1	1
	wf retail labor rate	EDA	1	•	00:00:00.0060	00:00:00.0060	00:00:00.0020	00:00:00.0060	00:00:00.0060	00:00:00.0020	1	1	1	1
	wf retail marital status	EDA	1	•	00:00:00.0120	00:00:00.0000	00:00:00.0050	00:00:00.0120	00:00:00.0000	00:00:00.0050	1	1	1	1
	wf retail occupation	EDA	1	•	00:00:00.0080	00:00:00.0080	00:00:00.0020	00:00:00.0080	00:00:00.0080	00:00:00.0020	1	1	1	1
	wf retail product	EDA	8		00:00:00.9630	00:00:00.7210	00:00:00.1900	00:00:00.1204	00:00:00.0901	00:00:00.0238	11,051	11,051	1,381	1,381
	wf retail shipping options	EDA	1		00:00:00.0260	00:00:00.0000	00:00:00.0230	00:00:00.0260	00:00:00.0000	00:00:00.0230	1	1	1	1
	wf retail store	EDA	8		00:00:00.9670	00:00:00.7210	00:00:00.1920	00:00:00.1209	00:00:00.0901	00:00:00.0240	11,051	11,051	1,381	1,381
	wf retail time	EDA	1	•	00:00:00.0240	00:00:00.0000	00:00:00.0200	00:00:00.0240	00:00:00.0000	00:00:00.0200	1	1	1	1
	wf retail time lite	EDA	Z		00:00:00.9550	00:00:00.7210	00:00:00.1870	00:00:00.1364	00:00:00.1030	00:00:00.0267	11,050	11,050	1,579	1,579
	wf retail vendor	EDA	1		00:00:00.0160	00:00:00:0000	00:00:00.0120	00:00:00.0160	00:00:00.0000	00:00:00.0120	1	1	1	1
Total for: wfdemo/di	mensions	EDA	52		00:00:05.0650	00:00:03.6900	00:00:01.1410	00:00:00.8208	00:00:00.5204	00:00:00.2651	55,267	55,267	7,116	7,116
wfdemo/facts	wf retail labor	EDA	1	•	00:00:00.0340	00:00:00.0000	00:00:00.0300	00:00:00.0340	00:00:00.0000	00:00:00.0300	1	1	1	1
	wf retail sales	EDA	<u>8</u>		00:00:00.9750	00:00:00.7210	00:00:00.2020	00:00:00.1219	00:00:00.0901	00:00:00.0253	11,051	11,051	1,381	1,381
	wf retail shipments	EDA	1		00:00:00.0230	00:00:00.0000	00:00:00.0190	00:00:00.0230	00:00:00.0000	00:00:00.0190	1	1	1	1
Total for: wfdemo/fa	cts	EDA	10		00:00:01.0320	00:00:00.7210	00:00:00.2510	00:00:00.1789	00:00:00.0901	00:00:00.0743	11,053	11,053	1,383	1,383
Grand Total:		EDA	96		00:00:16.4410	00:00:11.6680	00:00:01.5790	00:00:10.2816	00:00:07.1090	00:00:00.3661	80,330	79,504	12,180	11,354

This report has several hyperlinks that allow you to drill down to additional reports, summarized in the following table.

Hyperlink in the:	Report Generated	Description
Data Source column.	Column Level for Data Source <i>Data Source</i>	Shows usage for the columns for the specified data source, including whether they were used with functions, relations, selects, sorts, and groups, and how many days the column has been unused. Also allows you to drill down to see more information about when the columns were used.
Number of Times Used column.	Procedures Using Data Source	Lists the procedures used to access the specified data source, along with their resource usage and dates of access. Also allows you to drill down on a procedure name to see request information for that procedure and the actual request syntax.

Data Sources Report by Historical Use

The accessibility of a web environment makes rapid growth of your user base inevitable. As more users are accessing more data, monitoring site activity becomes more important, offering you information about the following areas:

- How much data is being requested.
- U What the busiest times of the day, week, and month are.
- U Which users are most active against which data sources.
- U What standard response times have been.

Accessing the Data Sources report category by historical analysis lets you analyze user activity to determine the peaks and valleys in system usage, supplying you with a solid basis for deciding how to schedule requests, educate users, and so on.

The following image shows the Data Sources Report by Historical Use, which provides information on historical activity by data source. This report summarizes request activity by year and month for all accessed data sources at your site. Click any of the hyperlinked column headings to sort the report by that column.

Data Sources - Historical Use Server Name: FUENT-PC:8121 Date Range: 08/12/2016 - 09/13/2016								
Application Name	Data Source	Data Type	Year	Number of Times Used	Number of Distinct Users	% Total Requests	% Total Resources	
wfdemo/dimensions	wf retail labor rate	EDA	<u>2016</u>	1	1	1.04	.03	
	wf retail marital status	EDA	<u>2016</u>	1	1	1.04	.03	
	wf retail occupation	EDA	<u>2016</u>	1	1	1.04	.04	
	wf retail product	EDA	<u>2016</u>	8	2	8.33	8.83	
	wf retail shipping options	EDA	<u>2016</u>	1	1	1.04	.06	
	wf retail store	EDA	<u>2016</u>	8	2	8.33	8.84	
	wf retail time	EDA	<u>2016</u>	1	1	1.04	.05	
	wf retail time lite	EDA	<u>2016</u>	7	1	7.29	8.81	
	wf retail vendor	EDA	<u>2016</u>	1	1	1.04	.04	
Total for: wfdemo/di	mensions			52		54.17	44.92	
wfdemo/facts	wf retail labor	EDA	<u>2016</u>	1	1	1.04	.08	
	wf retail sales	EDA	<u>2016</u>	8	2	8.33	8.86	
	wf retail shipments	EDA	<u>2016</u>	1	1	1.04	.05	
Total for: wfdemo/fa	cts			10		10.42	8.99	
Grand Total:				96		100.00	100.00	

This report has several hyperlinks that allow you to drill down to additional reports, summarized in the following table.

Hyperlink in the:	Report Generated	Description
Data Source column.	Column Level for Data Source <i>Data Source</i>	Shows usage for the columns for the specified data source, including whether they were used with functions, relations, selects, sorts, and groups, and how many days the column has been unused. Also allows you to drill down to see more information about when the columns were used.
Year column.	Data Access for <i>Data</i> Source during Year	Shows data access information for the specified data source and year, including number of requests, elapsed processing time, CPU seconds, I/Os, and rows returned. Also allows you to drill down on a specific date (month, day, and year) to see request information for that date as well as the actual request syntax.

Data Sources Report by Top N

The following image shows the Data Sources Report by Top n, which shows the top number of data sources used by the user. The number of data sources is specified in the Top number drop-down menu of the Report Filter. The available options for top number are 5, 10, 15, 20, and 25. The default value is 10.

Top 10 Data Sources Server Name: FUENT-PC:8121 Date Range: 08/12/2016 - 09/13/2016

Data Source	Number of Times Used	Total Records	Total Rows	DBMS I/O	Time in DBMS
wfdemo/dimensions/wf_retail_customer	8	11,051	11,051	11,551	2,100
wfdemo/dimensions/wf_retail_geography	8	11,051	11,051	11,551	2,260
wfdemo/dimensions/wf_retail_product	8	11,051	11,051	11,551	1,900
wfdemo/dimensions/wf_retail_store	8	11,051	11,051	11,551	1,920
wfdemo/facts/wf_retail_sales	8	11,051	11,051	11,551	2,020
wfdemo/dimensions/wf_retail_time_lite	7	11,050	11,050	11,550	1,870
wfdemo/wf_retail_lite	7	11,050	11,050	11,550	1,870
hold1	2	572	572	572	0
wm\$hold	2	572	572	1,144	0
ws\$hold	2	572	572	1,144	0
Grand Total:	60	79,071	79,071	83,715	13,940

Errors and Messages

The Errors and Messages report provides an overview of error messages that Resource Management has monitored.

The following image shows the Errors and Messages report.

Issued Errors and Messages Server Name: FUENT-PC:8121 Date Range: 08/12/2016 - 09/13/2016

Errors and Messages	Message Count	First Issued	Last Issued
(FOC1350) ERROR IN SETTING INTERFACES ENVIRONMENT COMMAND. : SET CC-TRANSFORM OFF	1	09/13/2016	09/13/2016
(FOC1400) SQLCODE IS 208 (HEX: 000000D0) XOPEN: 42S02	1	09/13/2016	09/13/2016
(FOC1406) SQL OPEN CURSOR ERROR. : WF_RETAIL_SALES	1	09/13/2016	09/13/2016
(FOC1500) : 'wrd_wf_retail_time_lite', [42000] Statement(s) could not be prepared,	1	09/13/2016	09/13/2016
(FOC1500) : Microsoft SQL Native Client: [42S02] Invalid object name	1	09/13/2016	09/13/2016
(FOC1500) : [] Deferred prepare could not be completed.	1	09/13/2016	09/13/2016

This report has one hyperlink that allows you to drill down to other reports, as described in the following table.

Hyperlink in the:	Report Generated	Description
Errors and Messages column.	Errors and Messages	Shows the procedure and command count by user for the specified error message. You can drill down into procedures that issued the messages or to the command that issues the message, and then to all of the messages issued for the selected procedure.

If you click the hyperlink in that report, you generate a final report which shows the error message in red. Click the red hyperlink to open the All Messages report, which shows all of the messages generated by the selected procedure.

Procedure with Errors

The Procedure with Errors report provides information on error situations by Procedure Name.

The following image shows the Procedure with Errors report.

Procedures - That ran with Errors Server Name: FUENT-PC:8121 Date Range: 08/12/2016 - 09/13/2016

Procedure Name	Error Count	First Execution	Last Execution
wfdemo/test/category year report	1	09/13/2016	09/13/2016
wfdemo/test/country_map	1	09/13/2016	09/13/2016

Hyperlink in the:	Report Generated	Description
Procedure Name column.	Requests Executed with Errors	Provides a list of requests that resulted in an error.

If you click the hyperlink in the Requests Executed with Errors report, the Error Message report opens. This report shows all of the error messages generated.

Domain Usage Report

The summary version of the report displays the domain name, the number of reports from the domain that have been monitored, the number of users that have run domain reports that have been monitored, the average execution time of all of the monitored reports in the domain, and the average CPU time used by all of the monitored reports in the domain. The following image shows the Domain Usage report.

Domain Summary Server Name: FUENT-PC:8121 Date Range: 06/01/2016 - 09/13/2016

Domain Name	Number Monitored Reports	Number Monitored Users	Average Execution Time	Average CPU Time	Rows Returned	Records Processed	Last Accessed
<u>catherine</u>	2	1	00:00:00.2276	00:00:00.1392	700	769	09/13/2016
Grand Total	2	1	00:00:00.2276	00:00:00.1392	700	769	

This report has two hyperlinks that allow you to drill down to additional reports summarized in the following table.

Hyperlink in the:	Report Generated	Description
Domain column.	Domain by Report Summary report	Provides the high level name of the reports that have been monitored, the number of times the report has been run, the average execution time the report used, the average CPU time used, the total number of rows returned by all of the executions, and the number of database records processed by all executions of the report. Also allows you to drill down further to view the report names that have executed.

Change Impact for Column Report

It is very useful to determine in advance which users and applications will be most affected by impending data source schema changes. The Change Impact for Column reports determine how data-source modifications affect users and their applications.

Once you select the report, select the column for which you want to examine information under the Column name drop-down menu and click *View Report*. Any use of a column with that name in any monitored table is reported.

The report window opens, as shown in the following image. This report summarizes the procedures used to access the specified column.

Change Impact Column: ACTUAL Server Name: FUENT-PC:8121 Date Range: 08/12/2016 - 09/13/2016

Application	Procedure Name	Data Source	First Access	Last Access							
wfdemo/test	wf retail validateload	wfrhold1	09/13/2016	09/13/2016							
					wfrhold10	09/13/2016	09/13/2016				
		wfrhold11	09/13/2016	09/13/2016							
		wfrhold12	09/13/2016	09/13/2016							
		wfrhold13	09/13/2016	09/13/2016							
		wfrhold14	09/13/2016	09/13/2016							
		wfrhold15	09/13/2016	09/13/2016							
		wfrhold16	09/13/2016	09/13/2016							
				wfrhold17	09/13/2016	09/13/2016					
						wfrhold18	09/13/2016	09/13/2016			
								wfrhold19	09/13/2016	09/13/2016	
			wfrhold2	09/13/2016	09/13/2016						
								wfrhold20	09/13/2016	09/13/2016	
									wfrhold3	09/13/2016	09/13/2016
									wfrhold4	09/13/2016	09/13/2016
									wfrhold5	09/13/2016	09/13/2016
									wfrhold6	09/13/2016	09/13/2016
					wfrhold7	09/13/2016	09/13/2016				
		wfrhold8	09/13/2016	09/13/2016							
		wfrhold9	09/13/2016	09/13/2016							

This report has two hyperlinks that allow you to drill down to additional reports summarized in the following table.

Hyperlink in the:	Report Generated	Description
Procedure Name column.	Requests from Procedure <i>Procedure</i> <i>Name</i>	Shows a variety of information, including date and time, user, CPU seconds, elapsed execution time, I/Os, and rows returned, about the requests made with the specified procedure. Also allows you to drill down further to see the actual request syntax.
Data Source column.	Column Level for Data Source Data Source	Shows usage for the columns for the specified data source, including whether they were used with functions, relations, selects, sorts, or groups, or if they were never used. Also allows you to drill down to see more information about when the columns were used.

Procedure Benchmarks Report

Benchmarking is a process by which you determine whether your site's service level agreements (SLAs) are being met. Use the Procedure Benchmarks reports to identify response times for requests and other information for analyzing site performance.

From the Procedure Name drop-down menu, select the name of the procedure for which you want to examine information and click *View Report*.

The following image shows the Procedure Benchmarks report appears, as shown in the following image. This report shows information about executions of the specified procedure, including execution date and time, user, CPU and elapsed time, usage type, and client type. Click any of the hyperlinked column headings to sort the report by that column.

		Pro P Ser Date R	rocedure E rocedure: ba ver Name: F ange: 08/12	Senchmar aseapp/prc01 UENT-PC:81 /2010 - 09/12/	ks 21 /2016		
Date	Time	User	Execution Time	CPU Time	Adapter Time	Usage Type	Client Type
2016/09/09	15:14:48.240	IBI\CF12026	00:00:00.0060	00:00:00.0060	00:00:00.0000	Executed	WebConsole

Excessive Resources Report

Some of the most helpful information Resource Analyzer can provide is about which requests are using the most resources. This kind of information helps you identify causes of network and machine-use bottlenecks and enables you to decide what data needs to be indexed, what requests need to be scheduled, or which users need to be educated. The Excessive Resources reports help you with this investigation.

For a request to be included in the report, it need only exceed one of the resource values specified, not all. Specify criteria to limit your report to information on requests that consume resource usage values above a certain average, and click *View Report*.

The following image shows the Excessive Resources report. This report lists the most resource-intensive procedures: those whose average resource usage values, including CPU seconds, elapsed time, I/Os, and rows returned, exceed at least one of the limits you specified. The report also lists the average resource usage values for each procedure. Click any of the hyperlinked column headings to sort the report by that column.

Excessi	ive CPU, Lo Tł	ng-running nresholds: Elap I/Os Server Nam Date Range: (I, Excessive osed Time: 0 Cl s: 0 Rows: 0 ne: FUENT-PC: 08/12/2010 - 09/	e I/O or Larg PU Time: 0 :8121 /12/2016	ge Answ	er Set
Application Name	Procedure Name	Average Execution Time	Average CPU Time	Average Adapter Time	Average I/Os	Average Rows Returned
baseapp	prc01	00:00:00.0020	00:00:00.0020	00:00:00.0000	1	0
	sales by brand	00:00:00.0650	00:00:00.0000	00:00:00.0615	0	12
	testerror	00:00:00.0600	00:00:00.0000	00:00:00.0000	1	0
Total for: bas	eapp	00:00:00.1270	00:00:00.0020	00:00:00.0615	2	12
unknown	Ad-Hoc	00:00:00.2650	00:00:00.0219	00:00:00.0004	0	29
Total for: unk	nown	00:00:00.2650	00:00:00.0219	00:00:00.0004	0	29
Grand Total:		00:00:00.3920	00:00:00.0239	00:00:00.0619	2	41

Hyperlink in the:	Report Generated	Description
Procedure Name column.	Requests from Procedure <i>Procedure</i>	Lists the date and time, user, and resource information for each request of the specified procedure. Also allows you to drill down further to see the actual request syntax.

Long-running Requests Report

Procedures with long running requests use excessive resources, a particular problem when dealing with operational systems. These procedures should be targeted for optimization.

The following image shows the Long-running Requests report. By default, the report is sorted by Average Elapsed Seconds and Average CPU Seconds.

					Lo Se Date I	ng-runn rver Name: Range: 08/	ing Requ FUENT-PC: 12/2010 - 09	ests :8121 (12/2016			
Application Name	Procedure Name	Average Execution Time	Average CPU Time	Average Adapter Time	Average Rows		Average I/Os	Number of Distinct Users	Number of Times Used	First Executed	Last Executed
unknown	Ad-Hoc	00:00:05.3623	00:00:00.2340	00:00:00:0000	140		0	1 💻	3	08/31/2016	09/12/2016

This report has one hyperlink that allows you to drill down to another report, as described in the following table.

Hyperlink in the:	Report Generated	Description
Procedure Name column.	Requests from Procedure: <i>Procedure</i> <i>Nam</i> e	Shows the requests that were executed from the selected procedure. Also allows you to drill down further to see the actual request syntax.

Large Volume Requests Report

Large volume requests are requests that return more data than might be necessary. These requests can be targeted for optimization. You can identify these reports with the Large Volume Requests report.

The following image shows the Large Volume Requests report. By default the report is sorted by the highest Average Rows.

			I	Large Vo Server Na Date Range:	olume me: FUE 08/12/20	Requests NT-PC:8121 16 - 09/13/20	5 016				
Application Name	Procedure Name	Average Execution Time	Average CPU Time	Average Adapter Time	Average I/Os		Average Rows	Number of Distinct Users	Number of Executions	First Execution	Last Execution
unknown	Ad-Hoc	00:00:00.4460	00:00:00.4070	00:00:00.0140	10,000		10,000	1	1	09/13/2016	09/13/2016

Hyperlink in the:	Report Generated	Description
Procedure Name column.	Requests from Procedure Name	Shows the requests that were executed from the selected procedure. Also allows you to drill down further to see the actual request syntax.

Dormant Data Report

Dormant data, or data that is very infrequently accessed, can slow response times on your site. Use the Dormant Data reports to identify which data sources and columns have been less recently or never queried and can be deleted or archived to improve performance.

The following image shows the Dormant Data report. This report shows a variety of information about each data source, such as number of requests, users, resource usage, and access dates. The Days Since Used column indicates the number of days that have passed since the data source was last accessed. By default, the report is sorted by access dates, with those data sources that have no access dates (and are therefore dormant) listed first, and includes all data sources in the application path, including those that aren't being monitored.

Data Source	Data Type	Number Requests	Number Users	First Access	Last Access	Days Since Used
baseapp/dmortmplx	EDA	0	0	Never	Never	0
baseapp/dmpers	EDA	0	0	Never	Never	0
baseapp/dmxdupig_dupi	EDA	0	0	Never	Never	0
baseapp/dmxord	EDA	0	0	Never	Never	0
dimensions/ed type lookup	EDA	0	0	Never	Never	0
dimensions/wf retail age	EDA	0	0	Never	Never	0
dimensions/wf retail currency	EDA	0	0	Never	Never	0
dimensions/wf retail customer	EDA	0	0	Never	Never	0
dimensions/wf retail discount	EDA	0	0	Never	Never	0
dimensions/wf retail education	EDA	0	0	Never	Never	0
dimensions/wf retail employee	EDA	0	0	Never	Never	0
dimensions/wf retail geography	EDA	0	0	Never	Never	0
dimensions/wf retail income	EDA	0	0	Never	Never	0

Dormant Data - Data Source Summary Server Name: FUENT-PC:8121 Date Range: 08/12/2016 - 09/13/2016

Hyperlink in the:	Report Generated	Description
Data Source column.	Dormant Data Summary: Column Level for <i>Data Source</i>	Shows which columns were never accessed in the specified data source, and also lists all accessed columns along with last access time in days. Shows usage for the columns, including whether they were used with functions, relations, selects, sorts, and groups.

Excessive Joins Report

Joining too many tables can be slow and costly. Denormalization can be an effective method for cutting CPU time and improving response times. The Excessive Joins reports help you determine which data is most frequently joined by user requests and help you decide how to plan your de-normalizing strategies.

The following image shows the Excessive Joins report. This report lists the most frequently joined data sources along with the procedures used to join them.

Frequency of use	Application Name	Procedure Name	Data Sources Joined
7	unknown	Ad-Hoc	wfdemo/wf_retail_lite
			wfdemo/facts/wf_retail_sales
			wfdemo/dimensions/wf_retail_customer
			wfdemo/dimensions/wf_retail_geograph
			wfdemo/dimensions/wf_retail_time_lite
			wfdemo/dimensions/wf_retail_store
			wfdemo/dimensions/wf_retail_product
		report1	wfdemo/wf_retail_lite
			wfdemo/facts/wf_retail_sales
			wfdemo/dimensions/wf_retail_customer
			wfdemo/dimensions/wf_retail_geograph
			wfdemo/dimensions/wf_retail_time_lite
			wfdemo/dimensions/wf_retail_store
			wfdemo/dimensions/wf_retail_product
2	unknown	Ad-Hoc	ws\$hold
			wm\$hold

Excessive Joins Server Name: FUENT-PC:8121 Date Range: 08/12/2016 - 09/13/2016

Hyperlink in the:	Report Generated	Description
Procedure Name column.	Requests from Procedure Joining Data source1, Data source2, Data sourcen	Shows a variety of information, including date and time, user, CPU seconds, elapsed execution time, I/Os, and rows returned, about the requests making the specified join. Also allows you to drill down further to see the actual request syntax.

Repeated Aggregations Report

Efficiencies can be created by calculating column values once and storing the results in summary tables for repeated use. This saves the cost of calculating these values every time a report is run.

The following image shows the Repeated Aggregations report. This report shows how many requests used different functions on certain columns of data sources, along with the dates of access. Click any of the hyperlinked column headings to sort the report by that column.

Repeated Aggregations Server Name: FUENT-PC:8121 Date Range: 08/12/2016 - 09/13/2016							
Number of Requests Using		Function	Application Name	Data Source	Column Name	First Used	Last Used
3		<u>SUM</u>	wfdemo/facts	wf_retail_sales	REVENUE_LOCAL	09/13/2016	09/13/2016
1		CNT	wfdemo/dimensions	wf_retail_age	COUNT *	09/13/2016	09/13/2016
				wf_retail_currency	COUNT *	09/13/2016	09/13/2016
				wf_retail_customer	COUNT *	09/13/2016	09/13/2016
				wf_retail_discount	COUNT*	09/13/2016	09/13/2016
				wf_retail_education	COUNT *	09/13/2016	09/13/2016
				wf_retail_employee	COUNT*	09/13/2016	09/13/2016
				wf_retail_geography	COUNT*	09/13/2016	09/13/2016
				wf_retail_income	COUNT *	09/13/2016	09/13/2016
				wf_retail_industry	COUNT *	09/13/2016	09/13/2016
				wf_retail_labor_rate	COUNT *	09/13/2016	09/13/2016
				wf_retail_marital_status	COUNT *	09/13/2016	09/13/2016
				wf_retail_occupation	COUNT *	09/13/2016	09/13/2016
				wf_retail_product	COUNT *	09/13/2016	09/13/2016
				wf_retail_shipping_options	COUNT *	09/13/2016	09/13/2016
				wf_retail_store	COUNT *	09/13/2016	09/13/2016
				wf_retail_time	COUNT *	09/13/2016	09/13/2016
				wf_retail_vendor	COUNT *	09/13/2016	09/13/2016
			wfdemo/facts	wf_retail_labor	COUNT *	09/13/2016	09/13/2016
				wf_retail_sales	COUNT *	09/13/2016	09/13/2016
				wf_retail_shipments	COUNT *	09/13/2016	09/13/2016

Hyperlink in the:	Report Generated	Description
Function column.	Procedure Summary - Frequency of Use Using Function on Data Source.Column Name	Summarizes the procedure types (Application and Ad_Hoc) that have executed the specified function for the specified data source and column, along with statistics about each execution. Also allows you to drill down further to see a list of the cataloged procedures and information about them.

This report has one hyperlink that allows you to drill down to another report, as described in the following table.

Optimization

For WebFOCUS language reports, for example, TABLE FILE, that are run against a relational data source, the drill-down options in this report lead users to a report that will show the original code, which is translated SQL with a drill-down link to any aggregation messages.

All Optimization Messages

Server Name: FUENT-PC:8121 Date Range: 08/12/2016 - 10/21/2016

Optimization Messages	Message Count	First Issued	Last Issued
(FOC2590) AGGREGATION NOT DONE FOR THE FOLLOWING REASON:	20	09/13/2016	10/21/2016
(FOC2594) AGGREGATION IS NOT APPLICABLE TO THE VERB USED	17	09/13/2016	10/21/2016
(FOC2510) FOCUS-MANAGED JOIN SELECTED FOR FOLLOWING REASON(S):	3	10/21/2016	10/21/2016
(FOC2511) DISABLED BY USER	3	10/21/2016	10/21/2016
(FOC2592) RDBMS-MANAGED JOIN HAS BEEN DISABLED	3	10/21/2016	10/21/2016

This report has one hyperlink that allows you to drill down to another report, as described in the following table.

Hyperlink in the:	Report Generated	Description
Optimization Messages column.	All Optimization Messages	Shows the procedure and command count by user for the selected message.

If you drill down on the Command Count hyperlink, a report opens that lists the Command Names. If that column has an active drilldown, you can click that link and open the Original/Translated/Messages report, as shown in the following image.

Original/Translated/Messages Report Procedure: wfdemo/test/prc03 Server Name: FUENT-PC:8121 Date Range: 08/12/2016 - 10/21/2016

(FOC2510) FOCUS-MANAGED JOIN SELECTED FOR FOLLOWING REASON(S):

Original Request	Translated Request	Messages
TABLE FILE WF_RETAIL_PRODUCT SUM CNT.BRAND END	SELECT T1."BRAND" FROM wrd_wf_retail_product T1	Yes

The following columns are available:

Column	Description
Original Request	Shows the original request contents.
Translated Request	Shows the SQL that was sent to the RDBMS, if the original request was for a relational table.
Messages	Indicates if any messages were issued for this request.

If you click the drilldown in the Messages column, the report shows that the reason the request was not optimized is because optimization was disabled by the user, as shown in the following image.

All Optimization Messages Procedure: wfdemo/test/prc03 Server Name: FUENT-PC:8121 Date Range: 08/12/2016 - 10/21/2016

Message Number	Adapter
FOC2510	FOCUS-MANAGED JOIN SELECTED FOR FOLLOWING REASON(S):
FOC2511	DISABLED BY USER
FOC2590	AGGREGATION NOT DONE FOR THE FOLLOWING REASON:
FOC2592	RDBMS-MANAGED JOIN HAS BEEN DISABLED

Candidates for Column Index Report

Indexing columns that are frequently used in selection criteria for reports can improve efficiency. This report identifies columns that should be indexed.

This report shows how often columns were used as selection criteria in requests, as shown in the following image. Click any of the hyperlinked column headings to sort the report by that column.

Candidates for Column Index Server Name: FUENT-PC:8121 Date Range: 06/01/2016 - 09/13/2016								
Application Name		Data Source Name	Column N	Number Distinct ame Users	Number Data Requests	% Total Requests	First Access	Last Access
ibisamp	car		COUNTRY	3	10	.02	2016/07/13	2016/07/21

Bandwidth by Procedure Report

The Bandwidth by Procedure report shows the number of bytes retrieved to the web server for requests. The report analyzes the bandwidth by database type for each year/month combination.

The following image shows the Bandwidth by Procedure report.

Bandwidth Used By Procedure Server Name: FUENT-PC:8121 Date Range: 08/12/2010 - 09/12/2016

Application Name	Procedure Name	Year	Month	Bandwidth*
baseapp	prc01	2016	September	0
	sales_by_brand	2016	September	0
	testerror	2016	September	0
unknown	Ad-Hoc	2016	August	0
			September	0

Resources by Connection

Resources by Connection report shows the resources consumed by the different IP connections.

The following image shows the Resources by Connection report.

Resource Usage by Connection Server Name: FUENT-PC:8121 Date Range: 08/12/2010 - 09/12/2016							
Connection	Connection Time	CPU Time	Adapter Time	I/Os	Rows	Records	Transactions
<u>172.30.232.79</u>	00:00:29.6770	00:00:09.9310	00:00:13.7190	152	3,469	8,336	1,282
Total for: 172.30.232.79	00:00:29.6770	00:00:09.9310	00:00:13.7190	152	3,469	8,336	1,282
172.30.234.147	00:00:02.5570	00:00:01.5560	00:00:00.2330	30	549	1,818	3
Total for: 172.30.234.147	00:00:02.5570	00:00:01.5560	00:00:00.2330	30	549	1,818	3
<u>::1</u>	00:00:02]6080	00:00:00.7640	00:00:00.3450	20	309	2,429	244
Total for: ::1	00:00:02.6080	00:00:00.7640	00:00:00.3450	20	309	2,429	244
Deferred Listener	00:00:00.0380	00:00:00.0000	00:00:00.0000	0	0	0	0
Total for: Deferred Listener	00:00:00.0380	00:00:00.0000	00:00:00.0000	0	0	0	0
Deferred request	00:00:21.6080	00:00:01.8140	00:00:12.5960	0	8	8	0
Total for: Deferred request	00:00:21.6080	00:00:01.8140	00:00:12.5960	0	8	8	0
Scheduler work	00:00:18.9560	00:00:01.1400	00:00:00.0000	0	512	512	420
Total for: Scheduler work	00:00:18.9560	00:00:01.1400	00:00:00.0000	0	512	512	420
cmrpsh000001	00:00:01.2750	00:00:00.1470	00:00:00.0000	0	0	0	0
Total for: cmrpsh000001	00:00:01.2750	00:00:00.1470	00:00:00.0000	0	0	0	0
Grand Total:	00:01:16.7190	00:00:15.3520	00:00:26.8930	202	4,847	13,103	1,949

This report has one hyperlink that allows you to drill down to another report, described in the following table.

Information Builders

Hyperlink in the:	Report Generated	Description
Connection column.	Resources by Connection in <i>Network</i> <i>Nod</i> e	Shows the resources for each connection address.

Cumulative Hourly Use and Peak Transaction/Resource Periods Reports

These graph reports allow you to determine transaction-bottleneck periods of request activity or resource usage by different time periods.

You can filter a report by data source name and/or user name by selecting a valid data source name and/or user name from the drop-down menu, or by selecting *ALL*, to indicate all data sources and all users. The default is *ALL*. After you select your data sources or accept the default, click *View Report*.

Query Volume vs. Resource Utilization Report

Un-tuned queries frequently return more data than necessary. Identify the procedures running these requests and target them for optimization.

This report compares the number of requests to one of four factors of resource usage: CPU seconds, elapsed execution time in seconds, rows returned, and I/Os (all mapped on the vertical axis). This information is shown for each hour of the day, with the hours mapped along the horizontal axis. The values on the vertical axis are cumulative for the time period of the dates you select for Usage Monitoring data for reports. For more information on setting report date ranges, see Set Selection Criteria Dates for Reports.

By default, the first graph that appears shows requests graphed against CPU Time.

The following image shows the Query Volume vs. Resource Utilization Report.





Working With Alerts

Alerts convey important information related to the state of your EUM environment. By creating an alert or scheduling one of the default alerts that come with your EUM environment, you automate reporting when a certain condition is met. An Alert report can be run interactively or by authorized users. Burst capability can send targeted information to the people who need it, so that there is less information for each person to analyze.

Alerts work with all email clients. They are supported on the following mobile devices: iPhone[®], iPad[®], and email enabled mobile phones. Alerts can also be sent to any PC or laptop computer with email capability.

Alerts provide the following:

- ❑ Alert tools. Using Alert Assist, you can quickly set up test conditions (rules) that determine if an Alert condition should be triggered (true). This is called the Alert test. When the Alert test is triggered (true), the Alert result is run. An Alert result can be an existing report procedure or you can create the Alert result using InfoAssist+.
- □ Scheduling flexibility. Optionally, you can schedule an Alert to run as often as every minute to evaluate the Alert test conditions.

In this chapter:

- Components of an Alert
- Edit an Existing Alert
- Schedule an Alert

Components of an Alert

An Alert consists of the following:

- □ Alert test. A procedure that tests whether a specific condition is met. For example, an alert test can measure is a metric goes above or beyond a certain value.
- **Alert result.** A report that is distributed when the alert test triggers a response.

In the Enterprise Usage Monitor domain of your EUM environment, inside the Alerts folder, there are three default alerts that you can view, edit, and schedule. To view an alert, right-click it and click *Edit*. An Alert Assist window opens, displaying the test and result for this alert, as shown in the following image.



If you right-click each report and click *Open*, you can view it in InfoAssist+ and analyze the logic behind the test conditions. For example, the alert test for the Average Responsive Time alert includes two conditions:

- 1. The average response time is greater than 30 seconds.
- 2. The time interval is less than or equal to 5 seconds.

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Audit Procedure Query EUM Auto drill SessionDateTime - -		Filter Average_Response_ TimeInterval Less th	Time Greater than 30 an or equal to 5	<	_	>
Done				🕹 i html	- 🔚 Single Ta	b -

These conditions are created with filters, as shown in the following image.

The result for the Average Responsive Time alert is a simple report that is distributed to the users of your choice at the scheduled times.

Edit an Existing Alert

- 1. Log on to the EUM environment as a manager or developer.
- 2. In the Resources tree, expand the Enterprise Usage Monitor folder, expand the Alerts folder, right-click an alert, and then click *Edit*.

In this example, you are editing the Average Responsive Time alert.

The Alert Assist window opens.

3. Expand the Test node, right-click the test report, and then click Open.

The report opens in InfoAssist+.

4. Right-click a filter, and edit filter parameters. For example, click the average response time constant value and type a value of your choice, as shown in the following image.

Home Data View		۵ 🥹
Ouery Live Data from Query Live Dues Samp Use Samp Create a filtering condition Format New Filter New Expression Data - rmidata X 2	Source le Data Filter ■ Include Renort Nosert Before ▼ Insert After → Group → Ungroup	
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Pressures WHERE TimeInterval Less th Procedures Queries K HearcingD	Type: Constant Value:	•
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 Dimensions Configuration Session Audit Procedure Query EUM Auto drill SessionDat 	Search values	۹
Done		OK Scancel

You can also change the number of conditions, add or remove fields, and further customize existing filters.

- 5. When you are finished applying edits to the test report, click Save and close InfoAssist+.
- 6. Expand the Result node, right-click the result report, and then click Open.

InfoAssist+ opens.

7. Edit the result report to fit your criteria. For example, edit filter conditions to match the test report.

It is customary to expand the result report and make it more detailed, since it is the only report that the users will see. With this in mind, you can add more fields by dragging them from the Data pane to the Query pane. Your edits are visible in the Live Preview section.

- 8. When you are finished applying edits to the result report, click Save and close InfoAssist+.
- 9. Click the Main Menu button in the Alert Assist window, and then click Save As.

The Save As dialog box opens with the My Content folder selected by default.

Note: You can either use the My Content folder for saving the modified content, or you can save it to a new domain.

10. Click Save.

Your updated version of the alert is saved and can be scheduled.

Schedule an Alert

- 1. In the Resources tree, right-click the Alert, point to *Schedule*, and select how the Alert report will be distributed when the Alert test is triggered (true). In this example, you are creating an email distribution.
- 2. Click Email.

The ReportCaster Basic Scheduling tool opens in a new browser window, as shown in the following image.

CAlert Average Response	e Time- Schedule (Basic)	_ G X
RO 🖬 😑 • (0	
Schedule		1
Save & Close Delete	Properties Recurrence Task Distribution Notification Log Reports	Parameters Advanced Task Settings
Dictribution: Email	Snow	Options
Timer	Email Address(s)	
Туре.		
Tu:	Managar	
Profil.		
Subject:	Alert Average Response Time	
Email Information		
 Send the report as inli Send all reports as att 	ne message achments	
	Please see attachment(s).	
Packet Email:	Default (Yes)	
Report Compression		
Add Report to Zip File Zip File Name:		
Zip Minimum Size:	0 KB (Override Default)	

For more information on the Basic Scheduling tool and distribution options, see the *Creating Schedules* topic of the Business User Edition Help.

3. Specify the destination information for where you want the report to be distributed.

For more information on specifying schedule distribution information, see the *Creating Schedules* topic of the Business User Edition Help.

4. Click Task, and then click Alert.

The Alert Options dialog box opens, as shown in the following image.

Alert Options	×
 Automatica Continue A Description 	lly Reset fter Alert
O Delay:	1 hour(s)
	OK Cancel

- 5. Select one of the following Alert Options:
 - ❑ Automatically Reset. This option continues to run the schedule at the specified time and checks to confirm that the Alert test is no longer true before the Alert test is evaluated again. It is best to use this option when you do not want to receive the Alert result until after the exception condition has been addressed and occurs again. For example, when the average response time is greater than 60 seconds, the Alert is triggered. You do not want to receive the report until after the average response time is less than or equal to 60 seconds and then goes beyond 60 seconds again.
 - □ Continue After Alert. This option continues to run the schedule at the specified time and distribute the report each time that the Alert test is true. It is best to use this option when you want to be notified at the interval specified in the schedule that the Alert test is true.
 - Deactivate Schedule After Alert. This option deactivates the schedule after the Alert is triggered. The schedule has to be activated again for the Alert test to run after the Alert is triggered. It is best to use this option for one-time Alert tests. This is the default value.
 - Delay. This option is best used when you want to allow a specific period of time to address the Alert test, but want to be notified again if the Alert test has not been met. You can restart the Alert after a maximum of 99 hours, days, weeks, months, or years.

As you complete the creation of the schedule, remember to consider the burst option to distribute specific report values, instead of the entire report. When a report is burst, the distribution information must be provided in a distribution list, distribution file, or dynamic list for email distribution, and an access list for library distribution. The email and library distribution options are the most effective for Alert reports because of the push versus pull notification through email. For more information on using the burst option in ReportCaster, see the *Creating Schedules* topic of the Business User Edition Help.

- 6. Select the *Properties* tab and type a title and summary for the scheduled report.
- 7. Click Recurrence and specify when and how often to run the schedule.

For more information on Recurrence options, see the *Creating Schedules* topic of the Business User Edition Help.

- 8. If you wish to receive notifications of the Alert distribution, click *Notification* and specify the destination information for where you want the notification to be sent.
- 9. If your Alert uses parameters, select the *Parameters* check box to review and specify parameter values. Ensure that you have the correct Path, Procedure, and Server Name. For more information on specifying parameter values when scheduling a report procedure (FEX), see the *Creating Schedules* topic of the Business User Edition Help.
- 10. Click Save and Close.

The Save As dialog box opens with the My Content folder selected by default.

11. Click Save.

The new schedule appears in the Resources tree, as shown in the following message.



Index

A

accessing columns 83 analysis modes frequency of use 74 historical 68, 72, 77 resource utilization 67, 71 Autoprompt Parameter Prompting 21, 37 setting 21, 37

С

candidates for denormalization reports 89 candidates for summary level databases reports 91 change impact 83 Change Management package 16, 32 importing for Linux 32 importing for Windows 16 changes 83 columns 74, 77, 87 dormant 87 functions 91 common reports 83 candidates for denormalization 89 candidates for summary level databases 91 change impact 83 CPU bound reports 85 dormant data summary 87 I/O bound reports 85

common reports 83 large answer set procedures 85 optimization 92 configuring EUM for Linux 33 for Windows 17 log file 19, 31, 35, 47 Reporting Server for Linux 37 Reporting Server for Windows 22 Resource Management files 25, 40 configuring access to Resource Management log file 41 access to RMLDB 28, 44 Resource Management reports 20, 36 CPU bound reports 85 CPU time 68, 76, 77, 85

D

data sources 74, 76, 77 frequency of use 74 historical 77 data dormant 87 sources 87 denormalization 76, 89 dormant data 76, 87

Index

Е

educating users 76, 85

F

frequency of use 64, 70, 74 functions 91

Η

historical 68, 72, 77

I/O bound reports 68, 74, 76, 77, 83, 85, 89 impact reports 83 indexing 76 installation and configuration 15 installing BUE 15 EUM 15

L

large answer set procedures reports 85

Μ

Main menu 74, 76 Main menu reports historical 68, 72, 77 procedures reports 71 resource utilization 71 Menu Bar 51 modes of analysis frequency of use 64, 70, 74 historical 68, 72, 77 resource utilization 71

0

optimization report 92 over time 77

Ρ

pre-aggregation 76, 91 pre-joining 76, 89 procedures reports 83 frequency of use 64, 70, 74 historical 68, 72, 77 resource utilization 71, 76

R

reports 74, 83 candidates for denormalization 89 candidates for summary level databases 91 change impact 83 common reports 85, 87, 89, 91, 92 CPU bound 85 dormant data summary 87 frequency of use 64, 66, 70, 74 historical 68, 72, 77 I/O bound 85 large answer set procedures 85 Main menu 71

reports 74, 83 optimization 92 procedures reports 71 resource utilization 71 selection criteria 85 requests 83, 85, 89 frequency of use 64, 70, 74 historical 68, 72, 77 resource utilization 71, 76 resource-intensive 71 using functions 91 Resource Tree 53 resource usage 68, 74, 76, 85 requests 71 returned rows 68, 74, 76, 77, 83, 85, 89 rows 74, 76, 83, 85, 89

S

selection criteria 85 server roles 29, 45 access 29 summarization 76, 89, 91

U

usage monitoring data sources 76 reports 83 users 74, 77 educating 85

V

volume 68
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