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Preface

This content describes how to install WebFOCUS Integrated Installation for Enterprise Usage Monitor (EUM) on Windows® and Linux operating systems. This documentation is intended for system administrators with knowledge of Windows and Linux operating systems.

Conventions

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

<table>
<thead>
<tr>
<th>Convention</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>THIS TYPEFACE</strong> or <strong>this typeface</strong></td>
<td>Denotes syntax that you must enter exactly as shown.</td>
</tr>
<tr>
<td><strong>this typeface</strong></td>
<td>Represents a placeholder (or variable), a cross-reference, or an important term.</td>
</tr>
<tr>
<td><strong>underscore</strong></td>
<td>Indicates a default setting.</td>
</tr>
<tr>
<td><strong>Key + Key</strong></td>
<td>Indicates keys that you must press simultaneously.</td>
</tr>
<tr>
<td><strong>{}</strong></td>
<td>Indicates two or three choices. Type one of them, not the braces.</td>
</tr>
<tr>
<td><strong>[]</strong></td>
<td>Indicates a group of optional parameters. None is required, but you may select one of them. Type only the parameter in the brackets, not the brackets.</td>
</tr>
<tr>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td><strong>...</strong></td>
<td>Indicates that you can enter a parameter multiple times. Type only the parameter, not the ellipsis (...).</td>
</tr>
<tr>
<td><strong>.</strong></td>
<td>Indicates that there are (or could be) intervening or additional commands.</td>
</tr>
</tbody>
</table>

Related Publications

Visit our Technical Content Library at [http://documentation.informationbuilders.com](http://documentation.informationbuilders.com). You can also contact the Publications Order Department at (800) 969-4636.
Customer Support

Do you have any questions about this product?

Join the Focal Point community. Focal Point is our online developer center and more than a message board. It is an interactive network of more than 3,000 developers from almost every profession and industry, collaborating on solutions and sharing tips and techniques. Access Focal Point at http://forums.informationbuilders.com/eve/forums.

You can also access support services electronically, 24 hours a day, with InfoResponse Online. InfoResponse Online is accessible through our website, http://www.informationbuilders.com. It connects you to the tracking system and known-problem database at the Information Builders support center. Registered users can open, update, and view the status of cases in the tracking system and read descriptions of reported software issues. New users can register immediately for this service. The technical support section of www.informationbuilders.com also provides usage techniques, diagnostic tips, and answers to frequently asked questions.

Call Information Builders Customer Support Services (CSS) at (800) 736-6130 or (212) 736-6130. Customer Support Consultants are available Monday through Friday between 8:00 a.m. and 8:00 p.m. EST to address all your questions. Information Builders consultants can also give you general guidance regarding product capabilities. Please be ready to provide your six-digit site code number (xxxx.xx) when you call.

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 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.

Information Builders Consulting and Training

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For information on course descriptions, locations, and dates, or to register for classes, visit our website (http://education.informationbuilders.com) or call (800) 969-INFO to speak to an Education Representative.
Chapter 1

Introducing WebFOCUS Enterprise Usage Monitor

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

In this chapter:

- Enterprise Usage Monitor Overview

Enterprise Usage Monitor Overview

WebFOCUS Enterprise Usage Monitor (EUM) is a family of technologies that analyzes system performance and facilitates rapid, secure, wide-scale distribution of enterprise information. It consists of Enterprise Usage Monitor, Resource Analyzer, Resource Governor, and the Workload Distribution Facility.

WebFOCUS Enterprise Usage Monitor (EUM) 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 usage.
The Enterprise Usage Monitor environment is shown in the following image.

EUM requires Resource Management to be installed and 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:

- Visualize 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.
- 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.
Use metadata definitions to analyze and drill down to detailed resource management data, to rapidly identify performance and usage issues at the lowest level.

Offload CPU cycles from production systems to the Enterprise Usage Monitor environment, conserving valuable resources.

Use the Enterprise Resource Management console to run server-based Resource Analyzer reports.

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

**Important:** Do not proceed until Resource Management is installed and operational. You must have an existing installation of Resource Management already configured to perform this procedure. For more information on Resource Analyzer configuration, see the *Resource Analyzer Administrator's and User's Manual* for your release.
WebFOCUS Integrated Installation for Enterprise Usage Monitor

WebFOCUS Integrated Installation for Enterprise Usage Monitor (EUM) installs and configures all required product components to allow you to use Enterprise Usage Monitor for your reporting and analytics needs.

In this chapter:

- WebFOCUS Integrated Installation for Enterprise Usage Monitor Components
- Installing WebFOCUS Integrated Installation for Enterprise Usage Monitor

WebFOCUS Integrated Installation for Enterprise Usage Monitor Components

WebFOCUS Integrated Installation for Enterprise Usage Monitor (EUM) is an all-in-one downloadable installation package. Benefits include:

- WebFOCUS Client and the Reporting Server bundled with Tomcat, Derby, and Java.
- Simplified configuration for email distribution.

Installing WebFOCUS Integrated Installation for Enterprise Usage Monitor

This topic provides the step-by-step instructions that you need to install WebFOCUS Integrated Installation for Enterprise Usage Monitor (EUM) on a Windows or Linux environment.

Note: Since this is a clean installation, there is no migration required.

Installing WebFOCUS Integrated Installation for Enterprise Usage Monitor on a Windows Environment

The following section describes how to install WebFOCUS Integrated Installation for EUM on a Windows environment.

The Enterprise Usage Monitor application components are all available after you install the product. Additional configuration steps required are in Configuring EUM on Windows Platforms on page 49.
WebFOCUS Integrated Installation for Enterprise Usage Monitor System Requirements for Windows

To install WebFOCUS Integrated Installation for EUM, you must have administrator privileges. Additionally, your machine must meet the following system requirements defined in Hardware Requirements and Software Requirements.

Hardware Requirements

- 4 cores, 16 GB or higher for RAM.
- 100 GB of free disk space.

Software Requirements

- 64-bit Version of Windows.
- Supported browsers: Internet Explorer® 11, Microsoft Edge®, Google Chrome™, Mozilla Firefox®.

Procedure: How to Install WebFOCUS Integrated Installation for Enterprise Usage Monitor

1. Download the installation file.
2. Run the installWebFOCUS_WFI8206.exe executable application file. If the file is available in a zip format, extract the contents, and then run the installWebFOCUS_WFI8206.exe executable application file.

Note:

- Java OpenJDK 8 JRE Update 232 (8u232) and Tomcat 8.5.41 are included with the installation.
The installation program includes the following third-party components: Tomcat, Java, and Derby. Later versions or releases of these third-party components, which often contain fixes for security vulnerabilities, may exist at installation time. It is your responsibility to check the vendor sites listed below for updates to newer versions or releases of these third-party components if you intend to use them with Enterprise Usage Monitor. Install the new updates or versions prior to proceeding with the installation. If these components are installed through the WebFOCUS Integrated Installation for EUM program, it is your responsibility to update these components after the installation is completed.

- The latest version of Tomcat is available at https://tomcat.apache.org.
- The latest versions of Java OpenJDK are available from multiple sites, including: https://adoptopenjdk.net/ https://github.com/
- The latest version of Derby is available at https://db.apache.org/derby.

**Tomcat Memory Allocation**

- The Tomcat initial memory pool size (JvmMs) is configured to use 1/8 of the physical memory of the machine. For example, on a machine with 16 GB RAM, the pool size is set to 2124. The maximum memory pool size (JvmMx) is configured to use 1/4 of the physical memory of the machine. For example, on a machine with 16 GB RAM, the pool size is set to 2248.

- You can change the Java memory allocation by running the WFIAppSrvw.exe Tomcat configuration utility, located in the drive:\ibi\WebFOCUS_WFI\tomcat\bin directory, and selecting the Java tab.
The InstallAnywhere installation program opens, as shown in the following image.

3. Choose the appropriate language from the drop-down list and click OK.

The list of languages depends on the regional language settings of the Windows Operating System where WebFOCUS Integrated Installation for EUM is being installed.

**Note:** The language selected will be the language used during the installation program. This language is also used to set the code page of the Reporting Server, which is responsible for data access.

If your data sources are in a different language, you will have to change the code page of the Reporting Server.
The Introduction window opens, as shown in the following image.

WebFOCUS Integrated Installation will guide you through the installation of WebFOCUS.

It is strongly recommended that you quit all programs before continuing with this installation.

Click the ‘Next’ button to proceed to the next screen. If you want to change something on a previous screen, click the ‘Previous’ button.

You may cancel this installation at any time by clicking the ‘Cancel’ button.

4. Click Next to continue.
The License Agreement window opens, as shown in the following image.

5. Select *I accept the terms of the License Agreement*, and then click *Next*.
The Usage Metrics Acceptance License Agreement window opens, as shown in the following image.

6. Select I agree to Information Builders, Inc. collecting usage metrics to enable Information Builders to receive usage metrics on the volume and use of features and functions to be analyzed through an analytics provider.

   **Note:**

   - Usage metrics are available to you upon making a request to Customer_Support@ibi.com.
   - You may opt out at a later time, by turning the Usage Analytics setting off from the WebFOCUS Administration Console.

7. Click Next.
**Note:** If you have an earlier release of WebFOCUS Integrated Installation for EUM installed on your machine, the Choose Install Set window opens, as shown in the following image.
8. From the Choose Install Set window, select the type of installation you want to install:

- To update your existing installation to a new service pack, select *Update* and the existing instance you want to update. You will be prompted to update your installation and to provide Administrator credentials to load new roles and BI Portal page templates, as shown in the following image. In addition, you must manually stop all WebFOCUS Integrated Installation for EUM services, except the WebFOCUS Repository Server service, before beginning the installation program. After typing the Administrator user name and password, continue with step 13.

- To perform a new full installation, select *Full Install*.
The License Code window opens, as shown in the following image.

![License Code Window](image)

9. Type the WebFOCUS Integrated Installation for EUM license code and first four digits of the site code that were provided with your copy of the installation, and then click Next.

   **Note:** You can find the EUM license code on the customer license key sheet, as referenced in the download instructions.
The Choose Destination window opens, as shown in the following image.

10. Type a destination folder for the WebFOCUS Integrated Installation for EUM or accept the default WFI, and then click Next.

   **Note:** If a Windows Security Alert dialog box displays, click *Allow Access.*
The Setup Preferences window opens, as shown in the following image.

11. In the Setup Preferences window, complete the following steps:

a. The installation program preconfigures a default administrator user name of admin, which can be changed and requires that you type a password. You must complete the User Name credentials section to proceed with the installation. In the Password field, type a password, and then confirm your password. These values are passed to the Reporting Server so that there is a common set of administrator credentials.

**Note:** The Administrator user name and password supports ASCII characters from 32 to 126 and cannot include the following characters: caret (^), ampersand (&), percent (%), or double quotation marks (”). Refer to the ASCII character table to determine the characters to use for the password. As a reference, see [https://msdn.microsoft.com/en-us/library/60ecse8t(v=vs.71).aspx](https://msdn.microsoft.com/en-us/library/60ecse8t(v=vs.71).aspx). The password for the user name must be between four (4) and 20 characters. Leading blanks and trailing blanks will be removed.
b. Optionally, select the *Configure email distribution* check box to select the type of Mail Server to be used for report distribution. Valid options are:

- **Google.** This requires a Google Account Name and Password.

  **Note:** Google may block sign-in attempts when delivering reports through WebFOCUS Integrated Installation for EUM. To allow WebFOCUS Integrated Installation for EUM to connect to the Google email account that was configured for email distribution, sign in to the Google account, navigate to *My Account* settings, select *Sign-In & security*, and turn the Allow less secure apps option On.

  For more information, see: [https://www.google.com/settings/security/lesssecureapps](https://www.google.com/settings/security/lesssecureapps)

- **Yahoo.** This requires a Yahoo Account Name and Password.

- **Other.** Select this for all other mail servers. This option requires you to type the host name or IP address for your SMTP mail server.

  Check the *Advanced Configuration* option if your mail server is configured with SSL or TLS and requires authentication.

c. The *Configure WebFOCUS services to start automatically* check box is selected, by default. You can leave this check box selected to keep the services Startup Type as Automatic. This will ensure that the services required to run the product are always running, and will not require that you start the services manually, even if you restart the machine.

  Optionally, you can clear the *Configure WebFOCUS services to start automatically* check box so you can manually start and stop the WebFOCUS Integrated Installation for EUM services from the shortcut options found in the WebFOCUS Integrated Installation group, or through the Windows services program.

12. Click *Next* to continue.
The Configure ports window opens, which indicates the ports used by all product components, as shown in the following image.

Note: By default, Tomcat starts on port 25000. If ports are busy, the next available port is used. You can customize all ports, if necessary, by selecting the Configure ports check box.

13. Click Next to continue.
The Pre-Installation Summary window opens, as shown in the following image.

14. Confirm that the summary information is correct, and then click *Install*. 
The installation process begins, as shown in the following image.
15. When the installation completes, click *Done* to close the installation program, as shown in the following image.

The Reporting Server Console Applications page opens, as shown in the following image.
Note: For the additional configuration steps that are required after installation, see Configuring EUM on Windows Platforms on page 49.

Starting and Stopping WebFOCUS Services

The installation program installs the following services:

- Application Server
- Distribution Server
- Reporting Server
- Repository Server

To view the status of these services, launch your Windows Services program. The following image highlights the WebFOCUS Integrated Installation services as they appear in the Windows Services program. Select a service and use the toolbar to start or stop the service.

### Display name | Service Name
--- | ---
WebFOCUS WFI Application Server | WFIAppSvc
WebFOCUS WFI Distribution Server | WFIDistSvc
WebFOCUS WFI Reporting Server | WebFOCUS WFI Reporting Server
WebFOCUS WFI Repository Server | WFIReposSvc
**Procedure:** How to Start or Stop WebFOCUS Integrated Installation for Enterprise Usage Monitor Services

From the Start menu, under the Information Builders program group, navigate to the WebFOCUS Integrated Installation shortcut.

- Click **Start WebFOCUS Services** to start the WebFOCUS Integrated Installation for EUM services.

- Click **Stop WebFOCUS Services** to stop the WEBFOCUS Integrated Installation for EUM services.

To stop or start an individual WebFOCUS Integrated Installation for EUM service, use the Windows Services program as described earlier in this section.

**Uninstalling WebFOCUS Integrated Installation for Enterprise Usage Monitor**

If you want to remove an existing WebFOCUS Integrated Installation for EUM and want to perform a full installation of a newer release, you can run the uninstall program.

**Procedure:** How to Preserve Your Data

The following steps can be performed if you want to preserve your data and perform a new installation, if you need to move your data to another location, or if an upgrade installation fails and you need to perform a new full installation.

1. Back up the WebFOCUS Repository Server and Reporting Server application folders to a different location on your machine. By default, these are located in the following folders:
   - drive:\ibi\WebFOCUS_WFI\derby\  
   - drive:\ibi\WebFOCUS_WFI\apps\  

2. Uninstall WebFOCUS Integrated Installation for EUM. You can uninstall WebFOCUS Integrated Installation for EUM from the Start menu, or manually, as described in **How to Manually Uninstall WebFOCUS Integrated Installation for EUM Components** on page 33.

**Procedure:** How to Restore and Move Backed Up Data

1. Install WebFOCUS Integrated Installation for EUM.

2. After the installation program is complete, do the following:
   a. Manually stop the repository server service.
   b. Replace the new repository server and Reporting Server application folders, using the backup directories that you made in step 1 of **How to Preserve Your Data** on page 31.
c. Restart the Repository Server service.

**Procedure:** How to Uninstall WebFOCUS Integrated Installation for EUM

1. From the Start menu, under the Information Builders Program group, navigate to the WebFOCUS Integrated Installation Uninstall shortcut.
2. Click *Uninstall*.
   
   The InstallAnywhere installation program opens.
3. In the Uninstall WebFOCUS Integrated Installation window, click *Uninstall*.
   
   The installation program begins and uninstalls the WebFOCUS Integrated Installation for EUM components.

**Troubleshooting WebFOCUS Integrated Installation for EUM**

If you are unable to launch WebFOCUS Integrated Installation for EUM, ensure that all services are running. If they are not, do the following:

- Stop all services.
- Restart the services.
- Restart WebFOCUS Integration Installation for EUM using the *Run WebFOCUS* shortcut available in the WebFOCUS Integrated Installation folder, under the Information Builders program group.

**Port Assignment**

By default, ports in the range of 25000 to 25040 are checked for availability. If the installation program detects that no ports in that range are available, it then increases the range by 4 and checks again for availability. For example, if ports 25000 to 25040 are unavailable, ports 25004 to 25044 are then checked.

**Default Port Assignment.**

- Ports 25000 to 25003 are used by the application server.
- Port 25010 is used by the repository server.
- Ports 25020 to 25023 and port 25040 are used by the Reporting Server.
- Port 25030 is used by the Distribution Server.
WebFOCUS Integrated Installation for Enterprise Usage Monitor Log Files

WebFOCUS Integrated Installation for EUM creates a log file in the following location for Windows:

```
drive:\Users\user_id\WebFOCUS_Integrated_Installation_Install_date_time.log
drive:\Users\user_id\WebFOCUS_WFI_Debug_date_time.log
```

where:

- `user_id` is your Windows user ID.
- `date_time` is the date and time the log file was created.

These log files provide information about WebFOCUS Integrated Installation for EUM. If you contact Customer Support Services with an installation problem, have these files available.

Troubleshooting the Uninstall Process

If you choose to uninstall WebFOCUS Integrated Installation for EUM, and the uninstall process fails, you can follow one of the procedures in this section to clean up your machine before reinstalling the product.

Before performing one of the following procedures, ensure that you have uninstalled WebFOCUS Integrated Installation for EUM, as described in How to Uninstall WebFOCUS Integrated Installation for EUM on page 32.

**Procedure: How to Manually Uninstall WebFOCUS Integrated Installation for EUM Components**

If the WebFOCUS Integrated Installation for EUM uninstall process fails, you can do the following to manually cleanup the remaining WebFOCUS Integrated Installation for EUM components on your machine.

1. Stop any running WebFOCUS Integrated Installation for EUM services on the system, as detailed in How to Start or Stop WebFOCUS Integrated Installation for Enterprise Usage Monitor Services on page 31.
2. Remove any remaining services from your machine.
   a. Locate the existing WebFOCUS Integrated Installation for EUM services. To get the service name, right-click the service in the Windows Services program and select Properties. The Properties window opens, where you can right-click the service name and click Copy, as shown in the following image.

![WebFOCUS WFI Application Server Properties](image)

b. To remove a service, open the Command Prompt as an Administrator and issue the following command:

   \[ \text{sc delete "service name"} \]

   where:

   \[ service name \]

   Is the name of the service you are manually deleting. For example:

   \[ C:\sc delete "WFIAppSvc" \]

   **Note:** The service name must be enclosed in double quotation marks (" ") if it contains a space.

   Repeat this for the remaining services.

3. Remove files from disk, except for the Reporting Server application folders and other folders containing application data, in case you need to save this data for later use.
For example, if WebFOCUS Integrated Installation for EUM is installed on the C:\ drive, remove all folders under C:\ibi\WebFOCUS_WFI\, except for the following folders:

- C:\ibi\WebFOCUS_WFI\apps\n- C:\ibi\WebFOCUS_WFI\Derby\n
4. From the Start menu, under the Information Builders program group, right-click the WebFOCUS Integrated Installation folder, select More, select Open file location, and then delete the folder.

5. Launch the Windows Registry Editor, and remove the following registry keys.

- HKEY_LOCAL_MACHINE\SOFTWARE\Information Builders\WebFOCUS
- HKEY_LOCAL_MACHINE\SOFTWARE\Information Builders\Derby\WFIReposSvc
- HKEY_LOCAL_MACHINE\SOFTWARE\Information Builders\WebFOCUS WFI Reporting Server
- HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Information Builders\ReportCaster\WFIDistSvc
- HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Apache Software Foundation\Procrun 2.0\WFIAppSvc

### Installing WebFOCUS Integrated Installation for Enterprise Usage Monitor on a Linux Environment

The following section describes how to install WebFOCUS Integrated Installation for EUM on a Linux environment. WebFOCUS Integrated Installation for EUM is supported on:

- Intel Linux - Kernel-2.6.32-glibc-2.6 and higher x86_64 64-bit
  
  **Note:** Java OpenJDK 8 JRE 232 (8u232) and Tomcat 8.41 are included with the WebFOCUS Integrated Installation product installation.

- Intel Linux - Kernel-3.10.0-glibc-2.17 and higher x86_64 64-bit
  
  **Note:** Java OpenJDK 8 JRE 232 (8u232) and Tomcat 8.5.32 are included with the WebFOCUS Integrated Installation product installation.
The installation program includes the following third-party components: Tomcat, Java, and Derby. Later versions or releases of these third-party components, which often contain fixes for security vulnerabilities, may exist at installation time. It is your responsibility to check the vendor sites listed below for updates to newer versions or releases of these third-party components if you intend to use them with WebFOCUS Integrated Installation for EUM. Install the new updates or versions prior to proceeding with the WebFOCUS Integrated Installation for EUM installation. If these components are installed through the WebFOCUS Integrated Installation for EUM program, it is your responsibility to update these components after the installation is completed.

- The latest version of Tomcat is available at https://tomcat.apache.org.
- The latest versions of Java OpenJDK are available from multiple sites, including:
  - https://adoptopenjdk.net/
  - https://github.com/
- The latest version of Derby is available at https://db.apache.org/derby.

WebFOCUS Integrated Installation for Enterprise Usage Monitor System Requirements on a Linux Environment

The following section describes the system requirements for installing WebFOCUS Integrated Installation for EUM on a Linux environment.

Installation Prerequisites

The following are installation prerequisites for installing WebFOCUS Integrated Installation for EUM on Linux:

- When installing WebFOCUS Integrated Installation for EUM on Linux machines, if the unzip application is not found, the following message displays:
  
  Invalid unzip command found.

  This is generated by the installation program and does not prevent the installation from proceeding and completing successfully.

- WebFOCUS Integrated Installation for EUM requires a minimum of 5GB of available disk space to successfully install on the target system.

- An additional 8GB of required disk space is used during the installation of the product. This temporary use of disk space will be removed at the end of the installation.

  If the temp directory on the host does not meet the minimum size requirements, the InstallAnywhere environment variable IATEMPDIR can be set to use an alternate directory.
You may specify an alternate /tmp location by setting the following environment variable:

```bash
IATEMPDIR=/large_tmp
export IATEMPDIR
```

**System Resource Limits**

The operating system provides ways of limiting the amount of resources that can be used. These limits can affect the installation process.

Use the `ulimit` command to set process memory-related resource limits for your session.

The WebFOCUS Integrated Installation for EUM program requires `ulimit` to be set to 8192.

Limits can be **hard** or **soft**. Hard limits are set by the root user. Only the root user can increase hard limits, although other users can decrease them. Soft limits can be set and changed by other users, but they cannot exceed the hard limits.

To view the current limits, type the following command:

```bash
ulimit -a
```

Use the `/etc/security/limits.conf` file to store `ulimit` settings. Changes to this file should be made by a system administrator.

**Installing WebFOCUS Integrated Installation for Enterprise Usage Monitor Using Console Mode**

The following section describes how to install WebFOCUS Integrated Installation for EUM using Console Mode.

**Procedure:** How to Install WebFOCUS Integrated Installation for Enterprise Usage Monitor Using Console Mode

1. Download the self extracting installation program, `installWebFOCUS_WFI8206.bin`.
2. Apply the permissions necessary for the owner of the file to execute the installation by using the following command:
   ```bash
   chmod u+x installWebFOCUS_WFI8206.bin
   ```
3. Run the installation program using the following command:
   ```bash
   ./installWebFOCUS_WFI8206.bin -i console
   ```
   The Introduction to WebFOCUS Integrated Installation prompt displays.
4. Press Enter to continue.
   The License Agreement prompt displays.
5. Read the License Agreement. Press Enter after each screen until you receive the License Agreement Acceptance prompt.

6. Type Y to accept the terms of the agreement and press Enter to continue.

7. Type Y to enable Information Builders to receive usage metrics on the volume and use of features and functions to be analyzed through an analytics provider.

   **Note:**

   - Usage metrics are available to you upon making a request to Customer_Support@ibi.com.
   - You may opt out at a later time, by turning the Usage Analytics setting off from the WebFOCUS Administration Console.

8. Press Enter to continue.

   The Choose Install Type prompt displays.

9. Type 2 to perform a full installation of WebFOCUS Integrated Installation for EUM.

10. Press Enter to continue.

    The License Code prompt displays.

11. Type the WebFOCUS Integrated Installation for EUM license code (17 digits).

    This code was sent to you as part of the email message that contained the download link for the software.

    You are prompted to enter the site code.

12. Type the WebFOCUS Integrated Installation for EUM site code (4 digits).

    This code was sent to you as part of the email message that contained the download link for the software.

13. Press Enter to continue.

    The Choose Folder prompt displays.

14. Accept the default destination folder for the installation. If you want to install WebFOCUS Integrated Installation for EUM in a different folder, type the path to the location where you want to install the software.

    **Note:** Spaces are not allowed in the destination path.

15. Press Enter to continue.

    The Setup Preferences prompt displays. You are prompted to enter the WebFOCUS Integrated Installation for EUM Administration credentials.
16. Type a user name and password to use as the Administration ID.

   **Note:** The Administrator user name and password supports ASCII characters from 32 to 126 and cannot include the following characters: caret (^), ampersand (&), percent (%), or double quotation marks ("). Refer to the ASCII character table to determine the characters to use for the password. As a reference, see https://msdn.microsoft.com/en-us/library/60ecse8t(v=vs.71).aspx. The password for the user name must be between four and 20 characters. Leading blanks and trailing blanks will be removed.

   The Configure email distribution prompt displays.

17. Optionally, type Y to choose the type of Mail Server to be used for report distribution. Valid options are:

   - **Google.** This requires a Google Account Name and Password.

      **Note:** Google may block sign-in attempts when delivering reports through WebFOCUS Integrated Installation for EUM. To allow WebFOCUS Integrated Installation to connect to the Google email account that was configured for email distribution, sign in to the Google account, navigate to My Account settings, select Sign-In & security, and turn the Allow less secure apps option On.

      For more information, see:

      https://www.google.com/settings/security/lesssecureapps

   - **Yahoo.** This requires a Yahoo Account Name and Password.

   - **Other.** Select this for all other mail servers. This option requires you to type the host name or IP address for your SMTP mail server. You can also specify if your mail server is configured with SSL or TLS and requires authentication.

18. Press Enter to continue.

19. Verify that the Pre-Installation Summary information is correct, and press Enter to continue.

   The installation begins.

   During installation, the activity window indicates which installation program tasks are being performed.

   When installation is complete, a summary is provided displaying the servers that were installed and the ports that have been assigned.

**Configuring Java Memory Allocation for the Application Server**

For Linux installations, the default Tomcat Java memory configuration is set to use an initial Java heap size of 1024MB and a maximum Java heap size of 2048MB.
These settings are located in the `/ibi/WebFOCUS/tomcat/bin/catalina.sh` file. For example:

```
JAVA_OPTS="-Xms1024m -Xmx2048m -Djava.awt.headless=true"
```

These settings are applied, by default, to provide better product performance.

**Note:**

- Ensure that the memory allocated on the machine is available. If the memory is not available, the application server will not start.

- You can adjust the memory allocation by updating the `catalina.sh` file or by setting the Java heap size, using the `_JAVA_OPTIONS` environment variable.

The following is an example of setting Java through the `_JAVA_OPTIONS` environment variable:

```
_JAVA_OPTIONS='"-Xms1024m -Xmx2048m"'
export _JAVA_OPTIONS
```

This will override the memory setting in the `catalina.sh` file and must be issued prior to starting Tomcat.

**Reporting Server Memory Allocation**

- The default Reporting Server memory allocation is set to half the amount of physical memory on the machine.

- The `ServerMainHeapSize` parameter specifies the size (in MB) of the main memory heap.

**Launching WebFOCUS Integrated Installation for Enterprise Usage Monitor**

To launch WebFOCUS Integrated Installation for EUM, type the following:

```
http://host:port/ibi_apps/
```

**Note:** Enter the application server port number when using this command to start WebFOCUS Integrated Installation for EUM. The application server port number is the lowest port number displayed in the summary at the end of the WebFOCUS Integrated Installation for EUM.

The default port for the WebFOCUS Integrated Installation for EUM application server is 25000. It is listed during the end of the installation and also available in the installation log file.

Installation log files are under the user home directory. An example of an installation log file is shown in the example below:

```
/$HOME/WebFOCUS_Integrated_Installation_Install_date_time.log
/$HOME/WebFOCUS_WFI_Debug_date_time.log
```
where:

*date_time*

Is the date and time the log file was created.

These log files provide information about the WebFOCUS Integrated Installation for EUM. If you contact Customer Support Services with an installation problem, have these files available.

**Running WebFOCUS Integrated Installation for Enterprise Usage Monitor Servers Manually**

The following commands are used to manually start and stop the required WebFOCUS Integrated Installation for EUM servers.

**Note:** The `/home/user/` path depends on your installation.

**Starting Servers**

You must start the servers in the following order:

- Repository Server
- Application Server
- Distribution Server
- Reporting Server

To start the WebFOCUS Repository Server, run:

```
nohup /home/user/ibi/WebFOCUS_WFI/derby/bin/start.sh &
```

To start the WebFOCUS Integrated Installation for EUM Application Server, run:

```
/home/user/ibi/WebFOCUS_WFI/tomcat/bin/startup.sh
```

To start the WebFOCUS Integrated Installation for EUM Distribution Server, run:

```
nohup /home/user/ibi/WebFOCUS_WFI/WebFOCUS/ReportCaster/bin/schbkr &
```

To start the WebFOCUS Integrated Installation for EUM Reporting Server, run:

```
/home/user/ibi/WebFOCUS_WFI/srv/wfs/bin/edastart -start
```

**Stopping Servers**

You must stop the servers in the following order:

- Application Server
Distribution Server

Repository Server

Reporting Server

To stop the WebFOCUS Integrated Installation for EUM Application Server, run:

/home/user/ibi/WebFOCUS_WFI/tomcat/bin/shutdown.sh

To stop the WebFOCUS Integrated Installation for EUM Distribution Server, run:

/home/user/ibi/WebFOCUS_WFI/WebFOCUS/ReportCaster/bin/stopit

To stop the WebFOCUS Repository Server, run:

/home/user/ibi/WebFOCUS_WFI/derby/bin/stop.sh

To stop the WebFOCUS Integrated Installation for EUM Reporting Server, run:

/home/user/ibi/WebFOCUS_WFI/srv/wfs/bin/edastart -stop

Creating Shell Scripts to Start and Stop Servers

You can create shell scripts that run the following commands to start and stop servers:

Start Servers

nohup /home/user/ibi/WebFOCUS_WFI/derby/bin/start.sh &
sleep 5
/home/user/ibi/WebFOCUS_WFI/tomcat/bin/startup.sh
nohup /home/user/ibi/WebFOCUS_WFI/WebFOCUS/ReportCaster/bin/schbkr &
/home/user/ibi/WebFOCUS_WFI/srv/wfs/bin/edastart -start

Stop Servers

/home/user/ibi/WebFOCUS_WFI/tomcat/bin/shutdown.sh
/home/user/ibi/WebFOCUS_WFI/WebFOCUS/ReportCaster/bin/stopit
/home/user/ibi/WebFOCUS_WFI/derby/bin/stop.sh
/home/user/ibi/WebFOCUS_WFI/srv/wfs/bin/edastart -stop

Note:

- Adjust the paths based on your installation directories.
- The sleep 5 command adds a wait period to ensure Derby has started.
Updating WebFOCUS Integrated Installation for Enterprise Usage Monitor

You can update an earlier release of WebFOCUS Integrated Installation for EUM using the following steps.

**Procedure: How to Update WebFOCUS Integrated Installation for Enterprise Usage Monitor**

1. Manually stop all WebFOCUS Integrated Installation for EUM servers, including the Application Server, Repository Server, Distribution Server, and Reporting Server.

2. Ensure that all ports that are used by WebFOCUS Integrated Installation for EUM processes are stopped. You can run a command, such as `netstat`, to check the ports.

   **Note:** If the ports are busy, run a command, such as `lsof`, to identify what processes are still running, and stop those processes. Before you proceed, you must rerun the `netstat` command.

3. Download the self extracting installation program, `install.bin`.

4. Apply the permissions necessary for the owner of the file to execute the installation by using the following command:

   ```bash
   chmod u+x installWebFOCUS_WFI8206.bin
   ```

5. Press Enter to continue.

6. Run the installation program using the following command:

   ```bash
   ./installWebFOCUS_WFI8206.bin -i console
   ```

   The Introduction to WebFOCUS Integrated Installation prompt displays.

7. Read the License Agreement. Press Enter after each screen until you receive the License Agreement Acceptance prompt.

8. Type `Y` to accept the terms of the agreement and press Enter to continue.

9. Type `Y` to enable Information Builders to receive usage metrics on the volume and use of features and functions to be analyzed through an analytics provider.

   **Note:**

   - Usage metrics are available to you upon making a request to `Customer_Support@ibi.com`.
   - You may opt out at a later time, by turning the Usage Analytics setting off from the WebFOCUS Administration Console.

10. Press Enter to continue.

    The Choose Install Type prompt displays.
11. Type 1 to update an existing WebFOCUS Integrated Installation for EUM to a new Service Pack level.

12. Press Enter to continue.

13. Type the path to the existing installation you want to update.

14. Press Enter to continue.

15. Verify that the Pre-Installation Summary information is correct, and press Enter to continue.

   The installation begins.

   During installation, the activity window indicates which installation program tasks are being performed.

16. Clear the Tomcat cache, all folders under:

   /home/user/ibi/WebFOCUS_WFI/tomcat/work/Catalina/localhost/


18. Start the WebFOCUS Repository Server by running:

   nohup /home/user/ibi/WebFOCUS_WFI/derby/bin/start.sh &

19. Run the following script file, if this step failed to run during the installation update process.

   /home/user/ibi/WebFOCUS_WFI/WebFOCUS/utilities/WFReposUtil/update_repos.sh

   This script will make updates to the WebFOCUS Integrated Installation repository that are required to load new roles and BI Portal page templates.

   You are prompted for WebFOCUS Integrated Installation for EUM Administrator credentials.

20. Start the other servers:

   /home/user/ibi/WebFOCUS_WFI/tomcat/bin/startup.sh
   nohup /home/user/ibi/WebFOCUS_WFI/WebFOCUS/ReportCaster/bin/schbkr &
   /home/user/ibi/WebFOCUS_WFI/srv/wfs/bin/edastart -start

   The upgrade is now complete and you can use the software.
Uninstalling WebFOCUS Integrated Installation for Enterprise Usage Monitor

To uninstall WebFOCUS Integrated Installation for EUM, delete the /home/user/ibi/WebFOCUS_WFI/ directory or run the uninstall program using the following command:

```
/home/user/ibi/WebFOCUS_WFI/Uninstall/Uninstall
```

Configuring for Email Distribution

An email server is required for email distribution and notifications. The following procedures provide the steps for configuring the supported mail servers.

**Procedure:** How to Configure the Mail Server

1. Sign in to WebFOCUS using the Administrator account.
2. From the WebFOCUS Integrated Installation Welcome page, click **Administrator**, click **Administration**, and then click **Administration Console**. From the Administration Console, click the **ReportCaster** tab.
   
   or

   From the WebFOCUS Integrated Installation Welcome page, click **Administrator**, click **Tools**, and then click **ReportCaster Status**.

3. From the ReportCaster Console, click the **Configuration** option on the ribbon.
4. Select the **Email Distribution** folder.
5. Type the name of your mail server in the Mail Server text box.

In addition, if your mail server uses a secure connection or requires authentication, select the appropriate options and type the required credentials. You need to save your configuration changes and restart ReportCaster to make the changes effective.

If you use Google as your email server, see *How to Configure Google as the Email Server* on page 46.

If you use Yahoo as your email server, see *How to Configure Yahoo as the Email Server* on page 47.
**Procedure: How to Configure Google as the Email Server**

1. Type the name of the Google SMTP Server in the Mail Server text box, as shown in the following image.

![Image of Google SMTP Server configuration](image)

2. Select the **This Server Requires a Secure SSL Connection** check box.

   **Note:** Do not select the **This Server Requires a Secure TLS Connection** check box.

3. Select the **This Server Requires Authentication** check box.

4. Click the **File Open** button to open the SMTP User ID/Password dialog box.

5. Type your Google account name.

6. Type the password for this account.

7. Confirm the password for this account.

8. Click **OK** to close the dialog box.

9. Click **Save** in the Manage Configuration group on the ribbon.

10. Click **Restart** in the Manage Configuration group on the ribbon.
Procedure: How to Configure Yahoo as the Email Server

1. Type the name of the Yahoo SMTP Server in the Mail Server text box, as shown in the following image.

2. Select the *This Server Requires a Secure SSL Connection* check box.

3. Select the *This Server Requires a Secure TLS Connection* check box.

4. Select the *This Server Requires Authentication* check box.

5. Click the *File Open* button to open the SMTP User ID/Password dialog box.

6. Type your Yahoo account name.

7. Type the password for this account.

8. Confirm the password for this account.

9. Click OK to close the dialog box.

10. Click Save in the Manage Configuration group on the ribbon.

11. Click Restart in the Manage Configuration group on the ribbon.
The following topics cover the steps to configure EUM on the Client and Server on Windows platforms.

In this chapter:

- Configuring EUM on the Reporting Server for Windows
- Configuring EUM on the Client for Windows
- Enabling Logging on a Windows Environment Mid-Tier Activity
- Working With the Resource Management Shadow Log
- Autoprompt Parameter Prompting

Configuring EUM on the Reporting Server for Windows

This section covers the EUM configuration steps to connect your Resource Analyzer log activity transactions to use in EUM.

Setting Up Resource Management Log Files for EUM Access

The key data in EUM comes from the Resource Management system. Resource Management has two important outputs used for capturing all of the monitoring data. It is necessary to connect both of these outputs to EUM.

- Log files
- Archive repository

The following table lists the two portals for each file type. They can be viewed at the same time, or separately.

<table>
<thead>
<tr>
<th>Type</th>
<th>File Structure</th>
<th>Portal Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>Live</td>
<td>Log files (rmldataxx.log)</td>
<td>□ Live EUM Portal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ Live Visualizations</td>
</tr>
<tr>
<td>Type</td>
<td>File Structure</td>
<td>Portal Names</td>
</tr>
<tr>
<td>----------</td>
<td>-----------------------------------------------------</td>
<td>-----------------------------------</td>
</tr>
</tbody>
</table>
| History  | Archive repository DBMS (FOCUS or relational DBMS of your choice) | ☐ History EUM Portal
                      ☐ History Visualizations          |

**Procedure: How to Configure Access to the Log Files**

The log file or files generated from the WebFOCUS environment where Resource Management is configured and running will be connected to the EUM environment for access.

The best practice is to set up a network share to read the Resource Analyzer log files in the WebFOCUS server or servers running Resource Analyzer. EUM reads them directly from the Resource Analyzer server. It also provides true real time access into instant activity. There is a refresh timer on the performance dashboards to get continuous updated information.

**Procedure: How to Add the live and history Application Folders to the Application Path**

The live and history application folders were created during the installation. They need to be added to the application path.

1. Use the gears icon and select *Application Path*, as shown in the following image.

![Gear icon with Application Path selected](image-url)
The panel shows the two folders on the left side, as shown in the following image.

2. Drag both folders from the left side to the Application Path in the right panel. The order does not matter since the application uses the full path name.
3. Click Save.
4. On the confirmation dialog box, click OK. The window refreshes and the history and live folders display.

**Procedure: How to Configure RMLFILEDEFS.FEX**

The following procedure describes how to update RMLFILEDEFS.FEX in the app/live folder to use the directory where the log files are located.

1. On the EUM Reporting Server, click the *Folder* icon.
2. Navigate to the *app/live* folder and expand the folder.
3. Right-click the *RMLFILEDEFS.FEX* procedure, and select *Open*.
4. Change line 4, `-SET &FILELOC = 'C:\data\active';` to point to your folder location.
5. Issue a net use command to map the remote location directly with credentials, for example:

   ```
   !net use drive: \server\sharepath Password /USER:login
   -RUN
   -SET &FILELOC = 'drive:\';
   -RUN
   ```

   where:

   ```
   drive
   ```

   Is the drive where the Resource Management log files are located.
server\sharepath

Is the folder path where the log files reside.

6. You can test the procedure by clicking the Run button.
   
   You will see each log file listed in the output.

7. Save the procedure and close the tab.

**Note:** If you are going to monitor multiple Resource Management servers, add additional network shares.

**Procedure:** How to Execute the RMLFILEDEFS.FEX to Dynamically FILEDEF Log Files

The following procedure describes how to execute the rmlfiledefs.fex file to dynamically FILEDEF all .log files in the network share folder you have just set up.

1. Sign in to the EUM Reporting Server as admin.

2. Click the Workspace button on the sidebar.

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

![Workspace](image.png)

4. Add the following line to the end of the file:

   EX live/rmlfiledefs.fex DISPLAY=NO
5. Click the Save disk icon to save the changes.

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

On the machine where Resource Management is configured, copy the following Master File profiles. These files are created in the Resource Management application, configured there, and copied to EUM to match up the environments.

**For Release 7.7 Version 08, Release 7.7 Version 07, and Release 7.7 Version 06:**

```
drive1:\ibi\srvxx\server\catalog\rm\rmpfex
drive1:\ibi\srvxx\server\catalog\rm\rmldb.fex
drive1:\ibi\srvxx\server\catalog\rm\rmldata.fex
```

to the path where you installed EUM, for example:

```
drive2:\ibi\WebFOCUS\srv\wfs\catalog\rm\rmpfex
drive2:\ibi\WebFOCUS\srv\wfs\catalog\rm\rmldb.fex
drive2:\ibi\WebFOCUS\srv\wfs\catalog\rm\rmldata.fex
```

**For Release 7.7 Version 05M:**

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

to:

```
drive2:\ibi\WebFOCUS\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 EUM is installed.

Configuring EUM to Use the Resource Management Metadata Files

EUM is based on WebFOCUS Release 8206. 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 Point to the Resource Management Files

All release metadata supported with EUM is in baseapp/weum. Find the one in the table below using the Resource Analyzer release and move the appropriate .mas and .acx to the live and history application folders.

TIP: If you copy using the Reporting Server Console Applications window, the Master File (.mas) will bring along the Access File (.acx). Only one copy step is needed.

<table>
<thead>
<tr>
<th>Resource Analyzer Release</th>
<th>Copy from apps/baseapp/weum</th>
<th>Copy to</th>
<th>Copy from apps/baseapp/weum</th>
<th>Copy to</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.0.xx</td>
<td>rmldata80.mas/acx</td>
<td>apps/live</td>
<td>rmldb80.mas/acx</td>
<td>apps/history</td>
</tr>
<tr>
<td>8.1.xx</td>
<td>rmldata81.mas/acx</td>
<td>apps/live</td>
<td>rmldb81.mas/acx</td>
<td>apps/history</td>
</tr>
<tr>
<td>8.2.01</td>
<td>rmldata82.mas/acx</td>
<td>apps/live</td>
<td>rmldb82.mas/acx</td>
<td>apps/history</td>
</tr>
<tr>
<td>8.2.02</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.2.03</td>
<td>rmldata8203.mas/acx</td>
<td>apps/live</td>
<td>rmldb8203.mas/acx</td>
<td>apps/history</td>
</tr>
<tr>
<td>8.2.04</td>
<td>rmldata8204.mas/acx</td>
<td>apps/live</td>
<td>rmldb8204.mas/acx</td>
<td>apps/history</td>
</tr>
<tr>
<td>8.2.05</td>
<td>rmldata8205.mas/acx</td>
<td>apps/live</td>
<td>rmldb8205.mas/acx</td>
<td>apps/history</td>
</tr>
<tr>
<td>Resource Analyzer Release</td>
<td>Copy from apps/baseapp/weum</td>
<td>Copy to</td>
<td>Copy from apps/baseapp/weum</td>
<td>Copy to</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-----------------------------</td>
<td>---------</td>
<td>-----------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>8.2.06</td>
<td>rmldata8206.mas/acx</td>
<td>apps/live</td>
<td>rmldb8206.mas/acx</td>
<td>apps/history</td>
</tr>
<tr>
<td>8.2.07</td>
<td>rmldata8207.mas/acx</td>
<td>apps/live</td>
<td>rmldb8207.mas/acx</td>
<td>apps/history</td>
</tr>
</tbody>
</table>

1. Expand the baseapp folder and click the weum folder to show the contents in the right panel.

2. Right-click the rmldataxx file that matches your release from the above table and select Copy.

3. Right-click the live folder and select Paste.

4. Click the live folder to refresh.

5. Right-click the copied Master File and select Rename. Rename rmldataxx to rmldata, removing the release number.

6. Repeat step 3 for the history Master File. Go back to the weum folder contents and locate the rmldbxx file that matches in the above table.

7. Right-click the rmldbxx file and select Copy.

8. Right-click the history folder and select Paste.

9. Click the history folder to refresh.

10. Right-click the copied Master File and select Rename. Rename rmldbxx to rmldata.

11. Additionally, for Releases 8205 and 8206, copy all of the files from baseapp\weum\rmldb_8205_8206, right-click the history folder, and select Paste.

You are now done setting up the metadata.

**Configuring Access to the RMLDB Archive History Database**

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.

**Note:** If you have multiple instances of Resource Management, they all have to archive to the same database.
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 Connect to Data icon on the sidebar.
   **Note:** This location may be different depending on your release.

2. Expand the Configured folder, or view the Configured Adapters panel, to see the list of configured adapters.

3. Right-click the adapter used for the Resource Management repository database 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 the EUM Reporting Server Console, using the admin user ID.

6. Click the Connect to Data icon.

7. In the Adapter panel, double-click New Datasource to find the same adapter being used for the RMLDB database.

8. Once you locate the correct adapter, double-click it to take you to the configuration window. 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.

9. Click Test to verify the connection.

10. Click Configure to finish configuring the adapter.

11. Verify the history rmldata metadata is pointing to the adapter.

For more information, see *How to Copy the RMPROF.FEX, RMLDB.FEX, and RMLDATA.FEX Files* on page 53.
Configuring EUM on the Client for Windows

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

Configuring the Utilization Link to Run Resource Analyzer Reports

This section covers the EUM configuration steps to connect your Resource Analyzer Console in the monitoring WebFOCUS instance to run the Resource Analyzer reports. On the home page of the EUM application, there is a link tile below that will connect EUM to the Resource Analyzer Console for you to run the reports included with the Resource Analyzer application, as shown in the following image.

![Image of EUM and Resource Analyzer integration](image_url)

**Procedure:** How to Configure the Utilization Link to Run Resource Analyzer Reports

1. Sign in to the EUM Client home page, using the admin user ID.
2. From the home page default view, click the WEUM domain.
3. Expand the WEUM domain folder.
4. Expand the RMLDATA folder.
5. Expand the Resource Management folder.
6. Right-click and edit the Link to Resource Management Reporting URL.
The Edit URL dialog box opens, as shown in the following image.

The Edit URL dialog box opens, as shown in the following image.

Edit URL

<table>
<thead>
<tr>
<th>Title</th>
<th>Link to Resource Management Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Link_to_Resource_Management_Reporting</td>
</tr>
<tr>
<td>Summary</td>
<td>This links back to the WFRS console to access the RM console to run the RM reports that come with Resource Analyzer</td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://servername:portnumber">http://servername:portnumber</a></td>
</tr>
</tbody>
</table>

7. Change the URL to point to the WebFOCUS Reporting Server Console that you are monitoring. You cannot link directly to the Resource Management Console. This will take you to the main page and link using the tools icon on the top right corner.

Enabling Logging on a Windows Environment Mid-Tier Activity

This section describes how to enable logging on the WebFOCUS Client application server that you wish to monitor. This is not the WebFOCUS Client associated with the EUM install.

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.
   To enter the blank line, hit the Enter key to move the cursor to the next line.
5. Click OK.

**Procedure: How to Configure Access to the Web Browser (Mid-Tier) Log File**

This section describes the remaining steps to configure EUM to access the web browser log file. It may be necessary to share or redirect the web browser log files to a drive that is accessible from the EUM machine.

1. Sign in as the admin user ID.
2. On the menu bar, click Administration, and then select Reporting Server Console.
3. Click the Applications button on the sidebar.
4. Expand the baseapp application folder and click weum.
5. Right-click the requestsprof.fex file and select **Copy**.

6. Right-click the baseapp folder and select **Paste**.

7. In the baseapp folder, right-click the requestsprof.fex file and select **Open**.

   **Note:** If the file is not visible, click **Preferences** in the toolbar and select the **Show Files on Application Tree** check box. Click **Update** to save your changes.

8. 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.

   An example of the client log files is in the `drive:\ibi\WebFOCUSnn\WebFOCUS\logs` directory, as shown in the following image.

   ![Client Log Files Example](image)

9. Click **Save**.

At this point, EUM is fully installed and configured.
The dashboard pages in the four EUM portals should now populate with real time (RMLDATA.LOG), historical (RMLDB), and performance data, as shown in the following images.

**Live EUM Portal**

![Live EUM Portal Image]

**History EUM Portal**

![History EUM Portal Image]

**Live Visualizations**

![Live Visualizations Image]

**History Visualizations**

![History Visualizations Image]
Working With the Resource Management Shadow Log

The Resource Management shadow file is a mirror image log file of the RMLDATA log file. Resource Management creates the mirror image so that EUM can read multiple files from a single path. The RMLDATA shadow log file is written out at the same time the Resource Management archive is run. There are several reasons why you may want to configure the Shadow log feature:

- To allow your production WebFOCUS Resource Management application to write a shadow log to a location outside of the production environment that is accessible to the EUM machine.

- If you have multiple WebFOCUS Resource Management environments, you can consolidate them to a single location that is accessible to the EUM machine.

- To provide a way for Information Builders to analyze your historical Resource Management data if required.

If you are running Resource Management Release 7.7 Version 08, or higher, you have access to a shadow file capability.

You can enable this feature by editing the edaenv.cfg file with the following line:

    RMLOG_SHADOW = fullpath

where:

- **fullpath**
  
  Is the location of the Resource Management server.

On a **Windows** machine:

If you have a single Resource Management server configured, the path is:

    drive:\shadow_log_folder

where:

- **drive**
  
  Is the drive where Resource Management is installed.

- **shadow_log_folder**
  
  Is the location of the shadow drive.

If you have multiple Resource Management servers configured, the path is:

    drive:\shadow_log_folder\servername
where:

\textit{drive}

Is the drive where Resource Management is installed.

\textit{shadow\_log\_folder}

Is the location of the shadow drive.

\textit{servern}

Is one of the multiple WebFOCUS Resource Management environments.

\textbf{Note:}

- If you have more than one folder, you need to create these folders before enabling this feature.

- Make sure the directory located on your network drive is shared so that it is accessible from the computer where EUM is installed.

On a \textbf{Linux} machine:

If you have a single Resource Management server configured, the path is:

\texttt{../shadow\_log\_folder}

where:

\textit{shadow\_log\_folder}

Is the location of the shadow drive.

If you have multiple Resource Management servers configured, the path is:

\texttt{../shadow\_log\_folder/servern}

where:

\textit{shadow\_log\_folder}

Is the location of the shadow drive.

\textit{servern}

Is one of the multiple WebFOCUS Resource Management environments.

\textbf{Note:}

- If you have more than one folder, you need to create these folders before enabling this feature.
Make sure the directory located on your network drive is shared so that it is accessible from the computer where EUM is installed.

Autoprompt Parameter Prompting

In order to support the auto drill down on User ID, the Autoprompt Parameter Prompting setting must be Off.

Procedure: How to Set Autoprompt Parameter Prompting

1. Sign in to EUM using the manager user ID or navigate back to the browser where you signed in to EUM.
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.

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