TIBCO WebFOCUS®

Usage Monitor
Installation and Configuration

Release 8207
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Contents

Chapter 1

Introducing TIBCO WebFOCUS Usage Monitor

This topic introduces TIBCO WebFOCUS Usage Monitor and its main features.

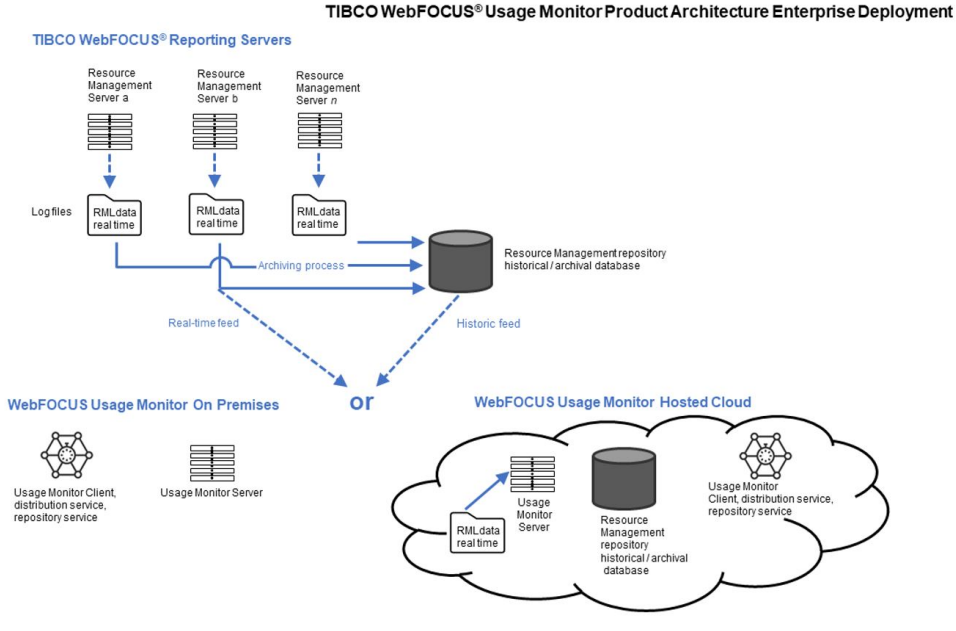
In this chapter:

Usage Monitor Overview

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

Usage Monitor provides a real-time, 360-degree view of your TIBCO WebFOCUS® deployment and all associated information assets, including the TIBCO WebFOCUS® Reporting Server, database server, and mid-tier application, as well as the usage of your users.

The Usage Monitor environment is shown in the following image.

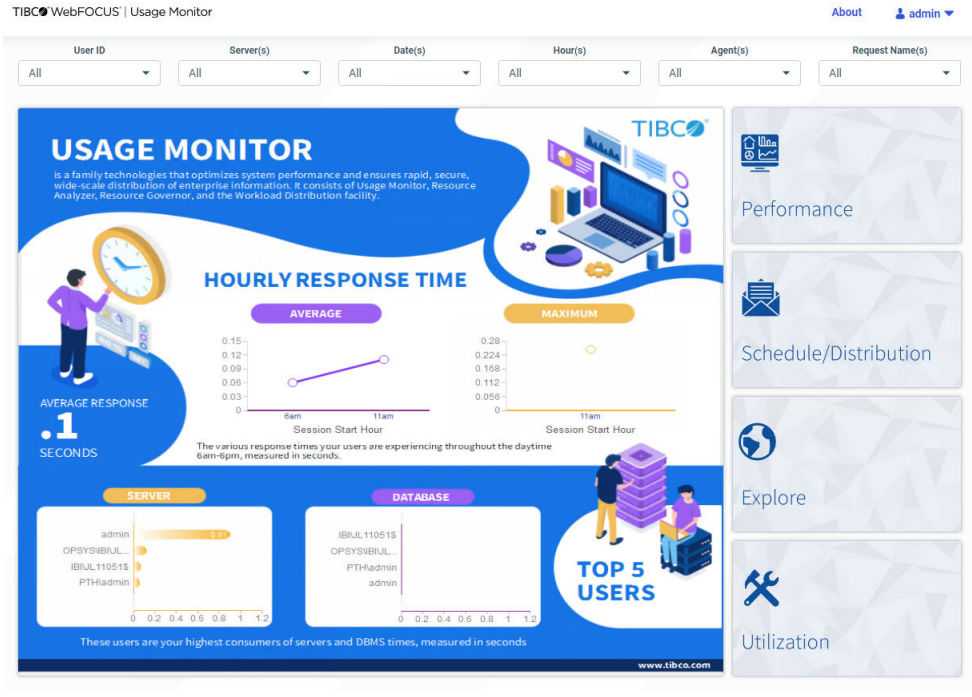


Usage Monitor requires Resource Management to be installed and configured. It extends and enhances resource tracking and management capabilities by allowing you to analyze and visualize vital Resource Management metrics across multiple WebFOCUS® instances, such as frequently run reports, response times, and the number of reports generated by time of day. With this wealth of information, Usage Monitor allows you to achieve a deep understanding of user behaviors, resource consumption, and other factors that impact performance.

With Usage Monitor, 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 Usage Monitor environment, conserving valuable resources.
- Use the Resource Management browser interface to run server-based Resource Analyzer reports.

The Usage Monitor 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. To use Usage Monitor, you must have an existing installation of Resource Management already configured. For more information on Resource Analyzer configuration, see the *Resource Analyzer Administrator's and User's Manual*.

Chapter 2

TIBCO WebFOCUS Integrated Installation for Usage Monitor

WebFOCUS Integrated Installation installs and configures WebFOCUS product components to allow you to import and configure Usage Monitor for your reporting and analytics needs.

Usage Monitor consists of the following tasks:

- Installing WebFOCUS Integrated Installation software
- Importing the Usage Monitor Change Management package
- Configuring Usage Monitor on the WebFOCUS Client and Reporting Server

In this chapter:

WebFOCUS Integrated Installation Components

WebFOCUS Integrated Installation is an all-in-one downloadable installation package. Benefits include:

- TIBCO WebFOCUS® Client and the WebFOCUS® Reporting Server bundled with Tomcat, Derby, and Java.

  Note: The WebFOCUS® Client and the WebFOCUS Reporting Server are configured with the Unicode code page.

- Solr integration for use as a high-performance, full-featured enterprise-search platform.
- Simplified configuration for email distribution.

Installing WebFOCUS Integrated Installation Software

To install WebFOCUS Integrated Installation software, follow the installation instructions outlined in the *TIBCO WebFOCUS® Integrated Installation* manual.

Upgrading the Usage Monitor Environment

If you already have Enterprise Usage Monitor running, you can upgrade WebFOCUS to release 8207.28 and perform the following steps to upgrade to Usage Monitor release 8207.28. The Resource Analyzer connections that are already configured and working are maintained.

1. Before you import the new Change Management package, back up both the live and history application folders.
2. After you run the CM import step successfully, copy the files back and replace the files in both the live and history folders.

The application portal and all contents should run and work in the new release.

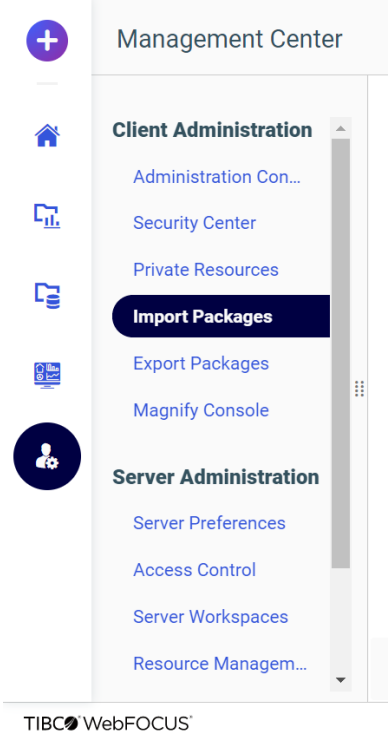
Importing the Usage Monitor Change Management Package

WebFOCUS Integrated Installation includes a Usage Monitor Change Management zip file. The zip file is located in the *drive*:\ibi\WebFOCUS_WFI\WebFOCUS\samples\eum directory.

Procedure: How to Import the Change Management Package

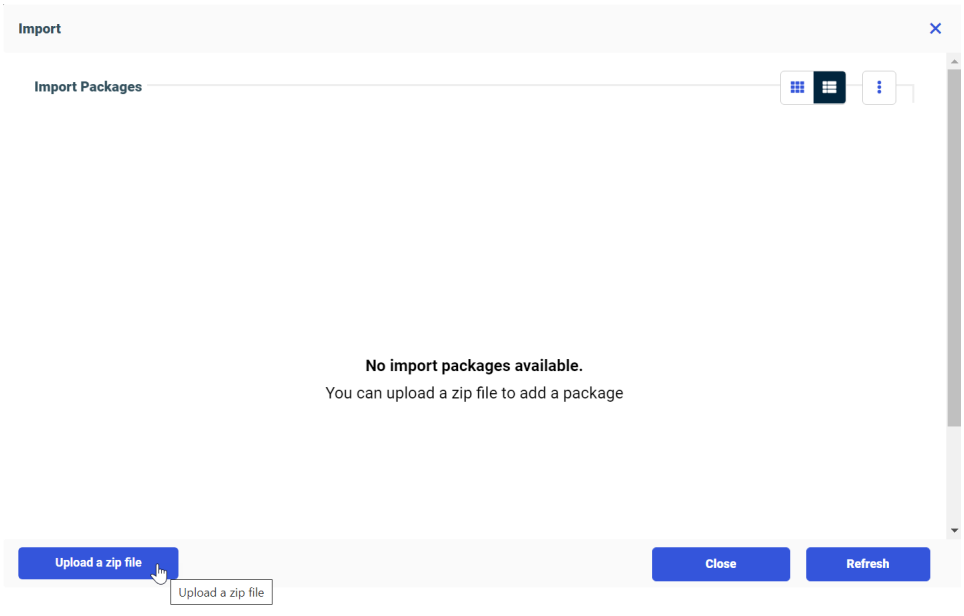
1. Sign in to WebFOCUS as an administrator.

2. On the start page, from the side navigation pane, select *Management Center*, and under the Client Administration area, select *Import Packages*, as shown in the following image.

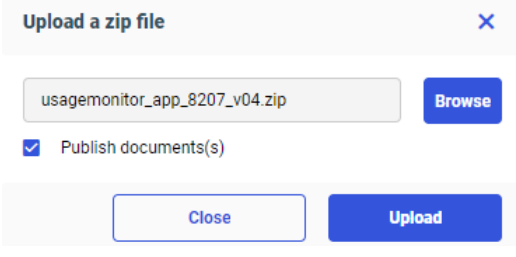


The Import Packages pane opens.

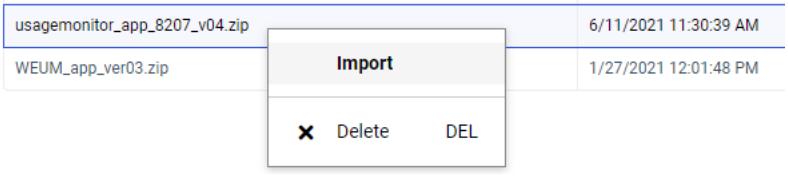
3. Click *Upload a zip file*, as shown in the following image.



4. Navigate to the *drive*:\ibi\WebFOCUS_WFI\WebFOCUS\samples\eum directory, select the *usagemonitor_app_8207_v04.zip* file, and click *Upload*, as shown in the following image.

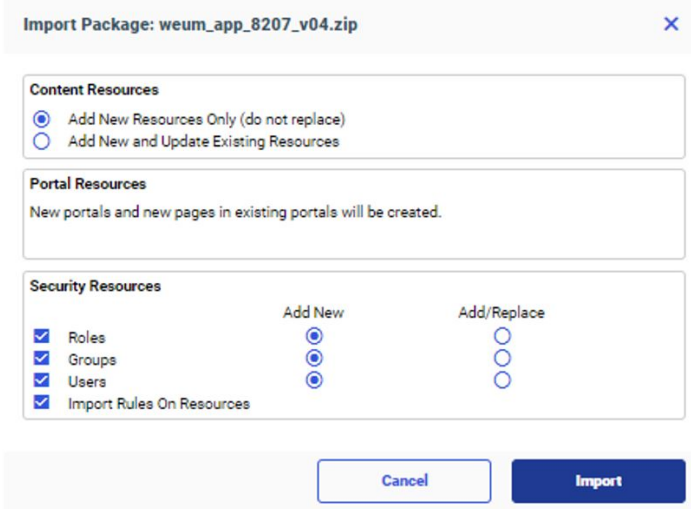


5. Right-click the zip file, and select *Import*, as shown in the following image.



6. On the Import Package dialog box, select the following Import options, as shown in the following image.

   - In the Content Resources section, keep the *Add New Resources Only* default value.
   - In the Security Resources section, select *all* of the *Add New* options.



7. Click *Import* to continue the import and load the contents.

Note: For more information on Change Management, see the *TIBCO WebFOCUS® Security and Administration* manual.

Configuring Usage Monitor on the TIBCO WebFOCUS Client and TIBCO WebFOCUS Reporting Server

For the additional configuration steps that are required after installation, see *Configuring Usage Monitor on Windows Platforms* on page 15 or *Configuring Usage Monitor on Linux Platforms* on page 31, depending on your platform.

Chapter 3

Configuring Usage Monitor on Windows Platforms

The following topics cover the steps to configure Usage Monitor on the WebFOCUS Client and WebFOCUS Reporting Server on Windows platforms.

In this chapter:

Configuring Usage Monitor on the TIBCO WebFOCUS Reporting Server for Windows

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

Setting Up Resource Management Log Files for Usage Monitor Access

The key data in Usage Monitor 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 Usage Monitor.

- 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.

Type	File Structure	Portal Names
Live	Log files (rmldataxx.log)	❑ Live Usage Monitor Portal ❑ Live Visualizations

Type	File Structure	Portal Names
History	Archive repository DBMS (TIBCO FOCUS® or relational DBMS of your choice)	❑ History Usage Monitor Portal ❑ History Visualizations

Procedure: How to Configure Access to the Log Files

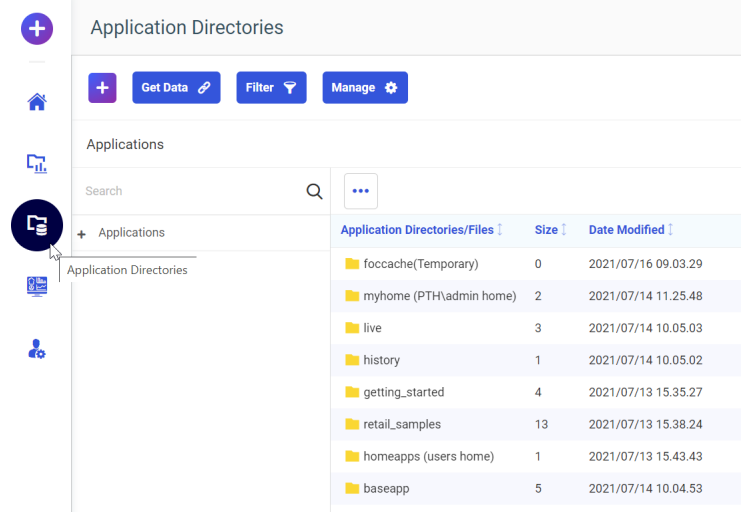
The log file or files generated from the WebFOCUS environment where Resource Management is configured and running will be connected to the Usage Monitor environment for access.

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

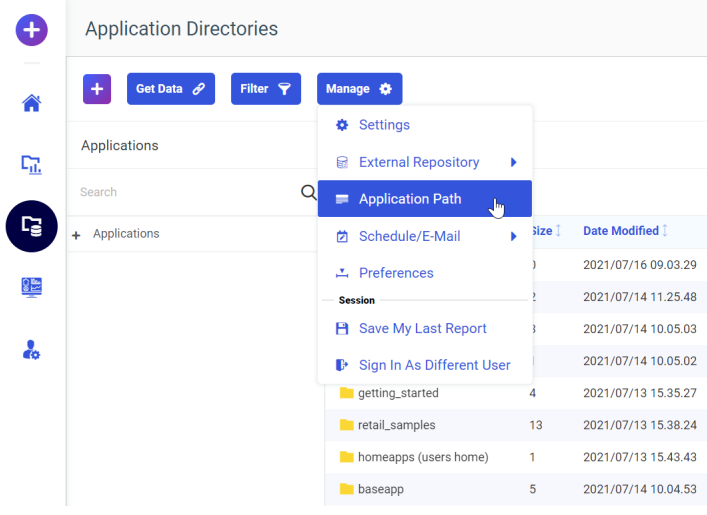
Procedure: How to Add the live and history Application Folders to the Application Path

After the change management import completes, the WebFOCUS Reporting Server Applications folders contain additional content.

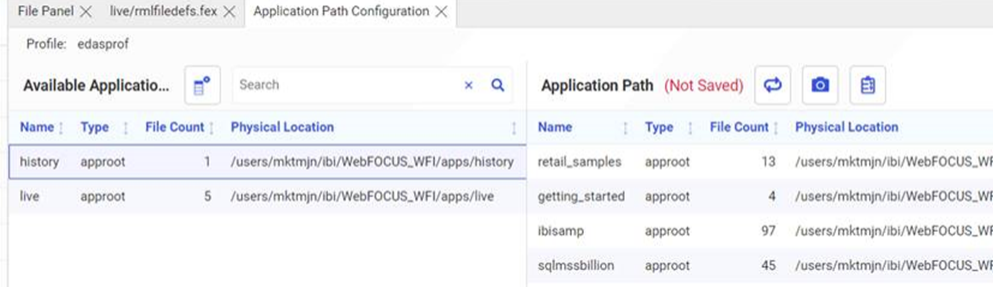
1. On the start page, from the side navigation pane, select *Application Directories*, as shown in the following image.



2. Click *Manage* and then select *Application Path*, as shown in the following image.



The panel shows the history and live folders on the left, under Available Applications, as shown in the following image.



3. Drag both folders from the Available Applications panel on the left to the Application Path panel on the right.

   The order does not matter since the application uses the full path name.

4. Click *Save*.

5. 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 applications/live folder to access the directory where the log files are located.

1. On the start page, under Applications Directories, select the *applications/live* folder to show the contents in the right panel.
2. Right-click the *RMLFILEDEFS.FEX* procedure, and select *Open*.
3. Change the -SET &FILELOC = '*drive*:\data\active'; line in the procedure to point to the rmldata*.log folder location.

   To access the live rmldata log folder:

   Set up the *drive*:\ibi\WebFOCUS\srv\wfs folder as a shared resource on the WebFOCUS Reporting Server from which you want to obtain statistics. This requires Windows admin privileges. Then, map the resource on the Usage Monitor environment.

   The following is an example, using the Windows net use command, to map the remote location directly with credentials:

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

   where:

   drive:\path

   Is the drive and path where the Resource Management log files are located.

   server\sharepath

   Is the folder path where the log files reside.

   Note: If you are going to monitor multiple Resource Management (RM) environments, add the additional RM log file folders to the network share.
4. You can test the procedure by clicking the *Run* button.

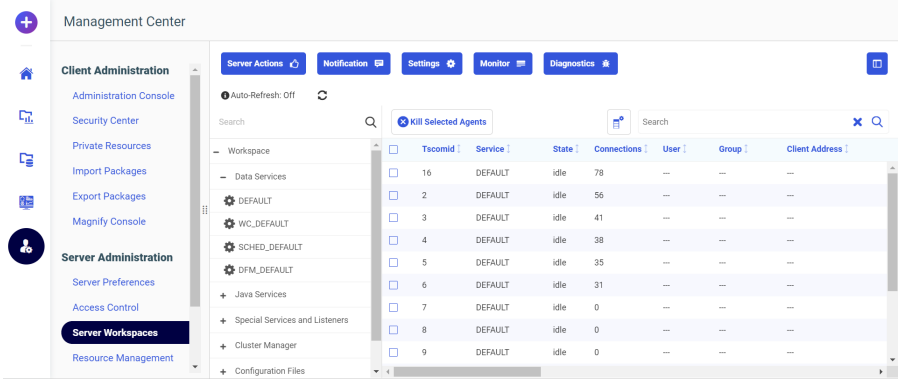
   You will see each log file listed in the output.
5. Save the procedure and close the tab.

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

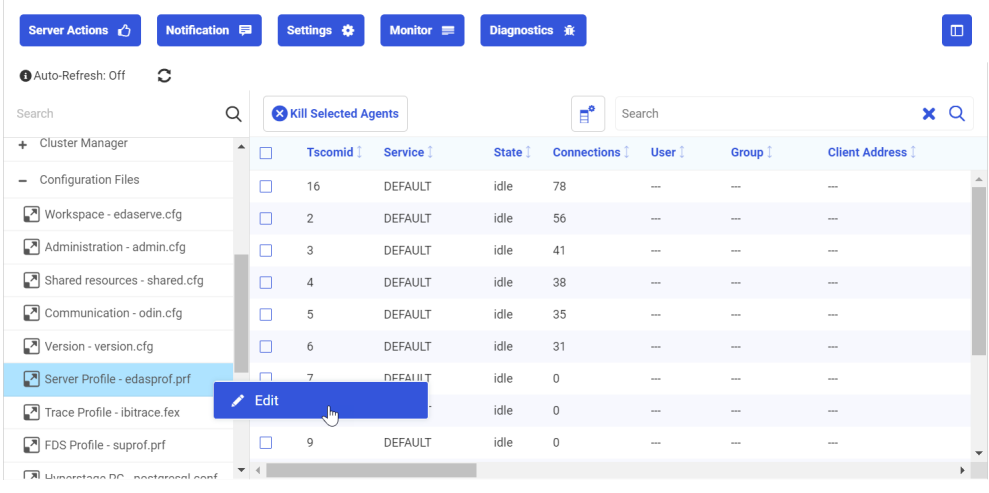
The following procedure describes how to execute the rmlfiledefs.fex file to dynamically FILEDEF all rmldata*.log files in the network share folder you have just set up.

1. Sign in to Usage Monitor, using the admin ID.

2. On the start page, from the side navigation pane, select *Management Center*, and then under the Server Administration area, select *Server Workspaces*, as shown in the following image.



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



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

```
EX live/rmlfiledefs.fex DISPLAY=NO
```

5. Click *Save* (disk icon on the top left) 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 Usage Monitor to match up the environments.

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

drive1:\ibi\srv*xx*\wfs\catalog\rm\rmprof.fex

drive1:\ibi\srv*xx*\wfs\catalog\rm\rmldb.fex

drive1:\ibi\srv*xx*\wfs\catalog\rm\rmldata.fex

to the path where you installed Usage Monitor, for example:

drive2:\ibi*WebFOCUS*\srv\wfs\catalog\rm\rmprof.fex

drive2:\ibi*WebFOCUS*\srv\wfs\catalog\rm\rmldb.fex

drive2:\ibi*WebFOCUS*\srv\wfs\catalog\rm\rmldata.fex

where:

drive1

Is the drive where Resource Management is configured.

xx

Is the WebFOCUS 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, *drive*:\ibi\srv82.

If you install TIBCO® Data Migrator Release 7.7 Version 07, then the default names will indicate *77*. For example, *drive*:\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 Data Migrator Server license key, the value is dm.

drive2

Is the drive where Usage Monitor is installed.

Configuring Usage Monitor to Use the Resource Management Metadata Files

The Usage Monitor application is a separate installation of WebFOCUS, using release 8207. It connects to your other WebFOCUS environments where Resource Analyzer is active and capturing log statistics. This is the main data source used by the Usage Monitor application. The History Usage Monitor Portal reads a single Resource Analyzer repository. This archive repository can be connected to several WebFOCUS instances (Dev, Test, Prod, and so on) to capture the archiving of the rmldata log files. The utility to control this setting is on the Resource Analyzer browser interface found on the WebFOCUS Reporting Server tools.

Procedure: How to Point to the Resource Management Files

All release metadata supported with Usage Monitor is in baseapp/weum. Locate 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 Application Directories panel, the Master File (.mas) will bring along the Access File (.acx). Only one copy step is needed.

Resource Analyzer Release	Live Metadata		History Metadata	
	Copy from apps/ baseapp/weum	**Copy to**	**Copy from apps/ baseapp/weum**	**Copy to**
8.0.*xx*	rmldata80.mas/acx	apps/live	rmldb80.mas/acx	apps/history
8.1.*xx*	rmldata81.mas/acx	apps/live	rmldb81.mas/acx	apps/history
8.2.01 8.2.02	rmldata82.mas/acx	apps/live	rmldb82.mas/acx	apps/history
8.2.03	rmldata8203.mas/acx	apps/live	rmldb8203.mas/acx	apps/history
8.2.04	rmldata8204.mas/acx	apps/live	rmldb8204.mas/acx	apps/history
8.2.05	rmldata8205.mas/acx	apps/live	rmldb8205.mas/acx	apps/history
8.2.06	rmldata8206.mas/acx	apps/live	rmldb8206.mas/acx	apps/history
8.2.07	rmldata8207.mas/acx	apps/live	rmldb8207.mas/acx	apps/history

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

For the history Master File:

1. Navigate back to the *weum* folder contents and locate the *rmldbxx* file that matches in the above table.
2. Right-click the *rmldbxx* file and select *Copy*.
3. Right-click the *history* folder and select *Paste*.
4. Click the *history* folder to refresh.
5. Right-click the copied Master File and select *Rename*.
6. Rename *rmldbxx* to *rmldata*.

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 Usage Monitor 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 Usage Monitor 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 Usage Monitor or switching between the different DBMS repositories and accessing one at a time.

Procedure: How to Configure the RMLDB Adapter

Gather connection information from the Resource Management 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 browser interface, 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 Usage Monitor environment.

   Note: It is critical that the connection name is identical.

5. Sign in to Usage Monitor, 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 environment.

   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.

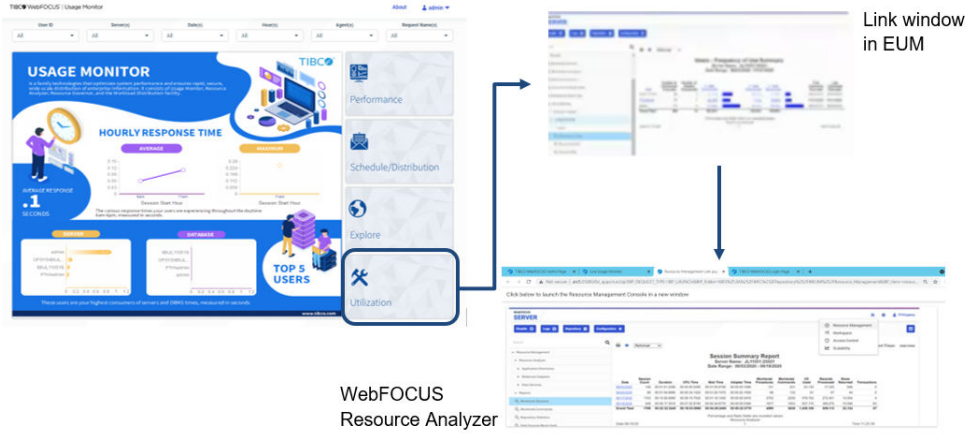
For more information, see *How to Copy the RMPROF.FEX, RMLDB.FEX, and RMLDATA.FEX Files* on page 20.

Configuring Usage Monitor on the TIBCO WebFOCUS Client for Windows

This section covers the steps to configure Usage Monitor on the WebFOCUS Client.

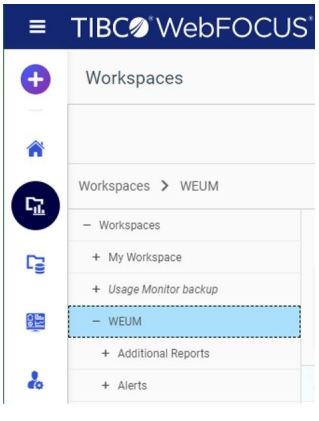
Configuring the Utilization Link to Run Resource Analyzer Reports

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



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

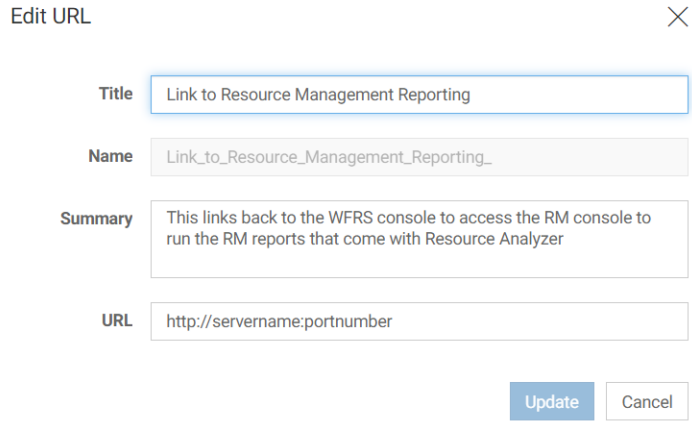
1. Sign in to Usage Monitor, using the admin user ID.
2. On the start page, from the side navigation pane, select the *Workspaces* icon, as shown in the following image.



3. From the Workspaces view, click the *WEUM* domain.

4. Expand the *WEUM* domain folder.
5. Expand the *RMLDATA* folder.
6. Expand the *Resource Management* folder.
7. Right-click and edit the *Link to Resource Management Reporting Console* URL.

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



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

   Note: You can only connect to one Resource Management browser interface at a time. If you have multiple Resource Management platforms running, you may not need this feature.

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 Usage Monitor installation.

Procedure: How to Enable Logging on the TIBCO 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. To enter the blank line, press Enter to move the cursor to the next line.

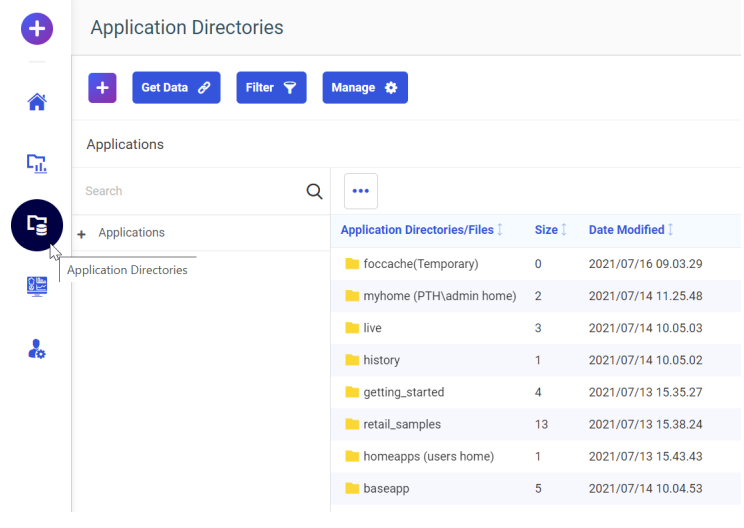
```
-DIBI_Request_Logging=ON
 <Blank line>
```

5. Click *OK*.

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

This section describes the remaining steps to configure Usage Monitor 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 Usage Monitor environment.

1. Set up the *drive*:\ibi\WebFOCUS*nn*\logs folder as a shared resource on the WebFOCUS Reporting Server from which you want to obtain statistics. This requires Windows admin privileges. Then, map the resource on the Usage Monitor environment.
2. Sign in to Usage Monitor, using the admin user ID.
3. On the start page, from the side navigation pane, select *Application Directories*, as shown in the following image.



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

   Set up the *drive*:\ibi\WebFOCUS\srv\wfs folder as a shared resource on the WebFOCUS Reporting Server from which you want to obtain statistics. This requires Windows admin privileges. Then, map the resource on the Usage Monitor environment.

5. Edit the file so the following line contains the location of the WebFOCUS environment requests*.log files, as follows:

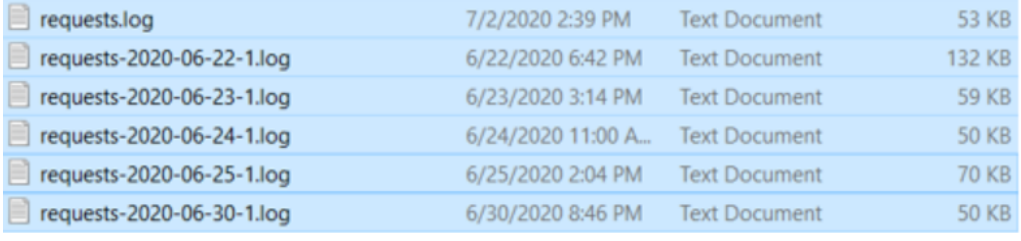
   ```
   -DEFAULTH &FILELOC = '\\share_name';
   ```

   where:

   share_name

   Is the mapped share name where the WebFOCUS Client request log or logs are located.

   An example of the WebFOCUS Client log files is in the *drive*:\ibi\WebFOCUS*nn*\logs directory, as shown in the following image.

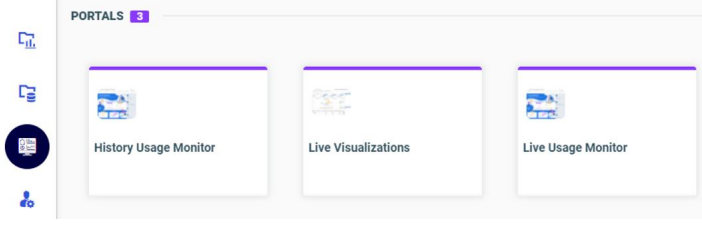


requests.log	7/2/2020 2:39 PM	Text Document	53 KB
requests-2020-06-22-1.log	6/22/2020 6:42 PM	Text Document	132 KB
requests-2020-06-23-1.log	6/23/2020 3:14 PM	Text Document	59 KB
requests-2020-06-24-1.log	6/24/2020 11:00 A...	Text Document	50 KB
requests-2020-06-25-1.log	6/25/2020 2:04 PM	Text Document	70 KB
requests-2020-06-30-1.log	6/30/2020 8:46 PM	Text Document	50 KB

6. Click *Save*.

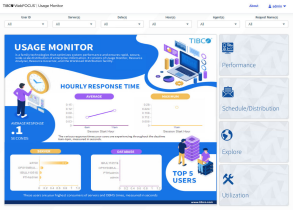
At this point, Usage Monitor is fully installed and configured.

The dashboard pages in the Usage Monitor portals should now populate with real time (RMLDATA.LOG), historical (RMLDB), and performance data, as shown in the following images.



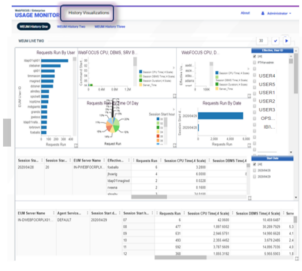
Live Usage Monitor Portal

History Usage Monitor Portal



Live Visualizations Portal

History Visualizations (three dashboards, no Portal) located in the WEUM/RMLDATA/Visualization_dashboards_live_history/History domain folder



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 Usage Monitor 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 Resource Management application to write a shadow log to a location outside of the production environment that is accessible to the Usage Monitor environment.
- If you have multiple Resource Management environments, you can consolidate them to a single location that is accessible to the Usage Monitor environment.

- To provide a way for Customer Support 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 folder.

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

drive:*shadow_log_folder**servern*

where:

drive

Is the drive where Resource Management is installed.

shadow_log_folder

Is the location of the shadow drive.

servern

Is one of the multiple WebFOCUS Resource Management environments.

Note:

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

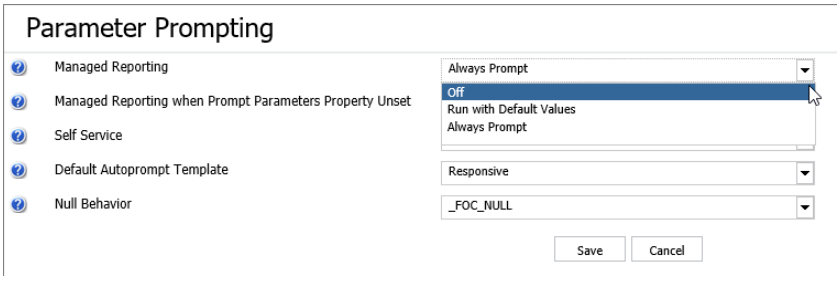
- Make sure the directory located on your network drive is shared so that it is accessible from the computer where Usage Monitor is installed.

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 Usage Monitor using the admin user ID or navigate back to the browser where you signed in to Usage Monitor.
2. On the start page, from the side navigation pane, select *Management Center* and then *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.

Chapter 4

Configuring Usage Monitor on Linux Platforms

The following topics cover the steps to configure Usage Monitor on the WebFOCUS Client and WebFOCUS Reporting Server on Linux platforms.

In this chapter:

Configuring Usage Monitor on the TIBCO WebFOCUS Reporting Server for Linux

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

Setting Up Resource Management Log Files for Usage Monitor Access

The key data in Usage Monitor 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 Usage Monitor.

- 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.

Type	File Structure	Portal Names
Live	Log files (rmldataxx.log)	❑ Live Usage Monitor Portal ❑ Live Visualizations

Type	File Structure	Portal Names
History	Archive repository DBMS (FOCUS® or relational DBMS of your choice)	❑ History Usage Monitor Portal ❑ History Visualizations

Procedure: How to Configure Access to the Log Files

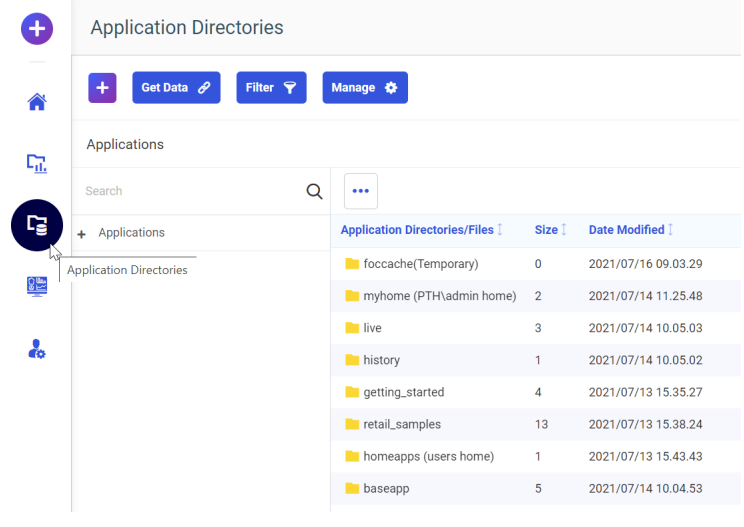
The log file or files generated from the WebFOCUS environment where Resource Management is configured and running will be connected to the Usage Monitor environment for access.

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

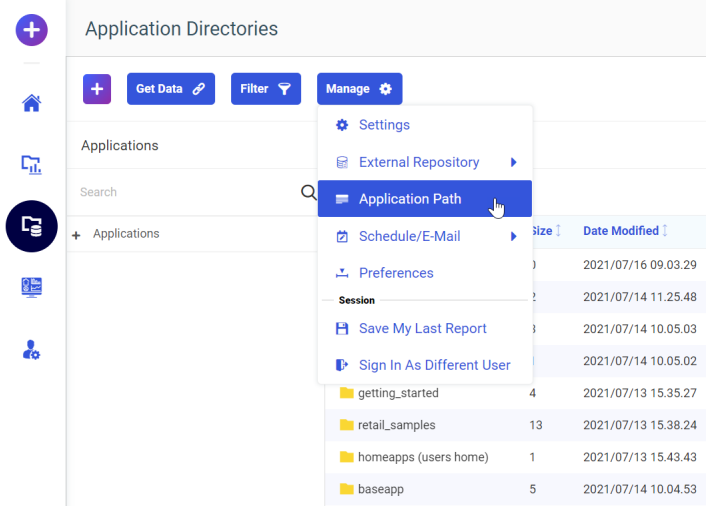
Procedure: How to Add the live and history Application Folders to the Application Path

After the change management import completes, the WebFOCUS Reporting Server Applications folders contain additional content.

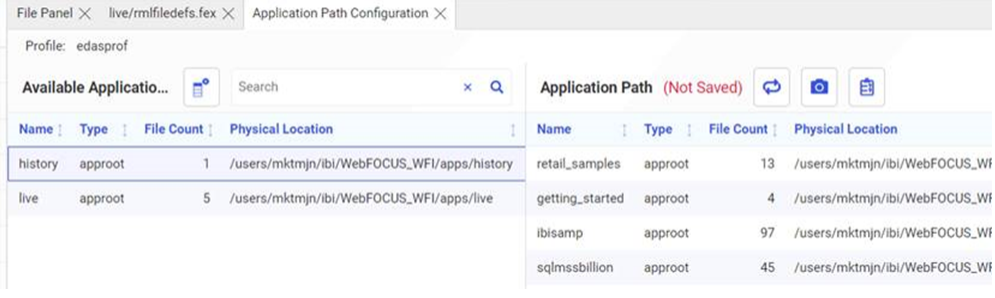
1. On the start page, from the side navigation pane, select *Application Directories*, as shown in the following image.



2. Click *Manage* and then select *Application Path*, as shown in the following image.



The panel shows the history and live folders on the left, under Available Applications, as shown in the following image.



3. Drag both folders from the Available Applications panel on the left to the Application Path panel on the right.

   The order does not matter since the application uses the full path name.

4. Click *Save*.

5. 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 applications/live folder to use the directory where the log files are located.

1. On the start page, under Applications Directories, select the *applications/live* folder to show the contents in the right panel.
2. Right-click the *RMLFILEDEFS.FEX* procedure, and select *Open*.
3. Change the -SET &FILELOC = '*install_directory*/data/active'; line to point to your folder location.

   As a prerequisite for each Resource Management environment being monitored, set up a shared directory for access in Usage Monitor. The shareable folder will be defined in this RMLFILEDEFS procedure. See your Linux administrator to set up the security for the share.
4. You can test the procedure by clicking the *Run* button.

   You will see each log file listed in the output.
5. Save the procedure and close the tab.

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 Usage Monitor to match up the environments.

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

install_directory1/ibi/srv*xx*/wfs/catalog/rm/rmprof.fex

install_directory1/ibi/srv*xx*/wfs/catalog/rm/rmldb.fex

install_directory1/ibi/srv*xx*/wfs/catalog/rm/rmldata.fex

to the path where you installed Usage Monitor, for example:

install_directory2/ibi/*WebFOCUS*/srv/wfs/catalog/rm/rmprof.fex

install_directory2/ibi/*WebFOCUS*/srv/wfs/catalog/rm/mldb.fex

install_directory2/ibi/*WebFOCUS*/srv/wfs/catalog/rm/rmldata.fex

where:

`install_directory1`

Is the directory where Resource Management is configured.

xx

Is the WebFOCUS 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 Data Migrator 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 Data Migrator Server license key, the value is dm.

install_directory2

Is the directory where Usage Monitor is installed.

Configuring Usage Monitor to Use the Resource Management Metadata Files

The Usage Monitor application is a separate installation of WebFOCUS, using release 8207. It connects to your other WebFOCUS environments where Resource Analyzer is active and capturing log statistics. This is the main data source used by the Usage Monitor application. The History Usage Monitor Portal reads a single Resource Analyzer repository. This archive repository can be connected to several WebFOCUS instances (Dev, Test, Prod, and so on) to capture the archiving of the rmldata log files. The utility to control this setting is on the Resource Analyzer browser interface found on the WebFOCUS Reporting Server tools.

Procedure: How to Point to the Resource Management Files

All release metadata supported with Usage Monitor is in baseapp/weum. Locate 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 Application Directories panel, the Master File (.mas) will bring along the Access File (.acx). Only one copy step is needed.

Resource Analyzer Release	Live Metadata		History Metadata	
	Copy from apps/ baseapp/weum	**Copy to**	**Copy from apps/ baseapp/weum**	**Copy to**
8.0.*xx*	rmldata80.mas/acx	apps/live	rmldb80.mas/acx	apps/history
8.1.*xx*	rmldata81.mas/acx	apps/live	rmldb81.mas/acx	apps/history
8.2.01 8.2.02	rmldata82.mas/acx	apps/live	rmldb82.mas/acx	apps/history
8.2.03	rmldata8203.mas/acx	apps/live	rmldb8203.mas/acx	apps/history
8.2.04	rmldata8204.mas/acx	apps/live	rmldb8204.mas/acx	apps/history
8.2.05	rmldata8205.mas/acx	apps/live	rmldb8205.mas/acx	apps/history
8.2.06	rmldata8206.mas/acx	apps/live	rmldb8206.mas/acx	apps/history
8.2.07	rmldata8207.mas/acx	apps/live	rmldb8207.mas/acx	apps/history

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*.
6. Rename *rmldataxx* to *rmldata*, removing the release number.

For the history Master FIle:

1. Navigate back to the weum folder contents and locate the *rmldbxx* file that matches in the above table.
2. Right-click the *rmldbxx* file and select *Copy*.
3. Right-click the *history* folder and select *Paste*.
4. Click the *history* folder to refresh.

5. Right-click the copied Master File and select *Rename*.
6. Rename *rmldbxx* to *rmldata*.

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 Usage Monitor 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 Usage Monitor 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 Usage Monitor or switching between the different DBMS repositories and accessing one at a time.

Procedure: How to Configure the RMLDB Adapter

Gather connection information from the Resource Management 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 browser interface, 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 Usage Monitor environment.

   Note: It is critical that the connection name is identical.
5. Sign in to Usage Monitor, 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 environment.

   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.

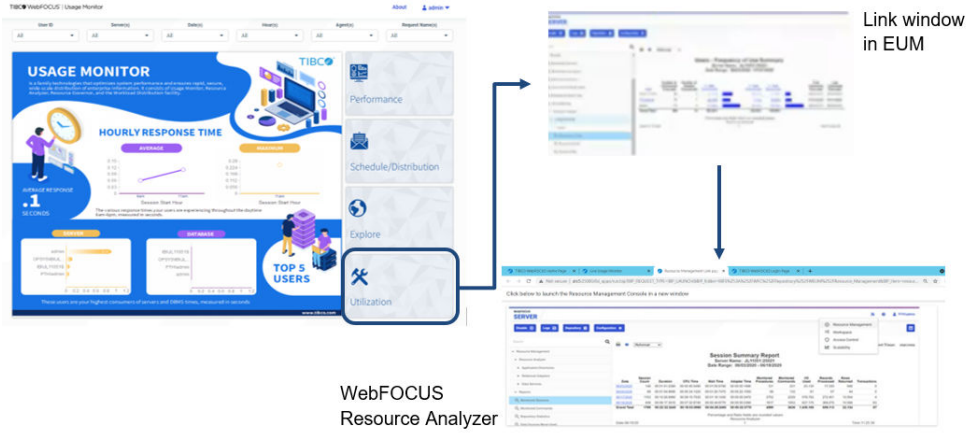
For more information, see *How to Copy the RMPROF.FEX, RMLDB.FEX, and RMLDATA.FEX Files* on page 34.

Configuring Usage Monitor on the TIBCO WebFOCUS Client for Linux

This section covers the steps to configure Usage Monitor on the WebFOCUS Client.

Configuring the Utilization Link to Run Resource Analyzer Reports

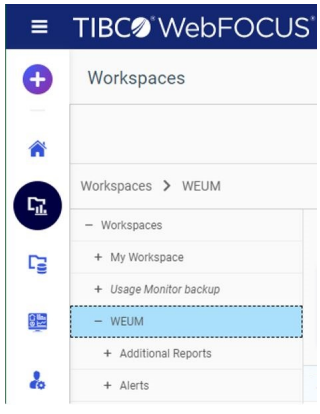
This section covers the Usage Monitor configuration steps to connect your Resource Analyzer browser interface in the monitoring WebFOCUS instance to run the Resource Analyzer reports. On the start page of the Usage Monitor application, there is a link tile below that will connect Usage Monitor to the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



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

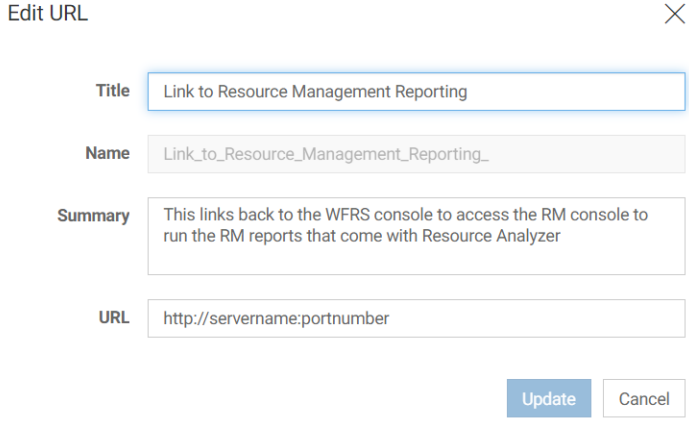
1. Sign in to Usage Monitor, using the admin user ID.

2. On the start page, from the side navigation pane, select the *Workspaces* icon, as shown in the following image.



3. From the Workspaces view, click the *WEUM* domain.
4. Expand the *WEUM* domain folder.
5. Expand the *RMLDATA* folder.
6. Expand the *Resource Management* folder.
7. Right-click and edit the *Link to Resource Management Reporting Console* URL.

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



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

Note: You can only connect to one Resource Management browser interface at a time. If you have multiple Resource Management platforms running, you may not need this feature.

Enabling Logging on a Linux 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 Usage Monitor installation.

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

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

   ```
   install_directory/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 -Xmx512m -Djava.awt.headless=true
   -DIBI_Request_Logging=ON"
   ```

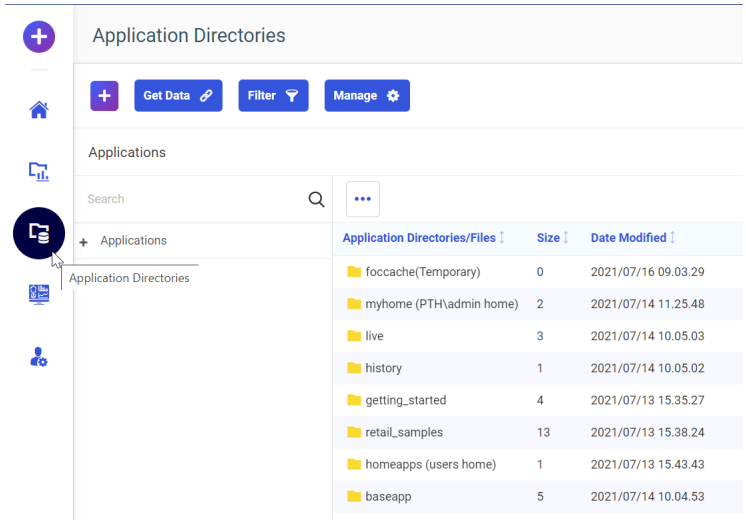
3. Save the file.

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

This section describes the remaining steps to configure Usage Monitor to access the web browser log file. It may be necessary to share or redirect the web browser log files to a directory that is accessible from the Usage Monitor environment.

1. Sign in to Usage Monitor, using the admin user ID.

2. On the start page, from the side navigation pane, select *Application Directories*, as shown in the following image.



3. Expand the *baseapp* application folder and click *weum*.
4. Right-click the *requestsprof.fex* file and select *Copy*.
5. Right-click the *baseapp* folder and select *Paste*.
6. In the baseapp folder, right-click the *requestsprof.fex* file and select *Open*.
7. 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.

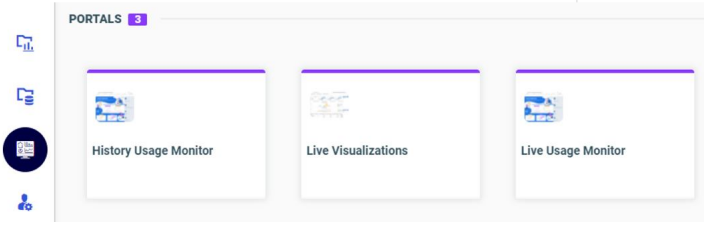
An example of the WebFOCUS Client log files is in the *install_directory*/ibi/WebFOCUS*nn*/logs directory, as shown in the following image.

```
/users/userid/ibi/WebFOCUS82/logs$ ls -ltr re*
-rw-r----- 1 userid cts 0 Apr 16  2018 requests.2018-04-16.log
-rw-r----- 1 userid cts 0 Sep 21 13:21 requests.2018-04-17.log
-rw-r----- 1 userid cts 0 Sep 21 13:22 requests.2018-04-18.log
-rw-r----- 1 userid cts 0 Sep 21 13:22 requests.log
```

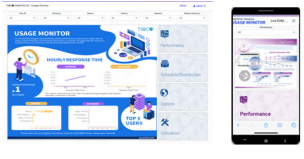
8. Click *Save*.

At this point, Usage Monitor is fully installed and configured.

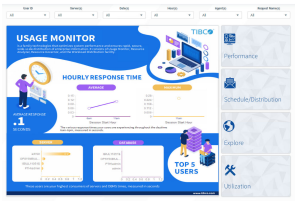
The dashboard pages in the Usage Monitor portals should now populate with real time (RMLDATA.LOG), historical (RMLDB), and performance data, as shown in the following images.



Live Usage Monitor Portal

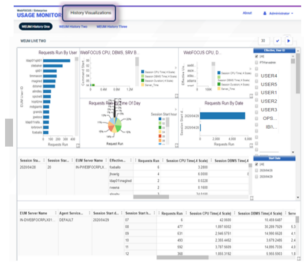


History Usage Monitor Portal



Live Visualizations Portal

History Visualizations (three dashboards, no Portal) located in the WEUM/RMLDATA/Visualization_dashboards_live_history/History domain folder



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 Usage Monitor 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 Resource Management application to write a shadow log to a location outside of the production environment that is accessible to the Usage Monitor environment.
- If you have multiple Resource Management environments, you can consolidate them to a single location that is accessible to the Usage Monitor environment.
- To provide a way for Customer Support 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 folder.

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

../*shadow_log_folder*

where:

shadow_log_folder

Is the location of the shadow folder.

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

../*shadow_log_folder/servern*

where:

shadow_log_folder

Is the location of the shadow folder.

servern

Is one of the multiple Resource Management environments.

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 Usage Monitor is installed.

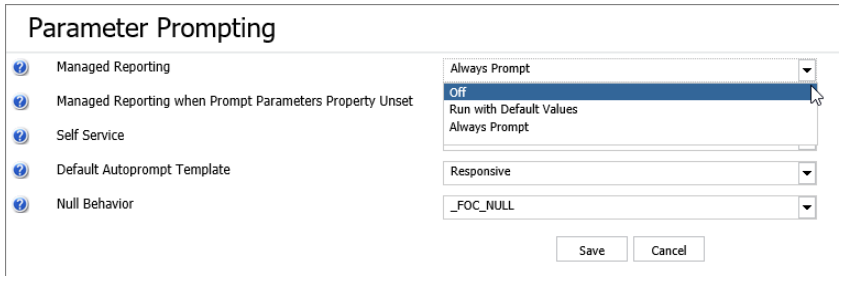
Autoprompt Parameter Prompting

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 Usage Monitor using the admin user ID or navigate back to the browser where you signed in to Usage Monitor.
2. On the start page, from the side navigation pane, select *Management Center* and then *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.