MessageWay Reporting Installation and Configuration Guide for Oracle



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Introduction

MessageWay Reporting[™] is a web-based application that lets you view historic and current MessageWay activity using a web browser from any location. MessageWay Reporting comes with six reports that display historical data and three monitors that update every 60 seconds to give you an up-to-the-minute view of system activity. Each report contains a filter that lets you control what the report displays. You can view any number of reports and print or save reports in multiple file formats if desired.

Audience

This guide is intended for administrators who want to install, configure, or manage MessageWay on their host servers. This person should be familiar with the host's operating system and database server and have administrator credentials for both.

Whoever configures MessageWay Reporting must also have credentials to log on to and administer users and locations in MessageWay.

Purpose and Scope

This guide provides step-by-step instruction for how to: Install MessageWay Reporting (on page 8) Start and stop MessageWay Reporting (on page 18) Configure MessageWay Reporting (on page 19) Troubleshoot Logon Failure (on page 34) View Log Files (on page 36) Uninstall MessageWay Reporting (on page 37)

System Requirements

Software Requirements

Operating Systems	Red Hat Enterprise Linux (RHEL) v6.x and 7.x SUSE Linux Enterprise Server (SLES) v11 and 12
Database Platforms (MessageWay)	Oracle 11g R2: 11.2.0.1, clustered and standalone Oracle 12c R2: 12.2.x, clustered and standalone Oracle 19c R3: 19.3.x, clustered and standalone
Database Platforms (Datamart)	Oracle 11g R2: 11.2.0.1, clustered and standalone Oracle 12c R2: 12.2.x, clustered and standalone Oracle 19c R3: 19.3.x, clustered and standalone
MessageWay	Version 6.1
Supported Browsers	Internet Explorer v11, latest versions of Chrome and Firefox

Hardware Requirements

CPU	2 core/cpu minimum
RAM	Minimum of 8GB is recommended.
Hard Disk	The application footprint is under 350MB; additional 1GB would suffice for its log files.
Networking	The traffic to and from MessageWay Reporting falls into two categories: User activity from client browser to the application. Database activity for both report generation and the periodic ETL activity. The ETL does not fetch the actual message content, only the associated database records. We recommend a low latency and a high throughput connection from the MessageWay Reporting server to the related database servers to minimize the ETL execution time.

MessageWay Requirements

The MessageWay Reporting host server must have network access to the MessageWay server.

MessageWay Requirements

The MessageWay Service Interface must be running on the MessageWay server.

Technical Support

The MessageWay Technical Support hub is an information and diagnostic center available for customers to:

- Obtain advice on proper product installation, configuration, and operation
- Report any product problems and receive timely resolutions
- Request a software enhancement
- Request software updates
- Inquire about software release contents and status
- View publications
- See how to contact Technical Support
- See hours of availability for Technical Support

To visit the MessageWay Technical Support hub, please follow the below link:

https://www.progress.com/support/messageway

The Technical Support Web site is available 24/7, portions of which require a valid Progress ID. If you have not already done so, you can follow the instructions in the following URL to obtain a valid Progress ID:

https://knowledgebase.progress.com/articles/Article/how-to-create-a-progress-id

Install MessageWay Reporting

Before beginning installation, ensure that your system meets all *system requirements* (on page 6). The install is comprised of two parts, which must be installed in the following order:

- 1. The database install, which includes:
 - Prepare MessageWay database to capture data for Reporting
 - Prepare the Reporting database (also referred to as datamart)
- 2. The perimeter server install, which includes:
 - Installing MessageWay Reporting Application

> Extract the database install files:

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- 1 In the MessageWay Reporting install package that you received, there should be a file named *MWIR_SQL_release.tgz*. Copy this file to the **mwayinstall** directory on the database server (create if does not exist).
- 2 Go to the **mwayinstall** directory on the database server and untar the *MWIR_SQL_release.tgz* file:
 - **tar** –**xzvf** *MWIR_SQL_release.tgz*

This creates a subdirectory of the name of the install file with version info added.

3 Go to the subdirectory you just created and proceed to the next section. For the purpose of this document, this directory is referred to as *mwir_sql_root*.

Prepare MessageWay database to capture data for Reporting:

1 Execute one of the following script files against the pre-existing MessageWay database (referred to as *mway_database* in this document). Two script variations are provided. The script with the "-nohistory" suffix will not capture pre-existing Message and Audit Log information (reports will only show messages and audit logs after the reporting-related database changes have been applied via the script).

Note: The script files noted below are batch scripts; they will call out other sql scripts located in the same folder. If the script files need to be placed on a different machine/path for execution, be sure to include all .sql files while maintaining the directory structure below the "sql" directory.

TO CAPTURE HISTORICAL DATA:

mwir_sql_root/sql/MessageWay/Oracle/oracle-mway-batch-load.sql

sqlplus syntax: sqlplus mway_schema/mway_passwd@mway_connect_identifier @oracle-mway-batch-load.sql

TO NOT CAPTURE HISTORICAL DATA:

mwir_sql_root/sql/MessageWay/Oracle/oracle-mway-batch-load-nohistory.sql

sqlplus syntax: sqlplus mway_schema/mway_passwd@mway_connect_identifier @oracle-mway-batch-load-nohistory.sql

> Prepare the Reporting database:

1 Before reporting-related objects are loaded into the database, you must create a dedicated database for reporting. Logon as an Oracle system user and execute the following script file (file creates a user and schema named **datamart**, edit file and change accordingly if you want to use a different name):

mwir_sql_root/sql/DataMart/Oracle/oracle-datamart-create-schema-template.sql

sqlplus syntax: **sqlplus** "*sys_admin/sys_admin_passwd* as sysdba" @oracle-datamart-create-schema-template.sql

2 Once the reporting database is created, execute the following script file in the context of this database (referred to as *mwir_database* in this document).

Note: The script file noted below is a batch script; it will call out other sql scripts located in the same folder. If the script file needs to be placed on a different machine/path for execution, be sure to include all .sql files while maintaining the directory structure below the "sql" directory.

$\textit{mwir_sql_root/sql/DataMart/Oracle/oracle-datamart-batch-load.sql}$

sqlplus syntax: sqlplus mwir_schema/mwir_passwd @mwir_connect_identifier @ oracle-datamart-batch-load.sql

> Extract the perimeter server install file:

1 Log on as user **root**.

Note: The installer requires root access in order to create the initial install directories and install the necessary files.

- 2 In the MessageWay Reporting install package that you received, there should be a file named *MessageWayReporting.bin*. Copy this file to the **mwayinstall** directory on the perimeter server (create if does not exist).
- **3** Go to the **mwayinstall** directory on the perimeter server, run the install script, and proceed to the next section:

./MessageWayReporting.bin

> Install MessageWay Reporting Application:

Note: The Datamart database must be the same type as the MessageWay database.

- 1 At this point, either the graphical user interface appears, or you continue with the console. The primary difference is for Linux users, who must specify the type of distribution. The following instructions show the console install.
- 2 Read the introductory information and press **Enter** to continue.

Note: To cancel the installation at any time during the process, type quit.

3 Type a *destination folder* in which to install the MWReporting application, or nothing to select the default.



4 Press **Enter**, and accept or change the *port number* used to connect to MWReporting application.



5 Press **Enter**, and accept or change the *Host Name* or *IP Address* of where the MessageWay Service Interface is located. The MWSI is used to authenticate users when logging on to MWReporting application.



6 Press **Enter**, and accept or change the *unsecure port number* used by the MessageWay Service Interface.



7 Press Enter, and accept or change the *secure port number* used by the MessageWay Service Interface.



8 Press Enter, and accept or change the *SSL Fingerprint* which matches the certificate used by the MessageWay Service Interface. The default shown matches the test certificate shipped with the Service Interface. This is the MD5 version of the fingerprint.



9 Press Enter, and enter the number which corresponds to the *database type* used by MessageWay.



10 Press **Enter**, and enter the *Host Name* or *IP Address* of where the MessageWay database is located. If you will be selecting *Service Name* in the next prompt, prefix *Host Name* or *IP Address* with //, else no prefix required.



11 Press Enter, and enter the *Oracle Service Name* or *SID* of the database server hosting the MessageWay data. Prefix *Service Name* with / (for example, /ServiceName). Prefix *SID* with : (for example, :SID).



12 Press Enter, and accept or change the *port number* used by the MessageWay database.



13 Press Enter, and enter the *username* (*mway_schema*) used to access the MessageWay database.



14 Press Enter, and enter the *password* used to access the MessageWay database.



Note: At this point, the install will attempt to connect to the MessageWay database using the credentials provided above. If the connection fails, you will be prompted again to enter the MessageWay database credentials.

15 Press **Enter**, and enter the number which corresponds to the *database type* used by the MWReporting datamart.



16 Press Enter, and enter the Host Name or IP Address of where the MWReporting datamart database is located. If you will be selecting Service Name in the next prompt, prefix Host Name or IP Address with //, else no prefix is required.



17 Press Enter, and enter the *Oracle Service Name* or *SID* of the database server hosting the MWReporting datamart data. Prefix *Service Name* with / (for example, /ServiceName). Prefix *SID* with : (for example, :SID).



18 Press **Enter**, and accept or change the *port number* used by the MWReporting datamart database.



19 Press **Enter**, and enter the *username* (*mwir_schema*) used to access the MWReporting datamart database.



20 Press Enter, and enter the *password* used to access the MWReporting datamart database.



Note: At this point, the install will attempt to connect to the MWReporting datamart database using the credentials provided above. If the connection fails, you will be prompted again to enter the MWReporting datamart database credentials.

21 Press **Enter**, and review the summary.



- **22** Press **Enter**, and wait for the install to complete.
- **23** When the install completes, press **Enter**.

Modify the port number (optional):

The application is configured to accept HTTP connection on the port specified during the install. If for some reason you need to change the value specified during the install, open the following file:

mwir_root/conf/server.xml

and modify the following section accordingly:

```
<Connector port="8080" protocol="HTTP/1.1"
connectionTimeout="20000"
redirectPort="8443" />
```

Set port="8080" to the desired value.

Modify the memory allocation (optional):

The application server is configured to use up to 2GB of memory by default. This is sufficient typically, but if the corresponding Java process appears to reach close to this limit, you can increase this value. To do so, open the following file:

mwir_root/bin/setenv.sh

and modify the following section accordingly:

```
export CATALINA_OPTS="$CATALINA_OPTS -XX:MetaspaceSize=128m
-XX:MaxMetaspaceSize=256M -Xms256M -Xmx2048m"
```

Change the $-Xm \times 2048m$ to the desired value. Be sure to use the "m" suffix to indicate that the value is in megabytes.

Modify data trimming value (optional):

Data trimming is the number of days that historical data will be kept in the datamart. The default value is 396. To change this value, open the following file:

mwir root/webapps/shell/WEB-INF/config/ETLJob.conf

and modify the following section accordingly:

```
<void property="trimDays">
<int>396</int>
</void>
```

Enable Access Class (optional):

Enabling Access Class restricts access to MessageWay via the MWReporting listener to only those users whose configuration does not include an access class list in MessageWay, or includes this value in their access class list in MessageWay. This value should be alphanumeric and is case-sensitive. It must match exactly what is specified for the user, and only one access class value is allowed per MWReporting. The default value is blank (<param-value></param-value>). To specify this value, edit the following file:

mwir root/webapps/shell/WEB-INF/web.xml

and modify the following section accordingly:

```
<description>MessageWay Service Interface Access Class</description>
<param-name>reporting.engine.accessclass</param-name>
<param-value>accessclass</param-value>
```

d restart Massage Way Penerting To anable Access Classes in Massage Way a

and restart MessageWay Reporting. To enable Access Classes in MessageWay, see section *Controlling User Access with Access Classes* (on page 21).

Enable secure connection to MessageWay (optional):

If you want to enable secure connection from MessageWay Reporting to the MessageWay Service Interface, edit the following file:

mwir root/webapps/shell/WEB-INF/web.xml

and modify the following section by changing off to on:

```
<description>SSL authentication switch (values are on or off)...
<param-name>reporting.engine.secureAuthentication</param-name>
<param-value>off</param-value>
```

and restart MessageWay Reporting.

Note: The default secure port for Service Interface is 6243, and the default fingerprint used is the MessageWay test certificate fingerprint.

Enable SSL (optional):

If you want to enable SSL during browser access for enhanced security, follow the instructions in *mwir_root*/enablingSSL.txt.

Recommendations for Oracle Databases

To improve performance, you can execute the following commands:

```
dbms_stats.gather_schema_stats
(ownname=>'DATAMART',
estimate_percent=>20,
degree=>1,
cascade=>TRUE);
dbms_stats.gather_table_stats
(ownname=>'DATAMART',
TABNAME=>'MESSAGESHISTORY',
ESTIMATE_PERCENT=>20,
CASCADE=>TRUE,
METHOD_OPT=>'FOR COLUMNS SIZE 10 status',
degree=>4 );
```

Start and Stop MessageWay Reporting

Start and Stop the Application Server

You must start the Apache Tomcat-based application server before starting MessageWay Reporting interface. You may also need to stop the application server at times.

Use the following commands in the *mwir_root*/**bin** directory to start or stop the application server (log on as user **root**):

./startup.sh

./shutdown.sh

Start the Application Interface

After you've started the application server, you can now start the MessageWay Reporting application interface:

1 Start the application interface by entering the following in a web browser:

http://<server_name>:<port_number>/

Note: The *<port_number>* will be 80 unless you chose a different port number during installation. **Note**: If you cannot reach the site, ensure that the MessageWay Reporting service is running on the host system.

- **2** Log on as a user who:
 - Is a member of the Administrators group
 - Has a default location in MessageWay
 - Has the Generate Reports and Download Messages rights

IMPORTANT: If you cannot log on to MessageWay Reporting, ensure that all MessageWay servers are running.

Configure MessageWay Reporting

After installation is complete you must perform the following configuration tasks in MessageWay Manager and in MessageWay Reporting.

In MessageWay Manager you must configure users to allow access to MessageWay Reporting.

In MessageWay Reporting you will configure time zones, database synchronization and access to individual reports.

Configure MessageWay Manager

Log on as a user who is a member of the Administrators group and then perform the configuration tasks in the following sections.

Permit Access to MessageWay Reporting

To log on to MessageWay Reporting, a user must have:

- A MessageWay username and password
- A Default Location in MessageWay
- Proper user rights in MessageWay

This section describes how to assign the proper user rights in MessageWay.

The easiest way to ensure that a user has the necessary rights in MessageWay to log on to MessageWay Reporting is to add a user to either the Administrators group or the Report Users group in MessageWay. Those groups are pre-configured to allow different levels of access in MessageWay Reporting. You can also customize permissions for individual users and groups on an as-needed basis. Both options are described in the sections below.

Note: If a user experiences logon failure, see Troubleshoot Logon Failures (on page 34).

> Add users to existing pre-configured MessageWay groups:

- 1 Log on to MessageWay Manager as an administrator who has permission to modify user and group access rights.
- **2** Assign the user to one of the following groups (whichever is appropriate):
 - **Report Users**: A user who is added to the Report Users group will be able to:

- Log on to MessageWay Reporting
- View the following three reports: File Details, File Summary, File Transfer Summary
- Administrators: A user who is added to the Administrators group will be able to:
 - Log on to MessageWay Reporting
 - View all reports and monitors
 - View the **System** tab and be able to manage report permissions, database connections, database synchronization, system-wide record limits and view the MessageWay Reporting product version.

Caution: Assign users to the Administrators group with caution. Members of the Administrators group have rights to perform all actions in MessageWay by default.

The MessageWay Reporting database must synchronize with the MessageWay database before changes will take effect in MessageWay Reporting. You can synchronize on demand to see the changes take effect right now, or wait for the next scheduled synchronization. See *Synchronize the Databases* (on page 29) for more information.

> Customize rights for a specific user or group in MessageWay:

- 1 Log on to MessageWay Manager as an administrator who has permission to modify user and group access rights.
- **2** Locate the user or group for whom you want to modify rights.
- **3** Assign the following rights to the user or group, depending on the level of access you want to allow:
 - **Generate Reports** and **Download Messages:** Both rights are required to log on to MessageWay Reporting. Without these rights, a user will not be able to log on to MessageWay Reporting.
 - Modify Global Properties: This right is required to see the System tab in MessageWay Reporting. The System tab includes management of database connections, database synchronization, system-wide record limits and access to the MessageWay Reporting product version. Note that the Modify Global Properties right on its own does not include the ability to change report permissions; Modify Access Rights is also required if a user or group wants to change report permissions.
 - Modify Access Rights: This right is required to view and change report permissions under the System tab. Users must also have the Modify Global Properties right to view the System tab or report permissions will not be accessible.

Follow your organizations accepted security practices when granting access rights and when adding users to groups. See the *MessageWay User's Guide and Reference > Configuring User Security* to view information about managing users and groups in MessageWay.

The MessageWay Reporting database must synchronize with the MessageWay database before changes will take effect in MessageWay Reporting. You can synchronize on demand to see the changes take effect right now, or wait for the next scheduled synchronization. See *Synchronize the Databases* (on page 29) for more information.

Controlling User Access with Access Classes

To limit the access paths to MessageWay for a user or group of users, you assign an access class. When an access class is set for a user, they will not be able to log on to MessageWay unless the MWReporting configuration file web.xml also has that access class listed.

IMPORTANT: Access class names are case-sensitive. They must match the access class name configured in the configuration file for MWReporting (web.xml). See section *Enable Access Class* (on page 16) for details about enabling access class in web.xml.

Access classes may be assigned to a user group. You do this on the **General** page of the User Group Properties window. In the following examples, access class is MWIR for MWReporting.

Remote Users - User Group Properties
General Rights
Description: Remote Users have read access along with upload/download messages
Access Classes: FTP, MWIR, SFTP
Created: 2017/08/24 02:55:39 PM By: <mwadmin> Modified: 2019/03/18 04:37:42 PM By: administrator</mwadmin>
OK Cancel Apply

ReportUserTest - User Properties	
General Groups Rights Locations Certificate	
Groups: Name Add	
Access classes may be inherited from a user group	
Override Security Group Access Classes:	
Access Classes: FTP, MWIR, SFTP Created: 2019/03/18 04:45:02 PM By: administrator Modified: 2019/03/18 04:45:02 PM By: administrator	
OK Cancel Apply	

This access class is then assigned to users that belong to that group.

To assign one or more access classes to a single user or override access classes already assigned to a user, you specify them on the **Groups** page of the User Properties window, separated by commas.

ReportUserTest - User Properties	2 X
General Groups Rights Locations Certificate	
Groups: Name	Add Remove
Override Security Group Access Classes:	
To assign an access class to a user or to override a list already assigned to a user, check the box, and type the access class	
OK Cancel	Apply

This access class must be listed in the MWReporting configuration file, web.xml. If the access class in the configuration file is blank, then the access class for the user must also be blank. If the access class in the configuration file is not blank, then the access class for the user must either match the access class in the configuration file or be blank.

```
<description>MessageWay Service Interface Access Class</description>
<param-name>reporting.engine.accessclass</param-name>
<param-value>mwir</param-value>
```

IMPORTANT: Access class names are case-sensitive. See section *Enable Access Class* (on page 16) for details about enabling access class in web.xml.

Set Location Security

The following reports include location security:

- File Details
- File Summary
- File Transfer Summary
- Message Details
- Message Summary

In these reports, users will see a location and its data only if they have the **Read Message Properties** right to that location in MessageWay.

Note: The remaining reports do not look at locations; therefore location security is irrelevant in those reports.

Note: Members of Administrators group are exempt from location security; they will always see all locations and location data.

To view a location or its data in MessageWay Reporting, a user must have one of the following location **Security** rights in MessageWay:

The user is owner of the location, and therefore has implicit rights to view data:



 The user or a group of which the user is a member has Read Message Properties explicitly allowed under Effective rights:

LocationA - Mailbox properties	? ×
General Options Security Schedule Notifications	
Owner: Administrator	Add Remove
Inherit new users/groups Rights Allow/Deny Effective Perform Location Actions Image: Constraint of the state o	
OK Cancel	Apply

Note: Allowing any other access right automatically allows the Read Message Properties right.

You can explicitly remove access rights for a user who is member of a group that has access to the location by selecting **Deny** for the **Read Message Properties** right:

LocationA - Mailbox properties	? ×
General Options Security Schedule Notifications	
Owner: Administrator	Add Remove
Inherit new users/groups Rights Allow/Deny Effective	
Perform Location Actions	
Read Message Properties	
Modify Message Properties View Messages View Messages View Messages	
OK Cancel	Apply

Warning: Explicitly denying the Read Message Properties right for a user at a location trumps any allows inherited implicitly via group membership. However, if a user is a member of a group that has Read Message Properties and a member of another group that denies Read Message Properties, the user will still be able to see messages at that location.

See the *MessageWay User's Guide and Reference* > *Specifying Security for Locations* for more information.

Configure MessageWay Reporting

- 1 Start the application server by using the following command in the *mwir_root*/bin directory: ./startup.sh
- **2** Start the application interface by entering the following in a web browser:

http://<server_name>:<port_number>/

Note: The *<port_number>* will be 80 unless you chose a different port number during installation. **Note**: If you cannot reach the site, ensure that the MessageWay Reporting service is running on the host system.

- **3** Log on as a user who:
 - Is a member of the Administrators group
 - Has a default location in MessageWay
 - Has the Generate Reports and Download Messages rights

IMPORTANT: If you cannot log on to MessageWay Reporting, ensure that all MessageWay servers are running.

4 Perform the configuration tasks in the following sections:

Set Database Time Zones (on page 27) Synchronize the Databases (on page 29) Permit Access to Reports (on page 30)

Set Database Time Zones

You must set the MessageWay time zone and the MessageWay Reporting time zone within the MessageWay Reporting application.

1 In MessageWay Reporting, select **System** > **Databases**:

PSWITCH MessageWay Interactive reporting		٥	1	i	Welcome, Administrator
System Settings Report Permissions Data Synchronization	n Databases	Options	About	1	
Report Permissions Data Synchronization	n Databases	Options	ADOUT		
Database Settings					
The Reporting database will synchronize wit	h the production Me	ssageWay (database.		
MessageWay Reporting					
Database URL					
jdbc:oracle:thin:@//192.168.196.209:	1521/orcl				
Username					
mway					
Password					
	<u>_</u>				
Time zone of your MessageWay syste (UTC-05:00) US/Eastern	em @				
(010-05.00) 03/Eastern					

Tabs display **MessageWay** and **Reporting**. These settings are populated automatically during installation.

- 2 Under the MessageWay tab, select the Time zone of your MessageWay system. This is the local time of the MessageWay server's host machine. MessageWay stores all dates and times in its database using the date and time of its server's host machine.
- 3 Under the Reporting tab, select the Time zone of your Reporting system. Reports will display dates and times in this time zone. When MessageWay Reporting synchronizes its database with the MessageWay database, the dates and times in reports will be offset by the time zone value you set here. For example, if you select US/Pacific Time for your MessageWay database time zone and US/Eastern for your Reporting database time zone, a file that transferred at 8:00 am on the MessageWay server will show in a report as transferring at 11:00 am.

In most cases your Reporting time zone will match your MessageWay time zone. Select a different Reporting time zone only if you want MessageWay Reporting users to view reports that use dates and times in a particular time zone.

Note: MessageWay Reporting is a browser-based application that can be accessed from anywhere in the world with an internet connection. MessageWay Reporting users may be located in many different time zones. It will not be possible to adjust report times for all users. In this case we recommend that you either select the time zone where most of your users will be located, or select the same time zone for the two databases and let users know that dates and times in reports are local to the MessageWay server (whatever that time zone is).

4 Let MessageWay Reporting users know that all report times are local to the time zone you set for the MessageWay Reporting database, which may not necessarily match their local time zone.

If you selected different time zones for your two databases, let users know that report times are offset by the difference between those two time zones. If users of MessageWay Reporting also use MessageWay, make sure they know the time zone of the MessageWay system since dates and time will appear differently in reports.

Note: Time zones adjust automatically during Daylight Savings Time.

Warning: Changing the server time zone after the two databases have already *synchronized* (on page 29) should be an extremely rare occurrence that is treated with extreme caution. For more information, see the *MessageWay Reporting User's Guide* > *Change MessageWay Database Settings* in the online help.

Synchronize the Databases

You must synchronize the MessageWay Reporting and MessageWay databases to provide the MessageWay Reporting database with user information and data for running reports. If you grant MessageWay users access to MessageWay Reporting before you synchronize the databases, users will not be able to run reports.

When you synchronize MessageWay Reporting and MessageWay, you can either start a synchronization immediately using the ON DEMAND option, or you can schedule a synchronization in the future (the scheduled synchronization begins the next time that the interval you selected occurs).

> To synchronize MessageWay Reporting and MessageWay data:

1 In MessageWay Reporting, select System > Data Synchronization:

PSWITCH VessageWay Interactive reporting	4	•	1	i	Welcome, Administrator	×
System S	ettings					
Report Permissions	Data Synchronization	Databases	Options	About		
	🥟 La	ast Synchror	nization: 20)13-04-09	16:30 EDT	
Schedule						
How often should Me	ssageWay Interactive Re	porting synchro	onize its data	with Messag	geWay?	
Enable S	chedule	_				
Synchronize even	y 30 Minutes	•				
	_					_
Save						
On Demand						
You can sync on den	nand at any time.					

- **2** You have two options to synchronize data:
 - Schedule. Select Enable Schedule, then set the interval for the next time, and each successive time, you want data to synchronize. Click Save when finished.

 On Demand. If you do not want to set a schedule, you can start synchronizing data immediately. Click Sync Now. This will not disrupt the synchronization schedule that you may have set previously.

Caution: Depending on the size of your MessageWay system, the initial synchronization could take a long time and place additional strain on MessageWay. You might want to initiate synchronization at an off-peak time if you captured historical data during installation.

3 Log off MessageWay Reporting, then log on again.

Permit Access to Reports

The Report Permissions tab is where you set permission to view individual reports.



Note: The **Report Permissions** tab will display only for MessageWay users who have the **Modify Access Rights** right in MessageWay. Members of the MessageWay Administrators group will have this right by default.

MessageWay users and groups can view and run only those reports for which they have permission. If a user or group does not have permission to run a report, that report will not appear in the list of reports in the left pane.

Note: The Administrator user cannot immediately run reports. You must either add the Administrator user to a group that has permissions to run reports (such as the Administrators group) or grant the Administrator user permission to view reports in MessageWay Reporting. See *Permit Access to MessageWay Reporting* (on page 19).

Report or Monitor	Default MessageWay Group Permissions
File Details	Administrators and Report Users
File Summary	Administrators and Report Users
File Transfer Monitor	Administrators
File Transfer Summary	Administrators and Report Users
Message Count Monitor	Administrators
Message Details	Administrators
Message Summary	Administrators
System Access	Administrators
System Monitor	Administrators

The following table lists the default group permissions for each report.

You can remove these groups or add other users and groups to each report at any time.

Assign Report Permissions

MessageWay users and groups can view and run only those reports for which they have permission.

> To assign user and group permissions for a report:

1 Go to **System** > **Report Permissions**.

In the left pane, place a check next to the report for which you want to add permission. The right pane shows the MessageWay users and groups that have permission to run that report currently.

To add user or group permissions to multiple reports at the same time, do any of the following:

Select a reporting category (such as File) to select all reports under that category

- Check Select All reports
- Place a check next to multiple reports of your choosing

If you selected more than one report, users or groups who do not have permission to run all reports selected display in gray in the right panel.

Selecting multiple reports is useful for when you want to add a user or group to multiple reports at the same time.

2 In the right pane, click Add. The Add Users and Groups dialog opens.

Add Users and Groups	8
Select Type © User O Group	
Select a User mike	
	Add Cancel

3 Select **User** or **Group** to display a list of current MessageWay users or groups. The drop-down list updates accordingly based on your selection.

Tip: If a user or group does not appear in the list, you might need to synchronize MessageWay Reporting with MessageWay. See *Synchronize the Databases* (on page 29).

4 From the drop-down list, select the user or group that you want to give permission to run the selected report(s) and click Add.

Note: You can select only one user or group to add at a time.

A yellow message indicates that permission changes will take effect the next time the user logs on. Click **Don't Show This Message AgaiN** if want to hide this message in the future, or close the window.

Note! Don't Show This Again
Permission changes will take effect the next time a user logs on.

Note: If you add a user to a group or remove a user from a group in MessageWay, you must synchronize the MessageWay Reporting database with the MessageWay database before you will see changes in MessageWay Reporting. See *Synchronize the Databases* (on page 29).

5 Repeat the above steps for each user or group to whom you want to grant permission to run the selected report(s), or select other reports to configure.

Remove Report Permissions

MessageWay users and groups can view and run only those reports for which they have permission.

> To remove user and group permissions from a report:

$1 \quad {\rm Go \ to \ } System > Report \ Permissions.$

In the left pane, place a check next to the report for which you want to remove permission. The right pane shows the MessageWay users and groups that have permission to run that report currently.

To remove user or group permissions from multiple reports at the same time, do any of the following:

- Select a reporting category (such as File) to select all reports under that category
- Check Select All reports
- Place a check next to multiple reports of your choosing

If you selected more than one report, users or groups who do not have permission to run all reports selected display in gray in the right panel.

Selecting multiple reports is useful when you want to remove multiple report permissions for a single user or group. If you want to remove multiple report permissions for permission for multiple users or groups, we recommend that you remove users or groups from one report at a time.

- 2 In the right pane, select a user or group to remove permission to run the selected report(s). A message asks you to confirm the removal of that user or group.
- **3** Click **OK**. The user or group disappears from the list. That user or group no longer has access to the report, and will not be able to view it in the Reports List on the left side of the workspace.

Important: If you remove a user's permission to run a report, that user may still belong to a MessageWay group that has access to run the report. To completely remove permission to run the report for that user, you must remove that user from any groups that have permission to run that report.

Troubleshoot Logon Failure

If a user experiences connection failure when attempting to log on, investigate and remedy the following possible causes.

Tip: Look in the current *mwir_root*/logs/catalina.log for clues to what might be happening.

- Improper user credentials or user rights:
 - The user entered an incorrect username and/or password at logon, or the user does not have the Download Messages right in MessageWay. Catalina.log will show:

```
14:07:16.912 [http-bio-8080-exec-10]
INFO c.i.MWReporting.ws.SecurityServices - Authentication for
username <username> failed.
```

• The user does not have the **Generate Reports** right in MessageWay. Catalina.log will show:

```
14:13:12.750 [http-bio-8080-exec-6]
INFO c.i.MWReporting.ws.SecurityServices - Authentication for
username <username> failed due to insufficient rights.
```

Note that there was a successful XML exchange between MMWR> and MessageWay Service Interface in the log above, but the secondary check for the Generate Report right failed.

MessageWay issues:

- The MessageWay database may be shut down or be in the process of restarting.
- The MessageWay Service Interface is not running or is otherwise unreachable. This could be due to an unexpected application crash or a planned stoppage of the service. Catalina.log will show:
 14:08:15.336 [http-bio-8080-exec-7]

```
INFO c.i.MWReporting.ws.SecurityServices - Authentication for
username <username> failed.
```

Note that the XML authentication exchange that you saw in the previous logs above is not shown here, which means the actual exchange with the Service Interface never took place.

Network connectivity issues:

- The user's computer may not have network connectivity in general.
- The user's computer may not have network access to the MessageWay Reporting host server.
- The MessageWay Reporting host server may not have network access to the MessageWay server.

View Log Files

To get better visibility into your MessageWay Reporting system, the following types of log files are available.

Application Log Files

Application log files contain the ongoing activity of MessageWay Reporting.

The following application log files are stored in the *mwir_root*/logs directory:

Log File Name	Description
catalina. <i>date</i> .log	Log files with this prefix contain the standard output generated during the operation of the underlying Apache Tomcat operation. This file includes outputs from the MessageWay Reporting application.
	The current log file name will not include date.
	To monitor application activity it is recommended to tail the catalina.log file without the date indicator (current).
	Tip: Use this log to <i>troubleshoot logon failures</i> (on page 34).
localhost_access_log. <i>date</i> .log	Log files with this prefix contain resource access activity over the HTTP/S connections. This includes images, .css, javascript and .jsp pages. The current log file name will not include <i>date</i> .
mwreporting/mwreporting.date.log	Log files in this subdirectory contain the logs pertaining to the MessageWay Reporting application. The output in these files is also present in the catalina. <i>date</i> .log files. The current log file name will not include <i>date</i> .

Verbose SQL Log Files

A verbose output of SQL statements being executed against the MessageWay database can be switched on by modifying the *mwir_root*/webapps/shell/WEB-INF/config/logbackmw.xml file.

1 Find this section in the file:

```
<logger name="com.ipswitch.MWReporting.web" level="ERROR"/>
<logger name="com.ipswitch.MWReporting.business" level="ERROR"/>
<logger name="com.ipswitch.MWReporting.dao" level="ERROR"/>
<logger name="org.springframework.jdbc" level="ERROR"/>
<logger name="org.springframework.jdbc.core.StatementCreatorUtils"
level="ERROR"/>
```

And replace the logging levels shown below in **bold**:

```
<logger name="com.ipswitch.MWReporting.web" level="ERROR"/>
<logger name="com.ipswitch.MWReporting.business" level="ERROR"/>
<logger name="com.ipswitch.MWReporting.dao" level="ERROR"/>
<logger name="org.springframework.jdbc" level="DEBUG"/>
<logger name="org.springframework.jdbc.core.StatementCreatorUtils"
level="TRACE"/>
```

2 If you modify the **logbackmw.xml** file, you must *restart MessageWay Reporting* (on page 18). In the *mwir_root/bin* directory, use the following commands:

./shutdown.sh

./startup.sh

Below is a sample of a Verbose SQL Log File:

13:52:35.134 [ht	ttp-bio-8080-exec-241]	INFO c.i.MWReporting.ws.SecurityServices - Authentication for username administrator succeeded.
13:52:37.741 [ht	ttp-bio-8080-exec-243]	DEBUG o.s.jdbc.core.JdbcTemplate - Executing SQL query [SELECT GATEWAY_NAME FROM GATEWAYS]
13:52:37.752 [ht	ttp-bio-8080-exec-243]	DEBUG o.s.jdbc.datasource.DataSourceUtils - Fetching JDBC Connection from DataSource
13:52:38.019 [ht	ttp-bio-8080-exec-238]	DEBUG o.s.jdbc.core.JdbcTemplate - Executing prepared SQL query
13:52:38.020 [ht	ttp-bio-8080-exec-238]	DEBUG o.s.jdbc.core.JdbcTemplate - Executing prepared SQL statement [SELECT COUNT(*) AS TOTALCOUNT
13:52:38.020 [ht	ttp-bio-8080-exec-238]	DEBUG o.s.jdbc.datasource.DataSourceUtils - Fetching JDBC Connection from DataSource
13:52:38.031 [ht	ttp-bio-8080-exec-238]	TRACE o.s.jdbc.core.StatementCreatorUtils - Setting SQL statement parameter value: column index 1,
13:52:38.032 [ht	ttp-bio-8080-exec-238]	TRACE o.s.jdbc.core.StatementCreatorUtils - Setting SQL statement parameter value: column index 2,
13:52:38.170 [ht	ttp-bio-8080-exec-244]	DEBUG o.s.jdbc.core.JdbcTemplate - Executing prepared SQL query
13:52:38.170 [ht	ttp-bio-8080-exec-244]	DEBUG o.s.jdbc.core.JdbcTemplate - Executing prepared SQL statement [SELECT * FROM (SELECT MH.DM
13:52:38.179 [ht	ttp-bio-8080-exec-244]	DEBUG o.s.jdbc.datasource.DataSourceUtils - Fetching JDBC Connection from DataSource

Uninstall MessageWay Reporting

There are two main reasons to uninstall MessageWay Reporting, and the uninstall instructions are different for each. The first reason is to install a maintenance release, and the second reason is to completely uninstall MWIR as it is no longer needed. Following are uninstall instructions for both.

- 1 In order to install a maintenance release, only the MWIR binaries need to be removed. The reporting-related database (both MessageWay and Datamart) must NOT be removed. Follow these instructions to remove the MWIR binaries in preparation for installing a maintenance release:
 - Log on as user **root**.
 - Shut down tomcat in *mwir_root/bin* using the following command: ./shutdown.sh

NOTE: As of MessageWay Reporting version 1.3, the name of the unistall folder and binary have changed, so follow the appropriate section if you are uninstalling version 1.3 or higher, or uninstalling versions prior to 1.3.

• To uninstall version 1.3 or higher:

Go to mwir_rootl_MessageWay Reporting_installation directory and type the following command:

./Uninstall MessageWay Reporting Installation

and respond to the prompts accordingly. After the uninstall is complete, you may need to delete .../mwir directory.

• To uninstall versions prior to 1.3:

Go to *mwir_rootl_MessageWay Interactive Reporting_installation* directory and type the following command:

./Uninstall MessageWay Interactive Reporting Installation

and respond to the prompts accordingly. After the uninstall is complete, you may need to delete .../mwir directory.

- Proceed to section *Extract the perimeter server install file* (on page 9) and install the maintenance release.
- **2** In order to uninstall MWIR as it is no longer needed, the MWIR binaries need to be removed, as well as the reporting-related database (Datamart) and all reporting-related database artifacts from the MessageWay database. Follow these instructions to remove MWIR as it is no longer needed:
 - Log on as user **root**.
 - Shut down tomcat in *mwir_root/bin* using the following command: ./shutdown.sh
 - Drop the reporting-related database schema (*mwir_schema*) using the following command from a sqlplus prompt:

DROP USER mwir_schema cascade

IMPORTANT: Make sure you drop *mwir_schema* and not *mway_schema*. Be sure you have sufficient privileges to execute the drop command.

• Uninstall reporting-related database artifacts from the MessageWay database (*mway_schema*). Execute the following script at

mwir_root/sql/MessageWay/Oracle/oracle-mway-remove-mwir-objects.sql

sqlplus syntax: sqlplus mway_schemalmway_passwd@mway_connect_identifier @oracle-mway-remove-mwir-objects.sql **NOTE**: As of MessageWay Reporting version 1.3, the name of the unistall folder and binary have changed, so follow the appropriate section if you are uninstalling version 1.3 or higher, or uninstalling versions prior to 1.3.

• To uninstall version 1.3 or higher:

Go to mwir_rootl_MessageWay Reporting_installation directory and type the following command:

./Uninstall MessageWay Reporting Installation

and respond to the prompts accordingly. After the uninstall is complete, you may need to delete .../mwir directory.

• To uninstall versions prior to 1.3:

Go to *mwir_rootl_MessageWay Interactive Reporting_installation* directory and type the following command:

./Uninstall MessageWay Interactive Reporting Installation

and respond to the prompts accordingly. After the uninstall is complete, you may need to delete .../mwir directory.

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