# MessageWay Reporting Installation and Configuration Guide for MSSQL



#### **Document History**

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# Introduction

MessageWay Reporting<sup>™</sup> 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 19) Configure MessageWay Reporting (on page 20) Troubleshoot Logon Failure (on page 35) View Log Files (on page 37) Uninstall MessageWay Reporting (on page 39)

# System Requirements

#### **Software Requirements**

Operating Systems	Windows Server 2012 Standard R2 64-bit Windows Server 2016 Standard Windows Server 2019 Standard
Database Platforms (MessageWay)	Microsoft SQL Server 2012 Microsoft SQL Server 2014 Microsoft SQL Server 2016 Microsoft SQL Server 2019
Database Platforms (Datamart)	Microsoft SQL Server 2012 Microsoft SQL Server 2014 Microsoft SQL Server 2016 Microsoft SQL Server 2019
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 8 GB 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.

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#### MessageWay Requirements

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

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.zip*. 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 unzip the *MWIR\_SQL\_release.zip* file. This creates a subdirectory of the name of the install file.
- **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 Go to *mwir\_sql\_root*\sql\MessageWay\MSSQL, where you will find sql files that you need to execute within SQL Server Management Studio. You will also find *mssql\_mway\_guide.txt* with the following instructions.
- 2 Use SQL Server Management Studio to access your pre-existing MessageWay database (referred to as *mway\_database* in this document). Regarding capturing historical data (third bullet point below), this will cause pre-existing Message and Audit Log information to be captured in the reporting database as well as new data going forward. Skipping this step will cause reporting to only capture new data going forward.
  - Copy contents of **1-mssql-mway-create-tables.sql** into a New Query window (using *mway\_database*) and Execute.
  - Copy contents of **2-mssql-mway-create-triggers.sql** into a New Query window (using *mway\_database*) and Execute.
  - If you want to capture historical data, copy the contents of
     **3-mssql-mway-capture-history.sql** into a New Query window (using *mway\_database*) and Execute. If you do not want to capture historical data, skip this step.

• Copy contents of **4-mssql-mway-initial-data-load.sql** into a New Query window (using *mway\_database*) and execute.

### > Prepare the Reporting database:

- 1 Go to *mwir\_sql\_root*\sql\DataMart\MSSQL, where you will find sql files that you need to execute within SQL Server Management Studio. You will also find *mssql\_datamart\_guide.txt* with the following instructions.
- **2** Before reporting-related objects are loaded into the database, you must create a dedicated database for reporting.
  - Use SQL Server Management Studio to create a new database, for example **datamart** (referred to as *mwir\_database*).
  - Next create a new user, for example mwreporting (referred to as *mwir\_user*), and select SQL Server authentication. Under Server Roles, make sure *mwir\_user* has public and sysadmin selected. Under User Mapping, make sure *mwir\_database* and *mway\_database* are both selected, and *mwir\_user* has db\_owner and public selected for both.

**Note**: As of the time this document was written, MessageWay Reporting does not support Windows Authentication for MSSQL. You must use SQL Authentication.

**Note**: For more detail about creating a new database and new user, refer to the *MessageWay Installation Guide* > *Installing a MessageWay MSSQL Database Manually*.

- **3** Once the reporting database is created, use SQL Server Management Studio to access your new reporting database.
  - Copy contents of **1-mssql-datamart-create-tables.sql** into a New Query window (using *mwir\_database*) and Execute.
  - Copy contents of **2-mssql-datamart-create-triggers.sql** into a New Query window (using *mwir\_database*) and Execute.
  - Copy contents of **3-mssql-datamart-initial-data-load.sql** into a New Query window (using *mwir\_database*) and Execute.

### > Extract the perimeter server install file:

- 1 Log on as an *Administrative* level user.
- 2 In the MessageWay Reporting install package that you received, there should be a file named *MessageWayReporting.exe*. 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, right-click on the following install executable, select **Run as administrator**, select **Yes** to allow this program to make changes to this computer, and proceed to the next section:

### MessageWayReporting.exe

### > Install MessageWay Reporting Application:

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

**1** An installation window appears as shown below.

MessageWay Interactive Reportir	
	Introduction
<ul> <li>Introduction</li> <li>License Agreement</li> <li>Choose Install Folder</li> <li>MessageWay Interactive Reporting Port Number</li> <li>MessageWay Connection</li> <li>DataMart Connection</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	InstallAnywhere will guide you through the installation of MessageWay Interactive Reporting. It is strongly recommended that you quit all programs before continuing with this installation. Click the 'Next' button to proceed to the next screen. If you want to change something on a previous screen, click the 'Previous' button. You may cancel this installation at any time by clicking the 'Cancel' button.
InstallAnywhere Cancel	Previous

Note: To cancel the installation at any time during the process, click Cancel.

2 Click Next on this screen. The *Choose Install Folder* screen appears.

Contractive Reporti	ing
	Choose Install Folder
<ul> <li>Introduction</li> <li>License Agreement</li> <li>Choose Install Folder</li> <li>MessageWay Interactive Reporting Port Number</li> <li>MessageWay Connection</li> <li>DataMart Connection</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	Please choose a destination folder for this installation.         Where Would You Like to Install?         C:\Program Files (x86)\messageway\mwir         Restore Default Folder       Choose
InstallAnywhere Cancel	Previous

**3** Either accept or change the *install folder* where the MessageWay Reporting application will be installed, then click **Next**. The *MessageWay Reporting Port Number* screen appears.

	MessageWay Interactive Reporting Port Number
<ul> <li>Introduction</li> <li>License Agreement</li> <li>Choose Install Folder</li> <li>MessageWay Interactive Reporting Port Number</li> <li>MessageWay Connection</li> <li>DataMart Connection</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	Enter Port Number for MessageWay Interactive Reporting Port 8778 reserved for TomCat; DO NOT USE !! Port Number: 80
InstallAnywhere Cancel	Previous

**4** Either accept or change the *port number* used to connect to the MessageWay Reporting application, then click **Next**. The *MessageWay Connection Information* (Service Interface) screen appears.

MessageWay Interactive Reporting		
	MessageWay Connection Information	
<ul> <li>Introduction</li> <li>License Agreement</li> <li>Choose Install Folder</li> <li>MessageWay Interactive Reporting Port Number</li> <li>MessageWay Connection</li> </ul>	Enter the information for the MessageWay Service Interface Connection	
<ul> <li>DataMart Connection</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	Server Name (or IP Address): localhost Port Number (Unsecure): 6280 Port Number (Secure): 6243 SSL Fingerprint: 59:57:1B:C2:D6:FA:B1:55:35:DC:DA:2B:BF:FE:2!	
InstallAnywhere Cancel	Previous <u>N</u> ext	

5 Typically you would only need to provide the *Server Name/IP Address* of the application server where the MessageWay Service Interface is located and let the other fields default to the shown values. Otherwise change values accordingly, then click Next. The *MessageWay Connection Information* (Database Type) screen appears.

**Note**: The SSL Fingerprint is the MD5 version of the Service Interface certificate. The one shown above is for our test certificate that is shipped with MessageWay.

MessageWay Interactive Reporti	
	MessageWay Connection Information
<ul> <li>Introduction</li> <li>License Agreement</li> <li>Choose Install Folder</li> <li>MessageWay Interactive Reporting Port Number</li> <li>MessageWay Connection</li> <li>DataMart Connection</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	Enter the information for the MessageWay Database Connection  Database Type  Microsoft SQLServer  MySQL  Oracle
InstallAnywhere	Previous

**6** Select the appropriate *database type* for your MessageWay database, then click **Next**. The *MessageWay Connection Information* (Database Credentials for MessageWay database) screen appears.

	MessageWay Connection Informat
<ul> <li>Introduction</li> <li>License Agreement</li> <li>Choose Install Folder</li> <li>MessageWay Interactive Reporting Port Number</li> <li>MessageWay Connection</li> <li>DataMart Connection</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	Enter the information for the MessageWay Database Connection Database Name: MessageWay Database Server Name (or IP Address): Port Number 1433
Cancel	Previous Next

7 Typically you would only need to provide the *Server Name/IP Address* of the database server where the MessageWay Database is located and let the other fields default to the shown values. Otherwise change values accordingly, then click **Next**. The *MessageWay Connection Information* (Username/Password) screen appears.

MessageWay Interactive Reporti	ng
	MessageWay Connection Information
<ul> <li>Introduction</li> <li>License Agreement</li> <li>Choose Install Folder</li> <li>MessageWay Interactive Reporting Port Number</li> <li>MessageWay Connection</li> <li>DataMart Connection</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	Enter the information for the MessageWay Database Connection Username: Password:
InstallAnywhere Cancel	Previous

8 Enter the *Username* and *Password* required to connect to your MessageWay database, then click **Next**. The *DataMart Connection Information* (Database Type) screen appears.

**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.

MessageWay Interactive Report	ing 🗖 🗖 🗙
	DataMart Connection Information
<ul> <li>Introduction</li> <li>License Agreement</li> <li>Choose Install Folder</li> <li>MessageWay Interactive Reporting Port Number</li> <li>MessageWay Connection</li> </ul>	Enter the information for the DataMart Database Connection
<ul> <li>DataMart Connection</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	Database Type Microsoft SQLServer MySQL Oracle
InstallAnywhere Cancel	Previous

**9** Select the appropriate *database type* for your DataMart database, then click **Next**. The *DataMart Connection Information* (Database Credentials for DataMart database) screen appears.

	DataMart Connection Information
<ul> <li>Introduction</li> <li>License Agreement</li> <li>Choose Install Folder</li> <li>MessageWay Interactive Reporting Port Number</li> <li>MessageWay Connection</li> </ul>	Enter the information for the DataMart Database Connection
<ul> <li>DataMart Connection</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	Database Name: Datamart Database Server Name (or IP Address):
	Port Number 1433
Cancel	Previous

**10** Typically you would only need to provide the *Server Name/IP Address* of the database server where the DataMart Database is located and let the other fields default to the shown values. Otherwise change values accordingly, then click **Next**. The *DataMart Connection Information* (Username/Password) screen appears.

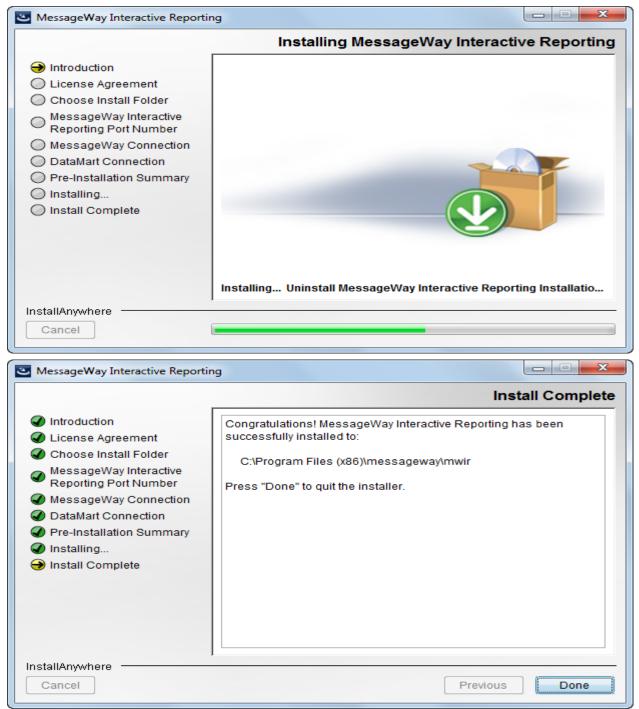
MessageWay Interactive Reporti	DataMart Connection Informati
<ul> <li>Introduction</li> <li>License Agreement</li> <li>Choose Install Folder</li> <li>MessageWay Interactive Reporting Port Number</li> <li>MessageWay Connection</li> <li>DataMart Connection</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	Enter the information for the DataMart Database Connection Username: Password:
Cancel	Previous Next

**11** Enter the *Username* and *Password* required to connect to your DataMart database, then click **Next**. The *Pre-Installation Summary* screen appears.

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

MessageWay Interactive Reporting	
	Pre-Installation Summary
<ul> <li>License Agreement</li> <li>Choose Install Folder</li> <li>MessageWay Interactive Reporting Port Number</li> <li>MessageWay Connection</li> <li>DataMart Connection</li> <li>Pre-Installation Summary</li> <li>Installing</li> <li>Install Complete</li> </ul>	Please Review the Following Before Continuing: Install Folder: C:\Program Files (x86)\messageway\mwir Shortcut Folder: C: \Users\rmartini\AppData\Roaming\Microsoft\Windows\Star Menu\Programs\messageway\mwir Product Features: Typical Disk Space Information (for Installation Target): Required: 531,205,340 Bytes
InstallAnywhere	Previous

Review the information displayed and either click **Install** to proceed, or **Previous** to change settings. If you click **Install**, then the *Installing MessageWay Reporting* screen appears, followed by the *Install Complete* screen (wait for the install to complete).



Click **Done** to exit the install. The installation is now complete.

### 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 1548MB 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, at the command prompt change to *mwir\_root*\**bin** and execute the following command to increase memory:

```
Tomcat9-MWReporting.exe //US//Tomcat9-MWReporting --JvmMx=1548
```

Change the --JvmMx=1548 to the desired value. Note that value represents MB.

**Note**: As of the time this document was written, JvmMx=1548 is the maximum value that will work on most 32-bit applications, so increasing this value from the default most likely will cause the service not to start.

### 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><mark>396</mark></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><mark>accessclass</mark></param-value>
```

and restart MessageWay Reporting. To enable Access Classes in MessageWay, see section *Controlling User Access with Access Classes* (on page 22).

### 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.

# 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. Perform the following commands logged on as the user who installed MessageWay Reporting.

To start the application server, go to Windows Services and start the service named **MessageWay Reporting – Tomcat**.

To stop the application server, go to Windows Services and stop the service named **MessageWay Reporting – Tomcat**.

#### 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 35).

### > 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 30) 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 30) 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 18) 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	? X			
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					
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 18) 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
A kristina	Remove
Inherit new users/groups Rights Allow/Deny Effective	
Perform Location Actions	
Read Message Properties	
Modify Message Properties       View Messages	
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     Image: Comparison of the state of the st	
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 going to Windows Services and starting the service named **MessageWay Reporting Tomcat**.
- **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:  $S_{1} \neq D_{2} \neq I_{2} = T_{1} = T_{2} = (22)$ 

Set Database Time Zones (on page 28) Synchronize the Databases (on page 30) Permit Access to Reports (on page 31)

### **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**:

System Settings	PSWITCH NessageWay Interactive reporting			۰	1	i	We	elcome, Administrator	×
Report Permissions Data Synchronization Databases About   Database Settings   The Reporting database will synchronize with the production MessageWay database.   MessageWay Reporting   MessageWay Reporting   Database URL [dbc: coracle: thin:@//192.168.196.209:1521/orcl.   Username mway   Password	Sustan 9	ottinge							
Database Settings The Reporting database will synchronize with the production MessageWay database. MessageWay Reporting Database URL jdbc. oracle: thin:@//192.168.196.209:1521/orcl Username mway Password 	System 3	seungs							
The Reporting database will synchronize with the production MessageWay database.          MessageWay       Reporting         Database URL       [jdbc:oracle:thin:@//192.168.196.209:1521/orcl         Username       mway         Password	Report Permissions	Data Synchronization	Databases	Options	About				
The Reporting database will synchronize with the production MessageWay database.          MessageWay       Reporting         Database URL       [jdbc:oracle:thin:@//192.168.196.209:1521/orcl         Username       mway         Password									
MessageWay Reporting   Database URL jdbc:oracle:thin:@//192.168.196.209:1521/ord   Username mway   Password	Database Se	ttings							
Database URL jdbc:oracle:thin:@//192.168.196.209:1521/orcl Username mway Password •••••••• Time zone of your MessageWay system @	The Reporting databa	ase will synchronize with the	e production Me	ssageWay	database.				
Database URL jdbc:oracle:thin:@//192.168.196.209:1521/orcl Username mway Password •••••••• Time zone of your MessageWay system @									
jdb::oracle:thin:@//192.168.196.209:1521/orcl Username mway Password Time zone of your MessageWay system @	MessageWay	Reporting							
jdb::oracle:thin:@//192.168.196.209:1521/orcl Username mway Password Time zone of your MessageWay system @									]
Username mway Password  Time zone of your MessageWay system @	Database URL								
mway         Password         •••••••         Time zone of your MessageWay system @	jdbc:oracle:thin:	@//192.168.196.209:1521	l/orcl						
Password  Time zone of your MessageWay system @	Username								
Time zone of your MessageWay system @	mway								
Time zone of your MessageWay system @	Password	Password							
	••••••								
	Time zone of you	ur MaaaagaWay ayatam @							
			·						

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 30) 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**:

NessageWay		alı.	۰	1	i		Welcome, Administrator	×
System S	Settings	\$						
Report Permissions	Data Synchroniz	ation D	atabases	Options	About			
Schedule How often should Me	Schedule				)13-04-09 ·		r	
Save	Save							
On Demand You can sync on der	On Demand You can sync on demand 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.

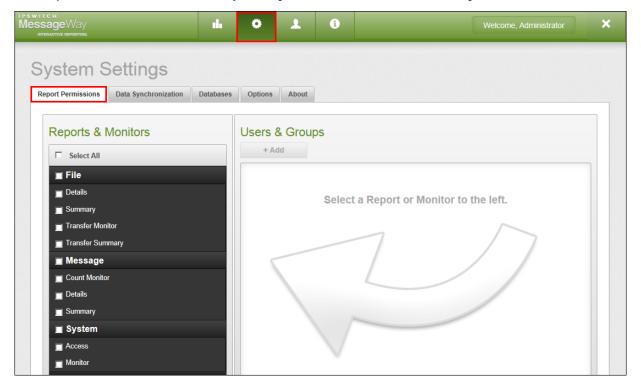
 On Demand. If you do not want to set a schedule, you can start synchronizing data immediately. Click Sync Now. This will not disrupt the synchronization schedule that you may have set previously.

**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 20).

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	0
Select Type © User © 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 30).

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.

Permission changes will take effect the next time a user logs on.	Note!	
Permission changes will take ellect the next time a user logs on.		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 30).

**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:

```
<?xml version="1.0" ?>
<LogonRsp>
<Status>Fail</Status>
<Error ErrorId="203">Invalid User Id/Password</Error>
<ServerTime>20130509140723136</ServerTime>
<ServerTimeGMT>20130509180723136</ServerTimeGMT>
</LogonRsp>
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 35).
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 19). Go to Windows Services and restart the service named **MessageWay Reporting – Tomcat**.

Below is a sample of a Verbose SQL Log File:

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

**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\_root\\_MessageWay Reporting\_installation* directory, right-click on the following uninstall executable, select **Run as administrator**, and select **Yes** to allow this program to make changes to this computer:

Uninstall MessageWay Reporting Installation.exe

and respond to the prompts accordingly.

- To uninstall versions prior to 1.3: Go to *mwir\_root\\_MessageWay Interactive Reporting\_installation* directory, right-click on the following uninstall executable, select **Run as administrator**, and select **Yes** to allow this program to make changes to this computer: Uninstall MessageWay Interactive Reporting Installation.exe and respond to the prompts accordingly.
- 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:
  - Go to Windows Services and stop the service named MessageWay Reporting Tomcat.
  - Delete the reporting-related database (*mwir\_database*) using SQL Server Management Studio.

**IMPORTANT**: Make sure you delete *mwir\_database* and not *mway\_database*. Be sure you have sufficient privileges to execute the delete command.

• Uninstall reporting-related database artifacts from the MessageWay database (*mway\_database*).

**IMPORTANT**: At the time this document was written, there is no automated way to remove the reporting-related database artifacts from the MessageWay database. Please contact MessageWay Technical Support for further instructions.

**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\_root\\_MessageWay Reporting\_installation* directory, right-click on the following uninstall executable, select **Run as administrator**, and select **Yes** to allow this program to make changes to this computer:

Uninstall MessageWay Reporting Installation.exe

and respond to the prompts accordingly.

• To uninstall versions prior to 1.3:

Go to *mwir\_root\\_MessageWay Interactive Reporting\_installation* directory, right-click on the following uninstall executable, select **Run as administrator**, and select **Yes** to allow this program to make changes to this computer:

Uninstall MessageWay Interactive Reporting Installation.exe

and respond to the prompts accordingly.

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