



## INTELLIGENT EVENT MODULE BASICS

The IBM WebSphere MQ 7.0 Intelligent Event Module (IEM) enables you to automate real-time monitoring of IBM® WebSphere® MQ (version 7.0) and capture the critical information you need for effective enterprise management.

The IBM WebSphere MQ 7.0 IEM provides ConsoleWorks® with a watch-list of text messages, including error codes, application warnings, and status alerts, produced by WebSphere MQ. ConsoleWorks watches for these messages, called Events, in the data streams of your managed applications.

### Events

When ConsoleWorks detects an Event, it alerts you to the Event as it is happening, records the circumstances surrounding the Event, and automatically performs the default or customer-configured responses associated with that Event.

### Scans

IEMs come with Events pre-arranged in logical groupings, called Scans™. Working with a Scan—or a combination of Scans—instead of hundreds of individual Events simplifies managing Events across your enterprise.

## IBM WEBSHERE MQ 7.0 IEM AT A GLANCE

Events:	1172
Scans:	1 Master 6 Event Severity
Filename:	<code>cw_iem-ibm_websphere7-0001.bin</code>
License Required:	<code>CONWRKS-DB-WEBSHERE.lic</code>
Connector Required:	Syslog (for UNIX®) Windows Event Forwarder (for Microsoft® Windows®)

## USING THE IBM WEBSHERE MQ 7.0 IEM

To use this IEM, complete the following tasks:

1. Download the IEM from the TDI web site.
2. Import the IEM into ConsoleWorks.
3. Associate the Scans from the IEM with the information sources you want to manage.

## Download the IEM

1. Obtain a license for the IBM WebSphere MQ 7.0 IEM. To obtain this license, contact TDI ([sales@tditx.com](mailto:sales@tditx.com)).
2. Connect to the TDI web site: ([www.tditx.com/support\\_iemdownloads.asp](http://www.tditx.com/support_iemdownloads.asp)).
3. On the Product Downloads page, locate and click **IBM WebSphere MQ 7.0**.
4. In the Connect to support2.tditx.com dialog box, enter your User name and Password, and click **OK**. To obtain a User name and Password, contact TDI Support ([support@tditx.com](mailto:support@tditx.com)).
5. Save the file (`cw_iem-ibm_websphere7-0001.bin`) to a directory accessible from your client workstation.

## Import the IEM

1. On the main menu:
  - (*ConsoleWorks 3.x*) click **Admin > Database > Import IEM**.
  - (*ConsoleWorks 4.x*) click **Events > IEMs**.
2. On the Import IEM page, click **Browse**.
3. On the Choose file dialog box, locate and double-click `cw_iem-ibm_websphere7-0001.bin`.
4. On the Import IEM page, click **Import IEM**, and wait for the **IEM Import Completed** or the **Import Successful** message to appear before attempting to associate Scans.

## Associate the Scan

Associate the Scans with the information sources you want to monitor. When you associate Scans with an information source, you are specifying that ConsoleWorks scan the data streams of that source for the Events contained in the Scans.

### Example: To associate Scan WSMQ7\_ERROR (ConsoleWorks 3.x)


1. On the ConsoleWorks main menu, click **Manage > Scans > Show Scans**.
2. On the Show Scans page, in the Scans column, click **WSMQ7\_ERROR**.
3. On the Scan: WSMQ7\_ERROR page, in the Unassociated Consoles column, select the check



boxes next to the names of the managed applications you want to associate with the Scan.

4. Click **Update Scan**.

**Example: To associate Scan WSMQ7\_ERROR (ConsoleWorks 4.1 & ConsoleWorks 4.3)**

1. On the main menu, click **Events > Scans > Edit**.  
*The Edit Scan page appears.*
2. On the Name drop-down list, click **WSMQ7\_ERROR**.
3. Click , then click **Add**.  
*The Add Consoles selector appears.*
4. Select the Consoles you want associated with the Scan, review your choices in the Selected Consoles window, and click **OK**.
5. Click **Save**.

**SCANS AVAILABLE IN THE IBM WEBSPPHERE MQ 7.0 IEM**

The IBM WebSphere MQ 7.0 IEM contains a Master Scan and six Event Severity Scans.

**Master Scan**

The Master Scan, **wsmq7**, is the top-level Scan. It references all the other Scans in the IEM. When you associate the Master Scan with an information source, you are specifying that ConsoleWorks scan the data streams of that information source for any of the IEM's 1,172 Events.

**Event Severity Scans**

The IBM WebSphere MQ 7.0 IEM contains six Event Severity Scans. Use one or more of these Scans to monitor an information sources for Events based on their Severity level.

The IEM provides the following Event Severity Scans:

- WSMQ7\_SYSTEM\_ERROR                      3 Events
- WSMQ7\_STOP\_ERROR                         205 Events
- WSMQ7\_SEVERE\_ERROR                     105 Events
- WSMQ7\_ERROR                               226 Events
- WSMQ7\_WARNING                            298 Events
- WSMQ7\_INFORMATIONAL                    335 Events

**SAMPLE IBM WEBSPPHERE MQ 7.0 IEM EVENTS**

The IBM WebSphere MQ 7.0 IEM provides you with names, message texts, Severity ratings, descriptions, explanations, and recommended responses for Events produced by WebSphere MQ.

This section displays samples of the information you receive for each Event in the IBM WebSphere MQ 7.0 IEM.

**Sample Event 1**

- Name:**                      WSMQ7\_AMQ8140
- Message:**                AMQ8140
- Severity:**                STOP\_ERROR
- Description:**            Resource timeout error.
- Explanation:**          A timeout occurred in the communication between internal WebSphere MQ queue manager components. This is most likely to occur when the system is heavily loaded.
- Response:**                Wait until the system is less heavily loaded, then try the command again.

**Sample Event 2**

- Name:**                      WSMQ7\_AMQ4034
- Message:**                AMQ4034
- Severity:**                WARNING
- Description:**            Message too long.
- Explanation:**          You tried to put a message on a queue that was bigger than the maximum allowed for the queue or queue manager. The request to put a message on a queue returned a reason code indicating that the data length of the message exceeds the maximum allowed in the definition of the queue.
- Response:**                Either change the **MAXMSGL** attribute of the queue so that it is equal to or greater than the length of the message, or reduce the length of the message being put on the queue.

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