



INTELLIGENT EVENT MODULE BASICS

The Microsoft SQL Server 2005 Intelligent Event Module (IEM) enables you to automate real-time monitoring of Microsoft® SQL Server™ (2000 to 2005) and capture the critical information you need for effective enterprise management.

The Microsoft SQL Server 2005 IEM provides *ConsoleWorks*® with a watch-list of text messages, including error codes, system warnings, and status alerts, produced by SQL Server. *ConsoleWorks* watches for these messages, called Events, in the information streams of your managed databases.

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.

MICROSOFT SQL SERVER 2005 IEM AT A GLANCE

Events:	3451
Scans:	1 Master 17 Event Severity
Filename:	<code>cw_iem-microsoft_ms_sql-0001.bin</code>
License Required:	<code>CONWRKS-DB-MSSQLSVR.lic</code>
Connector Required:	Syslog

USING THE MICROSOFT SQL SERVER 2005 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 databases you want to manage.

To Download the IEM

1. Install the license for the Microsoft SQL Server 2005 IEM. To obtain this license, contact your TDi Solutions Team Manager (sales@tditx.com).
2. Move to the TDi web site (www.tditx.com/support_iemdownloads.asp).
3. On the Product Downloads page, locate and click **Microsoft SQL Server**.
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).
5. Save the file (`cw_iem-microsoft_ms_sql-0001.bin`) to a directory accessible from your client workstation.

To Import the IEM

1. On the *ConsoleWorks* main menu, click **Admin > Database > Import IEM**.
2. On the Import IEM page, click **Browse**.
3. On the Choose file dialog box, locate and double-click `cw_iem-microsoft_ms_sql-0001.bin`.
4. On the Import IEM page, click **Import IEM**, and wait for the **IEM import completed** message to appear on the page before associating the IEM's Scans.

To Associate the Scans

Associate the IEM's Scans with the SQL Server databases you want *ConsoleWorks* to monitor. When you associate Scans with a database, you are specifying that *ConsoleWorks* scan the information streams of that database for the Events contained in the Scans.

Example: To associate MSSQL_SEV_25 Scan

1. On the *ConsoleWorks* main menu, click **Manage > Scans > Show Scans**.
2. On the Show Scans page, in the Scans column, click **MSSQL_SEV_25**.
3. On the Scan: MSSQL_SEV_25 page, in the Unassociated Consoles column, select the check boxes next to the names of the managed databases you want to associate with the Scan.
4. Click **Update Scan**.

For detailed instructions on associating Scans, please refer to the *ConsoleWorks* user's guide.



SCANS AVAILABLE IN THE MICROSOFT SQL SERVER 2005 IEM

The Microsoft SQL Server 2005 IEM contains a Master Scan and 17 Event Severity Scans.

Master Scan

The Master Scan, **MSSQL**, is the top-level Scan. It references all the other Scans in the IEM. When you associate the Master Scan with a database, you are specifying that *ConsoleWorks* scan the information streams of that database for any of the IEM's 3,451 Events.

Event Severity Scans

The Microsoft SQL Server 2005 IEM contains 17 Event Severity Scans. Use one or more of these Scans to monitor SQL Server databases for Events based on their Severity level.

The IEM provides the following Event Severity Scans:

• MSSQL_SEV_25	3 Events
• MSSQL_SEV_24	2 Events
• MSSQL_SEV_23	6 Events
• MSSQL_SEV_22	7 Events
• MSSQL_SEV_21	50 Events
• MSSQL_SEV_20	66 Events
• MSSQL_SEV_19	8 Events
• MSSQL_SEV_18	4 Events
• MSSQL_SEV_17	48 Events
• MSSQL_SEV_16	2219 Events
• MSSQL_SEV_15	165 Events
• MSSQL_SEV_14	46 Events
• MSSQL_SEV_13	8 Events
• MSSQL_SEV_12	1 Event
• MSSQL_SEV_11	143 Events
• MSSQL_SEV_10	509 Events
• MSSQL_SEV_00	166 Events

SAMPLE MICROSOFT SQL SERVER 2005 IEM EVENTS

The Microsoft SQL Server 2005 IEM provides you with names, message texts, Severity ratings, explanations, causes, and recommended responses (where available) for Events produced by SQL Server.

This section displays samples of the information you receive for each Event in the Microsoft SQL Server 2005 IEM.

Sample Event 1

Name:	MSSQL_00207
Message:	Error: 207,
Severity:	SEV_16
Explanation:	Invalid column name.
Cause:	This error occurs when a column referenced in a Transact-SQL statement was not found in any table specified in the FROM clause of the query.
Response:	Change the column name to a column name present in one of the tables referenced in the query.

Sample Event 2

Name:	MSSQL_00109
Message:	Error: 109,
Severity:	SEV_15
Explanation:	There are more columns in the INSERT statement than values specified in the VALUES clause. The number of values in the VALUES clause must match the number of columns specified in the INSERT statement.
Cause:	This error occurs when more columns are listed in the INSERT statement than values specified in the VALUES clause. The number of values in the VALUES clause must match the number of columns specified in the INSERT statement.
Response:	Rewrite the INSERT statement, ensuring that the number of columns specified matches the number of columns in the VALUES clause.

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