

CA Nimsoft Monitor

Probe Guide for ADO Database Gateway

adogtw v2.7 series



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Documentation Changes

This table describes the version history for this document.

Version	Date	What's New?
2.7	Mar 2014	Documentation on the initial web-based GUI version of the ADO Database Gateway probe. (Previous versions of this probe are configured using Infrastructure Manager).

Chapter 1: Overview

ActiveX Data Objects (ADO) Gateway is a database gateway probe between CA Nimsoft Monitor and a database. The probe reads data from database tables using user-defined SQL statements for monitoring database performance. The probe uses SQL Queries to monitor the database performance parameters like, the response time and number of rows returned. Based on the database performance, the probe posts Quality of Service (QoS) messages to the CA Nimsoft Monitor.

This section contains the following topics:

[About This Guide](#) (see page 7)

[Related Documentation](#) (see page 7)

[Preconfiguration Requirements](#) (see page 8)

About This Guide

This guide is for the CA Nimsoft Monitor Administrator to help understand the configuration of the ADO Database Gateway probe and provides the following information:

- Overview of the ADO Database Gateway probe and related documentation for previous probe versions.
- Configuration details of the probe.
- Field information and common procedures for configuring the probe.

Important! Description for the intuitive GUI fields is not included in the document.

Related Documentation

Related Documentation

Documentation for other versions of the adogtw probe

The [Release Notes](#) for the adogtw probe

[User documentation for the Admin Console](#)

Monitor Metrics Reference Information for CA Nimsoft Probes

(http://docs.nimsoft.com/prodhelp/en_US/Probes/ProbeReference/index.htm)

Preconfiguration Requirements

This section contains the preconfiguration requirements for the CA Nimsoft ADO Database Gateway probe.

Supported Platforms

Refer to the [Nimsoft Compatibility Support Matrix](#) for the latest information on supported platforms. See also the [Support Matrix for Nimsoft Probes](#) for more information on the ADO Database Gateway probe.

Chapter 2: Configuration Details

The ADO Database Gateway probe is configured to establish an ADO connection between the probe and the database. You can create a connection using different types of database providers. You can also create profiles for monitoring database transactions.

This section contains the following topics:

[adogtw Node](#) (see page 9)

[Configure a Node](#) (see page 13)

[Add Connection](#) (see page 14)

[Manage Profiles](#) (see page 14)

[Delete Connection](#) (see page 14)

[Delete Profile](#) (see page 15)

adogtw Node

This node lets you view the probe information and configure log properties of the probe. You can also add an ADO connection to access a database.

Navigation: adogtw

Set or modify the following values as required:

adogtw > Probe Information

This section provides information about the probe name, probe version, start time of the probe, and the probe vendor.

adogtw > General Configuration Setup

This section lets you configure the log properties.

- Log File: defines the log file name.
- Log Level: specifies the detail level of the log file.
Default: 0-fatal
- Severity: specifies the severity level of connection error alarm.

adogtw > Add New Connection

This section lets you add an ADO connection to access the database.

- Connection Name: defines the ADO connection name.
- Connection Type: specifies if the ADO connection type is Object Linking and Embedding Database (OLEDB) connectivity or Open Database Connectivity (ODBC).

Default: OLEDB

- Provider: specifies the database provider that is used for establishing ADO connection.

Note: If you select ODBC as the connection type, then instead of Provider, you can select the **Data Source Name** (DSN). DSN is a data structure that contains information about a database.

- Initial Catalog: defines the database name.
- Data Source: defines the database server.
- User ID: defines the database user login ID.
- Parameters: defines the additional parameters for establishing an ADO connection.

Connection-<Connection Name> Node

This node lets you view the connection properties. Refer to the **Add New Connection** section of the **adogtw** node for field description.

Note: This node is referred to as Connection-*connection name* node in the document and is user-configurable.

<Connection Name> Node

This node lets you configure the connection setup. Refer to the **Add New Connection** section of the **adogtw** node for field description.

Note: This node is referred to as *connection name* node in the document and is user-configurable.

Navigation: adogtw > Connection-*connection name* > *connection name*

connection name > Add New Profile

This section lets you create a profile for accessing and monitoring the database.

- Name: defines the profile name.
- Select Profile: specifies if the profile is a Metric type profile or a Publish type profile.

Metric Node

This node represents the **Metric** type profile for ADO Database Gateway probe. All custom Metric type profiles are displayed under this node. This node does not contain any fields or sections. The Metric type profile generates the following QoS messages:

- Query Response QoS
- Row Count QoS
- Value QoS

Navigation: adogtw > Connection-*connection name* > *connection name* > Metric

<Metric Profile Name> Node

This node lets you view and configure the **Metric** type profile properties. You can set the QoS and alarm values for monitoring the database transaction execution.

Note: This node is referred to as *metric profile name* node and is user-configurable.

Navigation: adogtw > Connection-*connection name* > *connection name* > Metric > *metric profile name*

Set or modify the following values as required:

metric profile name > General Setup

This section lets you configure the profile properties and set the timeout values.

- Active: activates the monitoring profile.
- Profile Name: identifies the profile name.
- Connection Name: identifies the provider name.
- Query Timeout: specifies the time limit for fetching the SQL query output.
- Run Interval: specifies the time interval between two successive SQL Query executions.

Default: 10 minutes

- Interval Unit: specifies the measurement unit of **Run Interval**.

metric profile name > SQL Query

This section lets you define the **Simple Query** for accessing database tables and reads data from them. The **Test** option under **Actions** lets you execute the defined query.

Note: The **Test** option lets you verify if the SQL query runs successfully without displaying any database items or number of rows returned.

***metric profile name* > Query Response QoS**

This section lets you configure the threshold properties for generating QoS messages and alarms for the SQL query response time.

- Severity: specifies the alarm severity.
Default: information
- Message: defines the alarm message text.
- Subsystem: specifies the alarm subsystem ID that defines the alarm source.
Default: 1.1.13-Database
- Threshold: specifies the alarm threshold operator.
- Threshold Value (ms): specifies the time interval for fetching SQL query output, exceeding which alarms are issued.

Note: Similarly, you can configure the **Row Count QoS** and **Value QoS**.

Publish Node

This node represents the **Publish** type profile for ADO Database Gateway probe. All custom **Publish** type profiles are displayed under this node. This node does not contain sections or fields.

Navigation: adogtw > Connection-*connection name* > *connection name* > Publish

<Publish Profile Name>

This node lets you view and configure the **Publish** profile properties. You can set the variable value and name of unmapped messages.

Note: This node is referred to as *publish profile name* node and is user-configurable.

Navigation: adogtw > Connection-*connection name* > *connection name* > Publish > *publish profile name*

Set or modify the following values as required:

***publish profile name* > General Setup**

This section lets you configure the profile properties and set the timeout values. Refer to the **General Setup** section of the *metric profile name* node for field description.

***publish profile name* > SQL Query Setup**

This section lets you define the **Simple Query** for accessing database tables and reads data from them. The **Test** option under **Actions** lets you execute the defined query.

***publish profile name* > Publish Message Subject**

This section lets you configure the **Subject** field. This field defines the message content.

***publish profile name* > Publish Message Setup**

This section lets you create a variable to map with the message.

- Variable Name: defines a unique name in the message.
- Variable Mapping: defines the variable value. If no mapping is given, then the column name is used as variable to map with the message.

Configure a Node

This procedure provides the information to configure a section within a node.

Each section within the node lets you configure properties of the probe for connecting to the database.

Follow these steps:

1. Navigate to the section within a node that you want to configure.
2. Update the field information and click **Save**.

The specified section of the probe is configured.

Add Connection

You can create an ADO connection of the ADO Database Gateway probe for monitoring a database.

Follow these steps:

1. Click the **Options** icon next to the **adogtw** node in the navigation pane.
2. Select **Add New Connection**.
3. Update the field information and click **Submit**.

The new ADO connection is available for database monitoring and is visible under the **adogtw** node in the navigation pane.

Manage Profiles

You can add a profile of the ADO connection in the ADO Database Gateway probe for database monitoring.

Follow these steps:

1. Click **Options** next to the *connection name* node in the navigation pane.
2. Select **Add New Profile**.
3. Update the field information and click **Submit**.

The new monitoring profile is visible under the **Metric** or **Publish** node in the navigation pane.

Delete Connection

You can delete an ADO connection to stop database monitoring.

Follow these steps:

1. Click the **Options** icon next to the *Connection-connection name* node that you want to delete.
2. Select **Delete Connection**.
3. Click **Save**.

The ADO connection is deleted.

Delete Profile

You can delete a **Metric** or **Publish** profile of the connection to stop database monitoring.

Follow these steps:

1. Click the **Options** icon next to the *profile name* node that you want to delete.
2. Select the **Delete Profile**.
3. Click **Save**.

The monitoring profile is deleted from the resource.

Chapter 3: adogtw QoS Metrics

The following table describes the checkpoint metrics that can be configured using the adogtw probe.

Monitor Name	Units	Description
QOS_SQL_RESPONSE	Milliseconds	SQL query response time
QOS_SQL_ROWS	Rows	SQL query rows
QOS_SQL_VALUE	Value	SQL query value

Chapter 4: Known Issues

This section contains a list of known issues in this release.

- The **Subscribe** type profiles cannot be configured in this version.