



# DataLogger for KEPServerEX<sup>®</sup> V6

## Easy Guide



An introductory guide to  
configure DataLogger  
for data collection and  
analysis.

Last updated February, 2019

## Introduction

DataLogger for KEPServerEX® can pull data gathered by KEPServerEX and log it to an ODBC-compliant database; including MSSQL, MySQL, PostGRE, Oracle, and Microsoft® Access.

Applications for DataLogger may include logging a small set of data to a single table or high volumes of data logging to multiple databases. Log data at a range of speeds, from milliseconds to minutes to hours.

DataLogger is useful for a variety of scenarios, including:

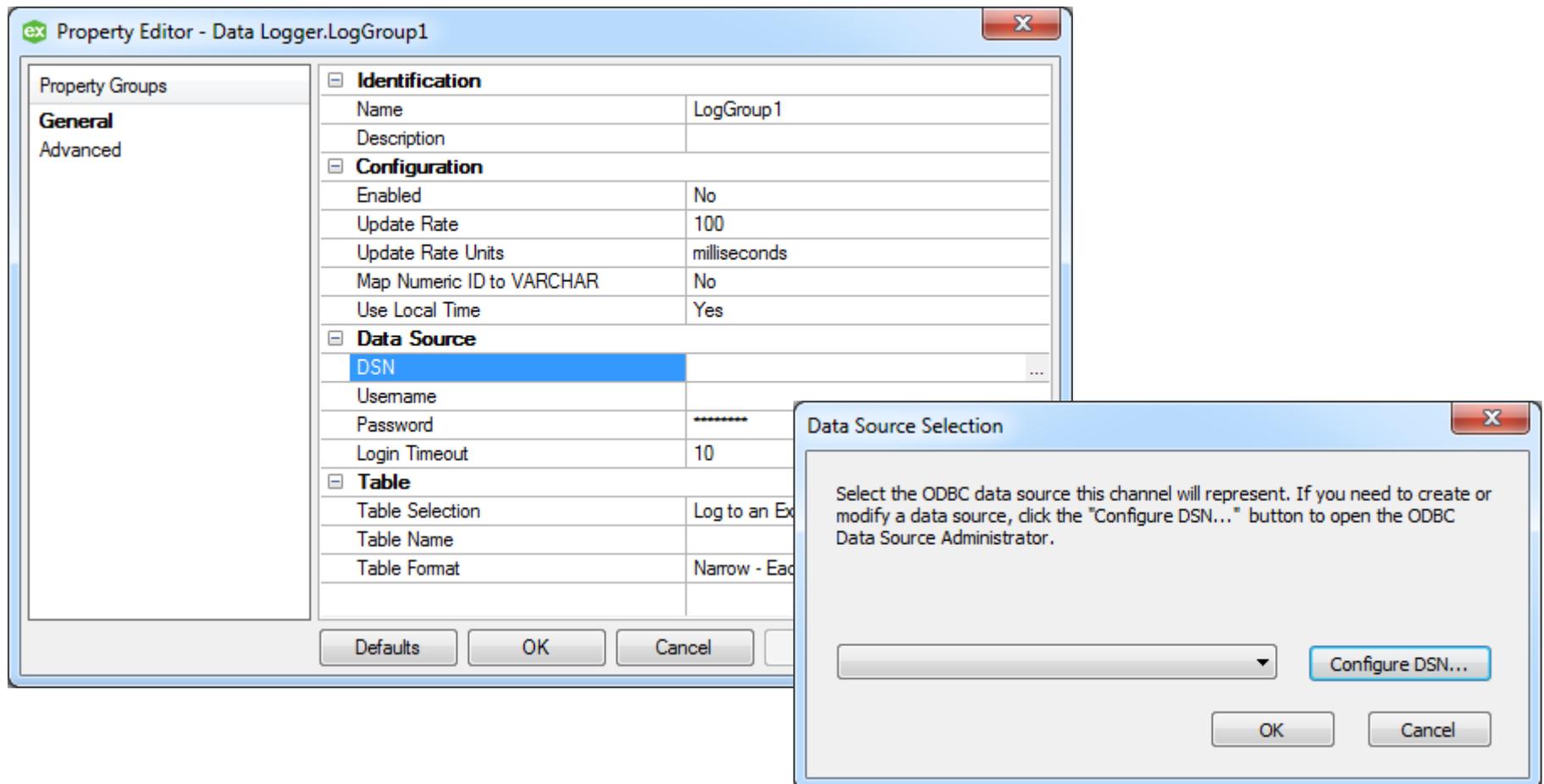
- Overall Equipment Effectiveness (OEE) calculations that use aggregated data from availability, performance, and quality information
- Batch process data that can be mapped into a table and queried based on batch attributes

Follow these steps to configure DataLogger for your logging and analysis needs.

# Configuring DataLogger

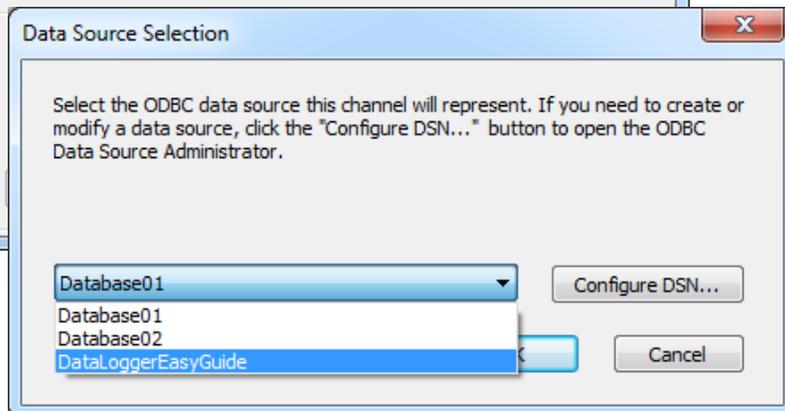
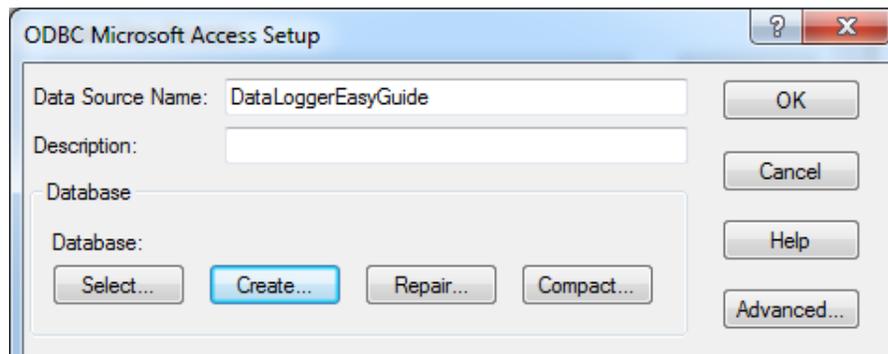
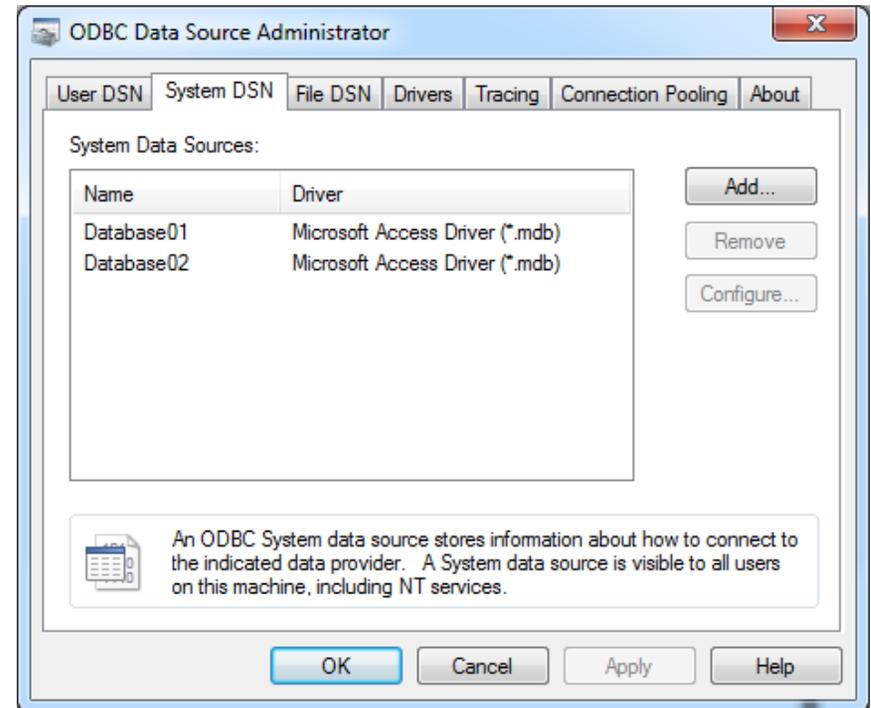
## 1 Set up a database connection.

- In KEPServerEX, select **DataLogger** and add a new log group.
- In the General property group, click **Browse** (...) in the DSN field, then select **Configure DSN...** to launch the Data Source Administrator.



- **Note:** Creating a System DSN connection yields the best logging results and works with the KEPServerEX default settings.

- Access the **System DSN** tab and click **Add...**
- Select the type of driver to connect to the database. For testing purposes, try logging data using the Microsoft Access Driver (with extension \*.mdb).
- Click **Finish** to configure the database connection.



- In **ODBC Microsoft Access Setup**, enter a name in Data Source Name and click **Create** to specify the location for the database files.
- Browse for a directory in which to save the database. Once finished, click **OK**.
- Select the new database from the DSN drop-down menu under Data Source Selection and click **OK**.

## 2 Select the data logging table and table format.

The Table property group is found under **Log Group | General**.

- For Table Selection, select **Create a new table once and always append to this table**.
- Enter a name for the table in the Table Name field. This example uses "Table1".
- For Table Format, select **Narrow - Each item shares a column mapping**.

The screenshot shows a dialog box titled "Property Editor - Data Logger.LogGroup1". On the left, a tree view shows "Property Groups" with "General" selected. The main area is a table with the following sections:

Identification	
Name	LogGroup1
Description	

Configuration	
Enabled	No
Update Rate	100
Update Rate Units	milliseconds
Map Numeric ID to VARCHAR	No
Use Local Time	Yes

Data Source	
DSN	Database01
Username	
Password	*****
Login Timeout	10

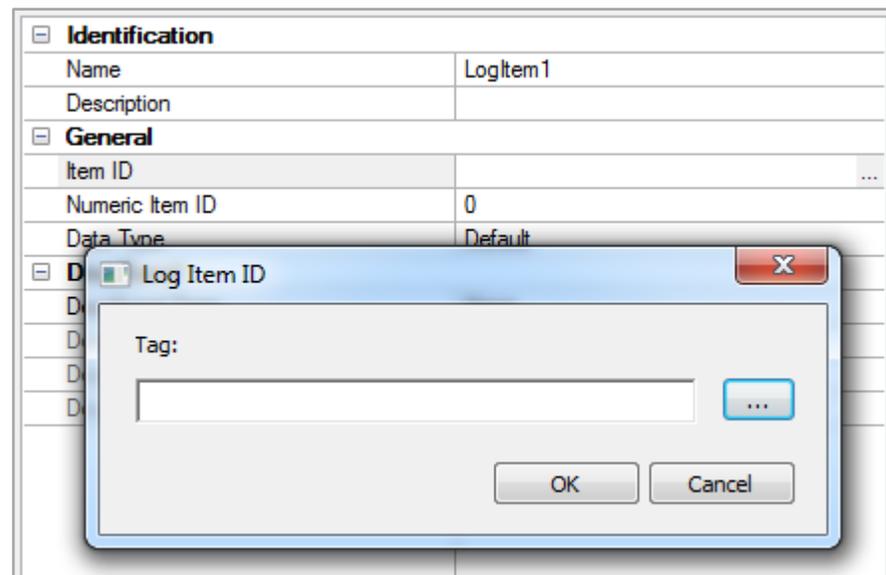
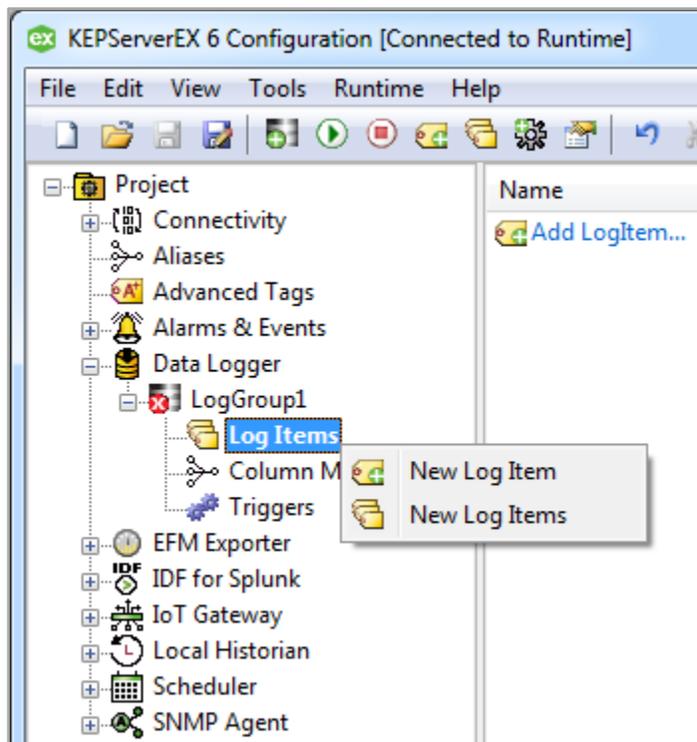
Table	
Table Selection	<b>Create a new table once and always append to this table</b>
Table Name	<b>Table1</b>
Table Format	<b>Narrow - Each item shares a column mapping</b>

At the bottom of the dialog are buttons for "Defaults", "OK", "Cancel", "Apply", and "Help".

### 3 Select data to log from the server.

- Right-click **Log Items** and select **New Log Item** or select **Add LogItem...**
- Click **Browse (...)** from the **Item ID** field, and select data to log. For testing purposes, choose a System Tag like "Time\_Second."

• For more information on the Table Selection and Table Format choices, see the DataLogger product manual.



#### 4 Return to the KEPServerEX configuration window.

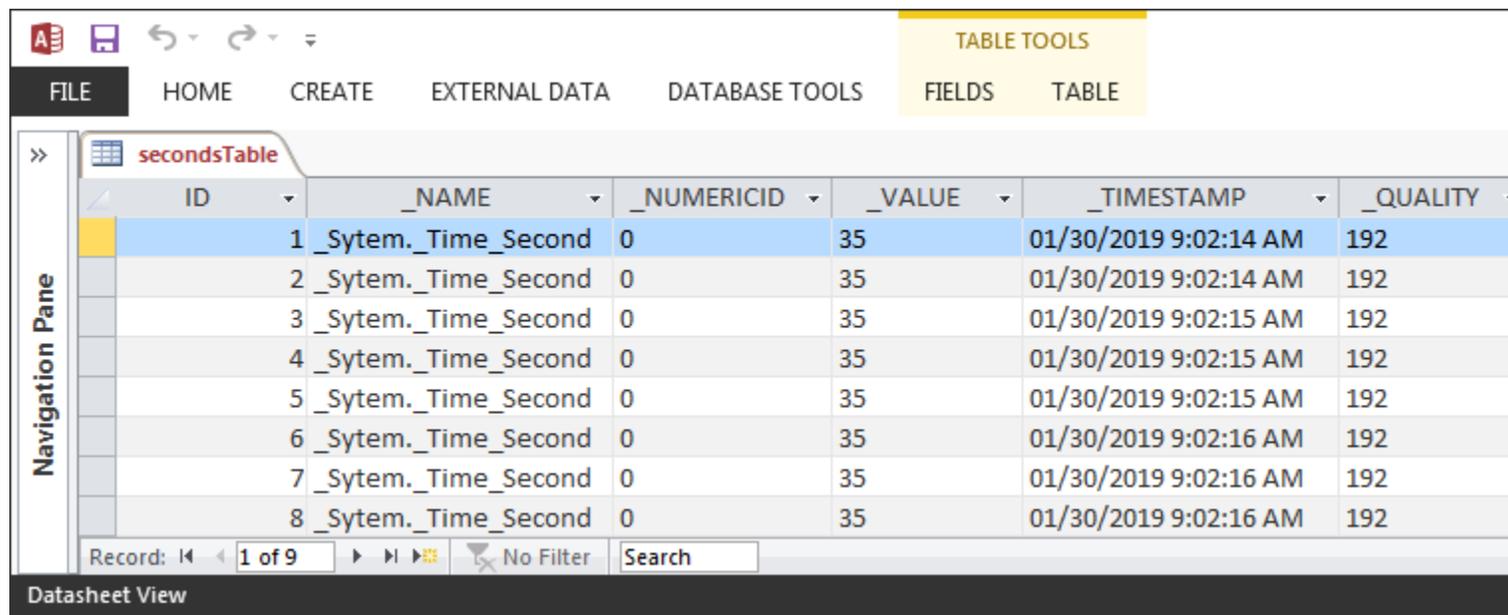
- To start logging, click the icon located in the KEPServerEX toolbar. 
- To stop logging, click the toolbar icon. 

You can also configure multiple log groups to log data at different rates or to different databases.

#### 5 Trigger the data to log.

DataLogger's default settings for new log groups include a preconfigured 500-millisecond trigger.

- Open the new database file (saved to the location specified in Step 1) in MS Access to verify that the data was recorded.
- If the data is in the table, congratulations! You have successfully logged time-series data from KEPServerEX to a database!



ID	_NAME	_NUMERICID	_VALUE	_TIMESTAMP	_QUALITY
1	_Sytem._Time_Second	0	35	01/30/2019 9:02:14 AM	192
2	_Sytem._Time_Second	0	35	01/30/2019 9:02:14 AM	192
3	_Sytem._Time_Second	0	35	01/30/2019 9:02:15 AM	192
4	_Sytem._Time_Second	0	35	01/30/2019 9:02:15 AM	192
5	_Sytem._Time_Second	0	35	01/30/2019 9:02:15 AM	192
6	_Sytem._Time_Second	0	35	01/30/2019 9:02:16 AM	192
7	_Sytem._Time_Second	0	35	01/30/2019 9:02:16 AM	192
8	_Sytem._Time_Second	0	35	01/30/2019 9:02:16 AM	192

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