AUTOSOL

DbClient

Dynamic Data Transfer

DbClient offers the ability to receive data updates from OPC servers and store the real-time value, quality and time stamp in a database without the need for a separate bulky HMI. This OPC client application is driven by an open-standards database and will interact with OPC servers once an entry in a specific database table is made.

DbClient is a customizable communication application that allows users to add OPC items and store their real-time updates within a database, which they can then query, adjust or act upon. Setpoint writes are also capable, once enabled, to further automate your processes. Virtually any database can be used that has an ADO or OLEDB database provider, including MySQL and Microsoft SQL Server.

Key Features

Store OPC Item Data

Store the most recent value, quality and time stamp for each flagged OPC item whenever a new value is received from the item's OPC server.

Clear and Open Configuration Tables

The open and flexible nature of the tables means they can be modified and dynamically interacted with via your SQL programming functions.

Change of State of OPC Items

Update the current state of OPC items to be active, inactive or disabled as needed.

Servers Listing

Maintains a list of OPC servers that will be used as data sources when reading values or data destinations when writing item values.

Writes Listing

Maintains a list of the progress, results and time stamp of each OPC write transaction.

Groups Listing

Maintains a list of OPC groups that are available for OPC items to use.

Write Values to OPC Items

Write values to OPC items on the selected OPC server through DbClient's processing queue and capture the results of each transaction.

Processing Timers

Fine-tune the frequency of data updates received from the OPC server by specifying the milliseconds for both the DbClient scan and the OPC processing time intervals.

DbClient Task Queue

Limit CPU usage when handling large numbers of OPC items by setting the max number of changes allowed to process with each timer interval.

Error and Message Logging

DbClient has a logging utility to capture:

- Error Messages
- OPC Connection and State Changes
- OPC Data Updates
- OPC Writes
- Verbose Messages for Troubleshooting

Product Features

High Availability

With OPC values being written to virtually any database, users can leverage their existing SQL infrastructure and its replication methods to keep the data accessible.

Flexibility

When paired with AUTOSOL ACM, your SQL server now has the means of receiving data from every common SCADA RTU, enhanced with ACM's capability of varying polling frequencies and tag lists as necessary.

Cost Savings

DbClient is licensed by install and not data points. Functionality is limited by database size only. DbClient can help keep HMI points down by eliminating the need to add points that only need to be on reports.

Ease of Use

Built-in database commands that work for the most common database types and can easily be modified for others.
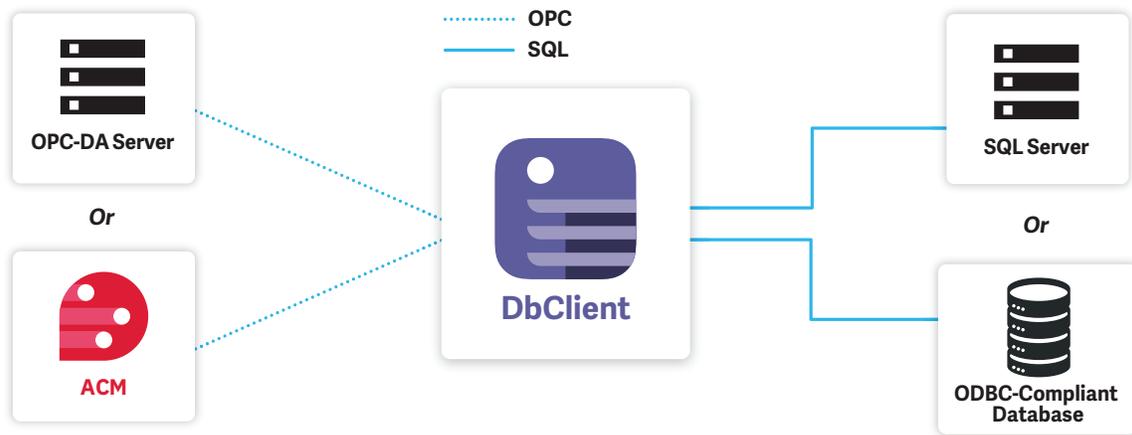
System Requirements

DbClient supports the following operating systems in both 32 and 64-bit:
• **Microsoft Windows:** 7, 8, 8.1, and 10
• **Microsoft Windows Server:** 2008, 2008R2, 2012, 2012R2, 2016 and 2019

DbClient requires a database with an ADO or OLEDB database provider to store data.

DbClient requires an OPC-DA server as a data source.

Specifications are subject to change without notice.

Custom Software Development

AUTOSOL's software engineers and developers are continually enhancing the flexibility and scalability of our products. In addition to our internal product development efforts, AUTOSOL offers custom software development services to provide support for our client's needs.

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