



# DbClient

## DYNAMIC DATA TRANSFER

DbClient offers many features, including an events queue that handles OPC events and features easy configuration for end users. 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. It interacts by adding, activating or removing OPC items.

## Features

- High Availability – With OPC values being written to virtually any database, users can effortlessly query the values out into any custom report or format for display.
- Flexibility – DbClient is used for receiving OPC reads from OPC servers and is capable of writing values to OPC items.
- Cost Savings – DbClient is licensed by install and not 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.
- Easy to Use – Built in database commands that work for the most common database types and can easily be modified for others.

## PRODUCT OVERVIEW

DbClient is a customizable communication application that allows users to add, activate or remove OPC items. With DbClient, virtually any database can be used that has an ADO or OLEDB database provider (virtually all major database systems).

Designed for full OPC customization, DbClient provides functionality and streamlines the most sensitive data.

## Product Features

### STORE OPC ITEM DATA

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

### ADD/REMOVE OPC ITEMS

Dynamically add OPC items with a specified OPC server, group, address and item state. Flag OPC items for dynamic removal from the monitored list

### CHANGE STATE OF OPC ITEMS

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

### 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 timestamp 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 commands and updates sent to the OPC server by specifying the milliseconds for both the DbClient scan and the OPC processing timer intervals

### OPC EVENTS QUEUE

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

### ERROR AND MESSAGE LOGGING

DbClient utilizes the ASLogger message logging utility to capture:

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

## Specifications

### SUPPORTED DATABASES

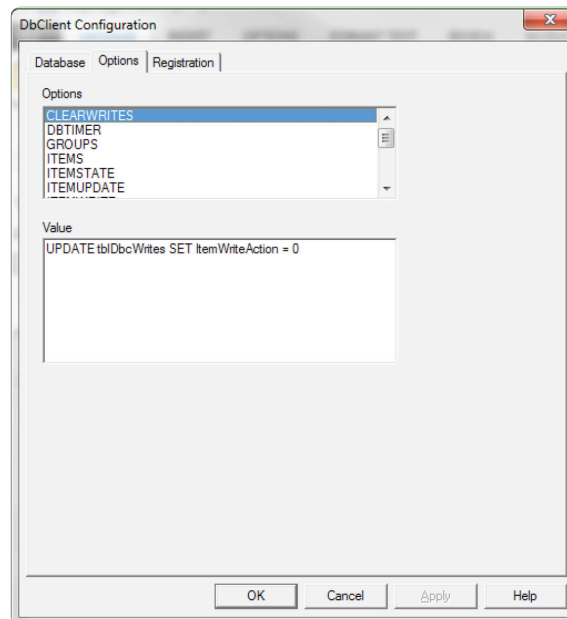
- Database with an ADO Provider
- Database with an OLEDB Provider

### REQUIRED CONFIGURATION FILES

- DbClient Initialization File
- Valid DbClient License

### DATABASE CONFIGURATION SETTINGS

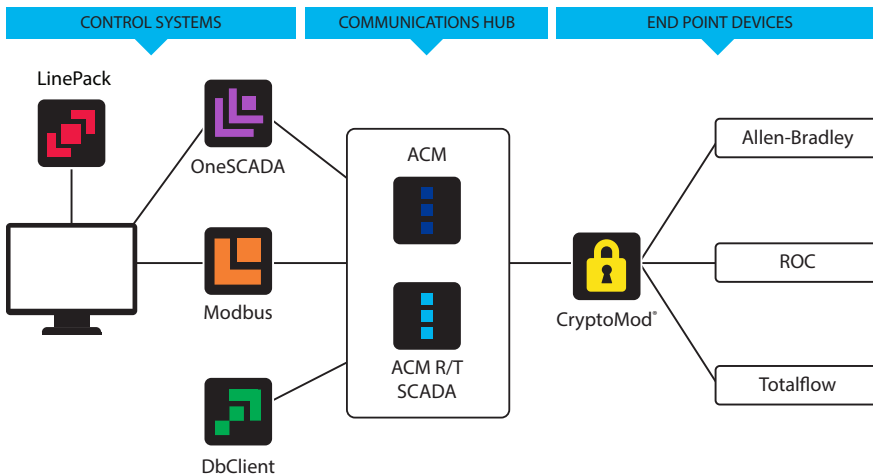
- Connection String
- Cursor Location
- OPC Servers List
- OPC Groups List
- OPC Items List
- Item State Query
- Item Update Query/Procedure
- Item Write Query
- Item Write Status Query/Procedure
- Clear Writes Query
- Startup Writes Entry










## System Requirements

DbClient requires at minimum: Windows 2000 SP4 or later, Microsoft Data Access Components (MDAC) 2.8 and a database with an ADO or OLEDB provider.

## PRODUCT SUITE IN SYNC



## AUTOMATION SOLUTIONS

-  **ACM**  
High Performance, Flexible Communication
-  **ACM R/T SCADA**  
Tailored Software for Real-Time Data
-  **CryptoMod®**  
The Key to Automation Security
-  **DbClient**  
Dynamic Data Transfer
-  **LinePack**  
Validated Calculations
-  **Modbus Slave**  
Valuable Communication Through Modbus
-  **OneSCADA**  
Robust Organization, Efficient Control

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