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## Overview

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The Khronos OPCdB Server translates SQL data into OPC DA tags which can be accessed by control systems, HMI/SCADA systems, Management Information Systems (MIS) and Manufacturing Execution Systems (MES).

Loading of the database is protected by server-side definitions of poll rates, preventing high-frequency polling from OPC clients from impacting the database server.

OPC clients can browse for published tags, and subscribe to them in the same way they do for PLC and control system OPC tags.

The Khronos OPCdB Server supports connectivity to multiple MS SQL Servers and databases, and relies on the user to specify TSQL statements which return scalar values for publication through the OPC service. Statements can comprise:

- SELECT statements
- SELECT and JOIN statements
- WHERE, ORDER and GROUP statements
- EXEC of stored procedures
- Multi-step TSQL procedural statements

The Khronos OPCdB Server supports connectivity to MS SQL Server 2008 and later. It supports queries which access data from other sources via Linked Servers. It automatically assigns the data type of each tag based on the type of the field returned by the SQL statement.

It is designed to provide read-only access to database(s), and does not support OPC DA write-backs.

The Khronos OPCdB Server runs as a Windows Service and supports both SQL and Windows security integration.

### Features at a glance:

- Connectivity to multiple MS SQL Servers
- Windows security integration
- Server-side query rates
- OPC DA Tag Browsing
- OPC DA Data Publication

### Use Cases:

The utility is primarily designed for the integration of database information to live data collection systems such as FactoryTalk Transaction Manager, FactoryTalk Metrics and FactoryTalk Historian. Use cases include:

- Querying a rail inload schedule to determine whether a train is late arriving, and raising a downtime event trigger to the FactoryTalk Metrics Server
- Querying a trucking schedule and sending the target haulage tonnes to a SCADA display tag.
- Querying a shift schedule and sending the current Crew identifier to the Historian.
- Querying a production schedule to determine whether a production line is supposed to be production at this point in time, and raising a scheduling trigger to the FactoryTalk Metrics Server.
- Querying an OEM machine's SQL Express database to determine which product is being produced at this point in time, and passing that product string to the FactoryTalk Live Data Server for use by a variety of different clients.

### How to buy:

Contact us at [www.startgroup.com.au](http://www.startgroup.com.au) for details.