DataHub® DA Tunneller™

Robust OPC networking with no DCOM

Now you can network the connection between your OPC DA servers and clients without the hassles of configuring DCOM. Instead, connect one DataHub to your OPC server, and another DataHub to your OPC client, and configure tunnelling connection between them. Your data tunnels securely through firewalls, reverse proxies and across the network over TCP, using SSL if needed.
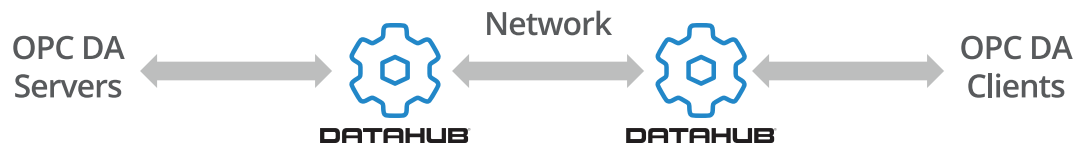
Never blocks OPC or drops the OPC connection

If the network goes down for any reason, the DataHub DA Tunneller at each end of the tunnel maintains the connection to the server and client. All tags maintain their most recent values until the network is restored, when the data is then automatically synchronized again between the server and client.

Quick reconnects after network failures

Other tunnelling software requires network timeout parameters to be carefully tuned to minimize lengthy delays and false reports of network failure. The DataHub uses a more sophisticated model to detect network failures which avoids false timeouts and blocking, and allows for quick reconnects.

Benefits and Features

- No DCOM configuration hassles
- Easy to configure, just point and click
- Thousands of data updates per second
- Supports reverse proxies
- Industrie 4.0 ready

- Enhanced security options using SSL
- Maximize throughput for multiple tunnels
- Optimize low-bandwidth connections
- Securely Network to any cloud service with the IoT Gateway™ or SkkyHub™

Skkynet DataHub

Other tunnelling products

The DataHub keeps all OPC transactions local to the computer, thus fully protecting the client programs from any network irregularities.

Other products expose OPC transactions to network irregularities, making client programs subject to timeouts, delays, and blocking behaviour.

OPC DA Servers ⟷ DATAHUB ⟷ Network ⟷ DATAHUB ⟷ OPC DA Clients

OPC DA Servers ⟷ ✖ ⟷ OPC via TCP ⟷ ✖ ⟷ OPC DA Clients

The DataHub mirrors data across the network, so that both sides maintain a complete set of all the data. This shields the clients from network breaks as it lets them continue to work with the last known values from the server. When the connection is re-established, both sides synchronize the data set.

Other products pass data across the network on a point by point basis and maintain no knowledge of the current state of the points in the system. A network break leaves the client applications stuck with no data to work with.

A single tunnel can be shared by multiple client applications. This significantly reduces network bandwidth and means the customer can reduce licensing costs as all clients (or servers) on the same computer share a single tunnel connection.

Other tunnelling products require a separate network connection for each client-server connection. This increases the load on the system, the load on the network and increases licensing costs.

System Information

DataHub supports OPC UA, Classic (DA 3, DA 2, and A&E), as well as Modbus TCP, MQTT, ODBC, DDE, TCP, HTML, and XML. It runs on the following operating systems:

- Windows Server 2016 (64-bit)
- Windows Server 2012 & R2 (64-bit)
- Windows Server 2008 & R2 (64-bit)
- Windows Server 2003 & SP2 (32 & 64-bit)*

- Windows 10 (32 & 64-bit)*
- Windows 8.1 (32 & 64-bit)*
- Windows 7 (32 & 64-bit)*
- Windows XP SP2 (32 & 64-bit)*

* 32-bit operating systems only supported by DataHub versions 7 and 8

Ordering Information

Product	Code	Description
DataHub DA Tunneller	DHTUN	DataHub Core features with OPC DA and Tunnelling

SKKYNET