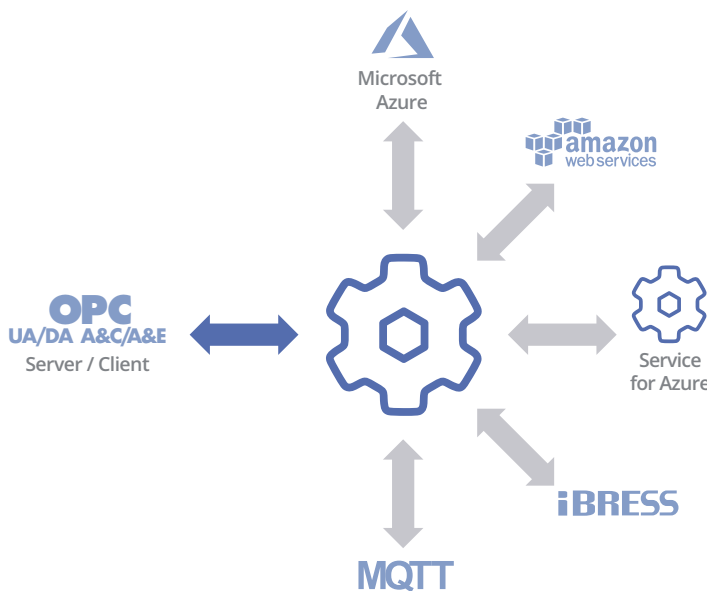# Cogent **DataHub**™ IoT Gateway

Connect to Azure, Google, Amazon, or any MQTT broker

Connect to virtually any MQTT IoT service

DataHub™ software makes it easy to connect your OPC-enabled system to virtually any MES, device cloud, or big data analytics platform using MQTT, Sparkplug B, or REST. It comes pre-configured for Azure IoT Hub, Google IoT, Amazon Kinesis, and Amazon IoT Core. With optional External Historian, you gain the reliability of store-and-forward and local historical data visibility with a single configuration.

Get the most from your industrial data

Send plant data securely to the cloud: MQTT's publish/subscribe protocol makes a secure, outbound connection to the IoT cloud service. No need to open any firewall ports, and no need for a VPN. DataHub™ IoT Gateway software also supports Transport Layer Security (TLS), certificate-based authentication, and username/password authentication.

Integrate real-time OPC data

Leverage OPC UA, the leading Industrie 4.0 and IIoT data protocol—using a secure, real-time connection that maintains the OPC UA data model (which other gateways flatten). You get both OPC UA and DA client and server interfaces, for built-in protocol conversions. The full data hierarchy from the OPC UA server gets faithfully represented in the OPC DA client and MQTT broker.

Optimize MQTT

DataHub™ IoT Gateway software supports MQTT Sparkplug B, MQTT Version 3.1.1, including publish and subscription methods, as well as Last Will and Testament and Quality of Service message delivery.

DataHub™ IoT Gateway software also offers these additional benefits:

- No point count restrictions
- Automatically discovers all the points from the server
- Eliminates cache latency and stale data, so you always know the data quality and have the most current value
- Multi-threaded interface means that a slow or non-responsive server will not slow down other connections
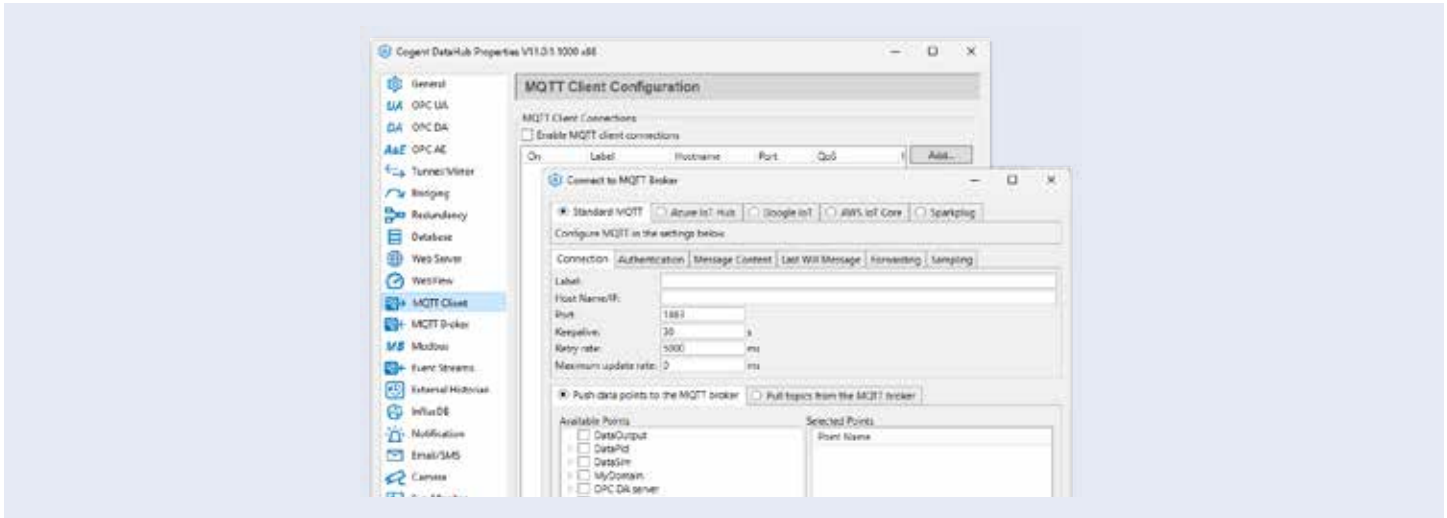
Standard Features

- **MQTT Client** – connect to any MQTT Broker
- **OPC DA support** – connect to OPC DA servers/clients
- **OPC UA support** – connect to OPC UA servers/clients
- **Data aggregation** – merge data from multiple sources into a common data set
- **Secure Remote Configuration** – configure multiple DataHub™ installations from one location
- **QuickTrend** – view live, real-time trends for selected data
- **Scripting** – program custom solutions to meet your specific needs
- **Security** – control access and set permissions for users and groups

Popular Add-on Features

- **MQTT Broker** – in-house IoT Hub
- **WebView™** – build and display web-deployed HMI
- **Data Bridging** – connect two or more data sources to share data in real time
- **OPC A&E** – connect to OPC A&E servers/clients
- **OPC A&C** – connect to OPC UA A&C servers/clients
- **Modbus** – connect to Modbus TCP slave devices
- **Database** – read and write data to/from any ODBC database
- **InfluxDB** – enables store-and-forward capabilities

System information

DataHub™ software supports OPC UA (server and client), OPC UA A&C (server and client), OPC UA HDA (server), OPC Classic (DA 3, DA 2, and A&E), as well as Modbus TCP, MQTT, MQTT Sparkplug B, ODBC, DDE, TCP, HTTP and more. It runs on the following operating systems:

- Windows Server 2022 / 2019 / 2016
- Windows Server 2012 & R2
- Windows Server 2008 & R2
- Windows Server 2003 & R2 (DataHub v8 only)
- Windows 11 / 10 / 8.1 / 7
- Windows XP SP2 (DataHub v8 only)

About Skkynet

Skkynet is a global leader in real-time software and services that allow companies to securely acquire, monitor, control, visualize, network and consolidate live process data in-plant or in the cloud. DataHub™, DataHub™ for Azure, and Embedded Toolkit (ETK) software enable secure, real-time data connectivity for industrial automation, Industrial IoT, and Industrie 4.0. Visit **skkynet.com** for more about the company and **cogentdatahub.com** for more about Cogent DataHub.

Ordering Information

PRODUCT	CODE	DESCRIPTION
DataHub IoT Gateway	IOTGAT	DataHub Core features with OPC UA, OPC DA, MQTT client, tunnel/mirror