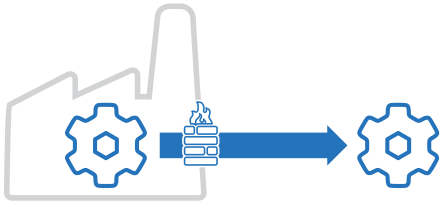
Cogent **DataHub**™ Tunnellers (tunnel/mirror)

Better networking for OPC DA, OPC UA, A&E, Modbus, and DDE

Network OPC DA without DCOM, access OPC UA data without opening inbound firewall ports, connect OPC A&E through proxies and DMZs, and more. DataHub tunnel/ mirror software delivers robust, secure network connections. Tunnelling protects the connection, while mirroring keeps the data consistent.

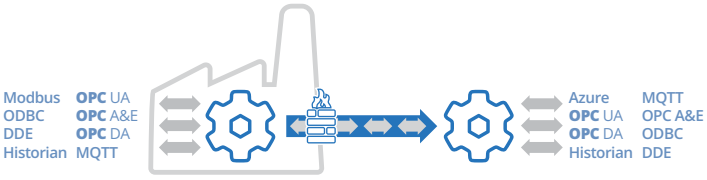
Outbound connections

Unlike most industrial data protocols, a DataHub tunnel/ mirror can make outbound-only connections from the plant to the cloud, IT department, or a DMZ. It opens no inbound firewall ports, adds zero attack surfaces, and uses no VPNs. SSL is fully supported for all networked protocols.



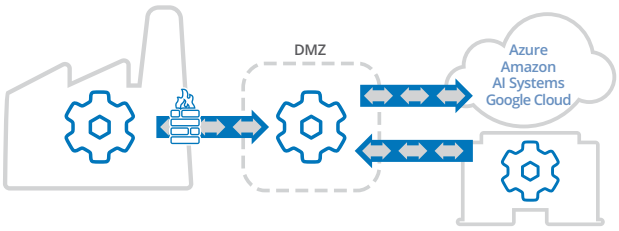
Flexible data flow

DataHub tunnel/mirroring can be configured for one-way or bidirectional data flow. It supports OPC UA, OPC DA, A&E, MQTT, Modbus, ODBC, and external historian connections—converting between them if necessary in real-time within the DataHub unified namespace.



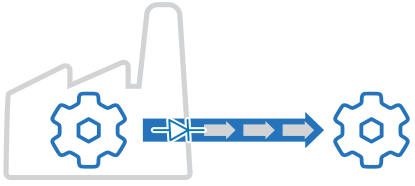
Traversing a DMZ

The NIS2 Directive, NIST CSF 2.0, ISO 27001 and leading security experts all agree that network segmentation using a DMZ is critical for securing access to operations data. Unlike OPC UA or MQTT, DataHub tunnel/mirroring can pass data securely along the multiple daisy-chained connections that are necessary for DMZ support.



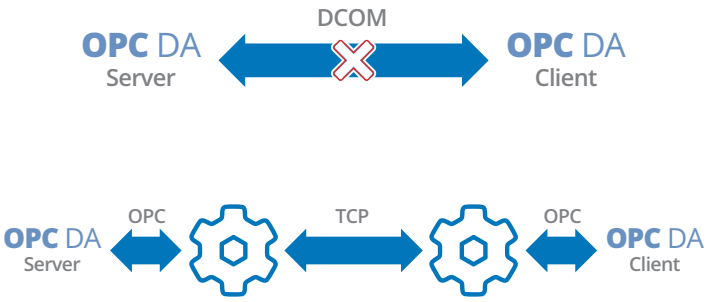
Data diode mode

Data diode mode provides an extra layer of security, ensuring that absolutely no data passes into the OT system. This function can be used to support data diode hardware, or as a software-only option.



Secure OPC DA Networking

Connecting OPC Classic across networks requires DCOM, which is hard to configure and insecure. A recent Microsoft security patch only allows the two highest DCOM authorization levels, causing lower-security OPC client connections to fail. DataHub tunneling/mirroring makes only local OPC connections and transfers data over TCP (with optional SSL), eliminating DCOM issues.



DataHub UA Tunneller

While OPC UA networks well, it still requires an open inbound firewall port for client connections. DataHub tunneling closes this gap by allowing all inbound ports on the server side to remain closed.

DataHub A&E Tunneller

Upgrade any DataHub Tunneller to OPC A&E, securely connecting through proxies/DMZs, unifying A&E data, and converting A&E to DA or UA.

DataHub Modbus Tunneller

DataHub Modbus Tunneller connects multiple Modbus TCP or RTU devices and shares data across networks with OPC or other clients without DCOM or security hassles.

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.

Product Code Description

PRODUCT	CODE	DESCRIPTION
DataHub DA Tunneller	DHTUN	DataHub Core features with OPC DA and Tunnelling
DataHub UA Tunneller	DHTUNUA	DataHub Core features with OPC UA and Tunnelling
DataHub Modbus Tunneller	DHMTUN	DataHub Core features with Modbus and Tunnelling
DataHub DDE Tunneller	DHDTUN	DataHub Core features with DDE and Tunnelling
OPC A&E + A&C support	ADDAEC	OPC A&E + A&C Support