Cross-Platform OPC UA Functionality

Inductive Automation, the first company to independently develop an OPC UA stack from scratch and successfully test it at a major interoperability workshop, offers the Ignition OPC UA Module, which adds OPC UA server and client functionality to an Ignition system. Connect Ignition to most major PLCs with this powerful, versatile module.

Features

Server & Client

The Ignition OPC UA Module provides both server and client functionality. As an OPC UA server, the module integrates with our suite of popular drivers for Allen-Bradley, Siemens, Modbus, and Omron devices. As an OPC UA client, the module has the ability to make outgoing connections to third-party OPC UA servers. The OPC UA Module also features an open driver API, which allows you to write your own drivers for the module. Learn more at: inductiveautomation.com/developers/

Based on Modern IT Protocols

The OPC UA specification is based on TCP, which means no more configuring DCOM. Your connections are made by IP address, so connecting to a remote machine is as easy as connecting to a local one.

Works on Any Major Desktop Operating System

One of the greatest things about OPC UA is that since it’s based on open technologies like TCP, it can be implemented on multiple platforms. And that’s just what we did. The Ignition OPC UA Module works just as well on Mac or Linux as it does on Windows, and can run on just about any system that supports Java.

Security

Because the module is based on TCP, the same security methods are available that allow you to set up RSA encryption in just a few moments.

Performance

The Ignition OPC UA Module was built for speed by using the high-performance binary-TCP encoding and transport model in OPC UA. The multi-threaded device model was written to ensure fast updates and to enable massive concurrent tag counts.
Drivers

Modbus Ethernet
The Modbus TCP Ethernet Driver for the Ignition OPC UA Module provides a way to connect to any device that supports the Modbus TCP protocol for use in Ignition; for example, in the SQL Bridge and Vision modules.

The driver has a built-in address mapping feature which allows you to enter blocks of common addresses, and then the driver will create the individual addresses and display them in the OPC browser.

UDP and TCP Drivers Module
An elegant, data collecting mechanism for barcode scanners, weigh scales, analytical equipment, and other similar devices.

Siemens Driver
The Siemens Ethernet Driver for the Ignition OPC UA Module provides a way to connect to S7-300, S7-400, S7-1200, and S7-1500 Ethernet controllers for use in Ignition; for example, in the SQL Bridge and Vision modules.

DNP3 Realtime Driver
A TCP/IP DNP3 master implementation that can connect to any DNP3 slave device. Supports DNP3 Level 1, 2, and 3 implementations. Note: Does not support DNP3 Secure Authentication and does not read buffer data.

Omron Driver
Connect to Omron NJ-series controllers.

Allen-Bradley Driver Suite
The Allen-Bradley Ethernet Driver for the Ignition OPC UA Module provides a way to connect to most Allen-Bradley Ethernet controllers for use in Ignition; for example, in the SQL Bridge and Vision modules.

EFM Emerson ROC
Connect to the following device families: Emerson ROC 107 & 800 Series flow computers. EFM supports real-time, alarm, historical, and event data.

Module Specs and Requirements

**Requirements**
- Ignition
- Dual-core processor
- 4 GB RAM
- 10 GB free HD space
- (Requirements vary by usage)

**Supported Operating Systems**
- Windows Server 2008/2012/2016/2019
- Windows 7, 8, and 10
- macOS
- Ubuntu Linux (Supported by most popular distributions, tested with Ubuntu 14.04 or later)

**Supported Databases**
- Microsoft® SQL Server
- Oracle
- IBM DB2
- MySQL
- MariaDB
- PostgreSQL
- Firebird
- Any database with a JDBC driver