IEC 61850 MMS

Niagara Framework Driver

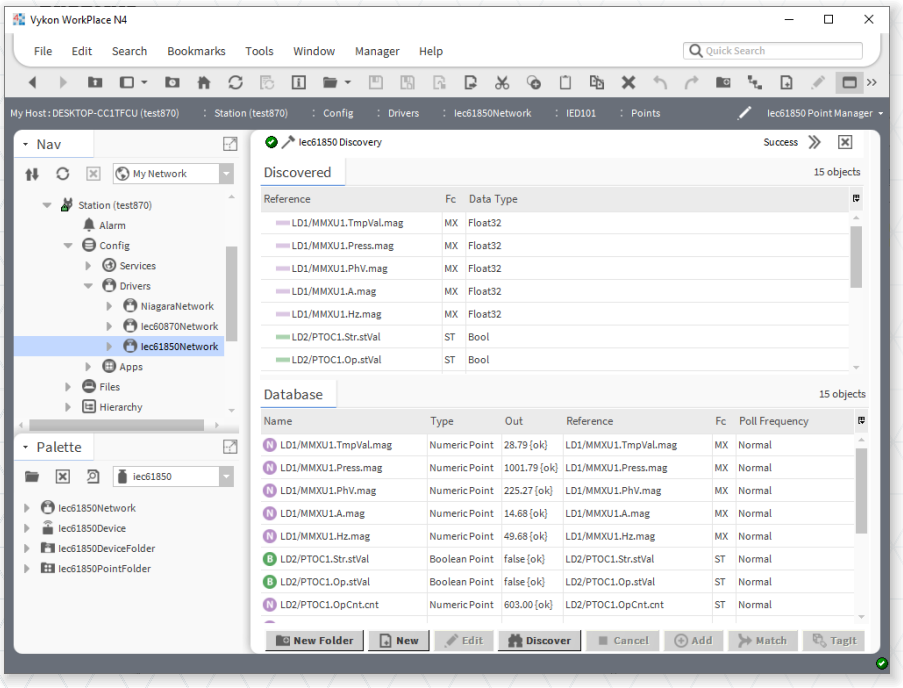
The IEC 61850 MMS driver connects substation automation equipment to Tridium Niagara, enabling monitoring of smart grid infrastructure alongside building automation from a unified interface.

The driver acts as an MMS client, communicating with IEC 61850 compliant IEDs from ABB, Siemens, Schneider Electric, GE, Hitachi Energy, SEL, and other major vendors over standard TCP/IP.

The IED data model is discovered automatically, providing hierarchical access to Logical Devices, Logical Nodes, and Data Objects with their semantic names preserved. The driver supports boolean, numeric, string, and timestamp data types with configurable polling rates.

The driver operates in read-only mode for safe monitoring of critical electrical infrastructure, making it suitable for utility substations and industrial power distribution.

- ✓ IEC 61850 MMS client for substation automation
- ✓ TCP/IP communication
- ✓ Automatic model discovery (Logical Devices, Nodes, Data Objects)
- ✓ Boolean, numeric, string, and timestamp data types
- ✓ Configurable polling rates per point
- ✓ Hierarchical semantic naming from IED models
- ✓ Read-only for safe monitoring of critical infrastructure
- ✓ Works with all major substation IED vendors
- ✓ No annual fees
- ✓ Free technical support and upgrades



IEC 61850 MMS Point Management in Niagara Workbench

SUPPORTED DEVICES

ABB	NR Electric	Toshiba
Siemens	Hitachi Energy	Mitsubishi Electric
Schneider Electric	ZIV	Thytronic
GE Grid Solutions	Eaton	Arteche
SEL	Basler Electric	LS Electric

SYSTEM REQUIREMENTS

- ✓ Niagara framework 4.8 or later, including OEM versions
- ✓ JACE or Supervisor with TCP/IP network access to IEC 61850 IEDs
- ✓ IEC 61850 MMS driver license

CONNECTIVITY

TCP/IP

Connect Niagara to IEC 61850 MMS-compliant Intelligent Electronic Devices (IEDs) over standard TCP/IP. The driver automatically discovers the IED data model and provides hierarchical access to all published data objects.

ORDERING INFORMATION

Part Number	Description
IEC61850-J-10	IEC 61850 for JACE, 10 devices
IEC61850-J-20	IEC 61850 for JACE, 20 devices
IEC61850-J-UNL	IEC 61850 for JACE, unlimited devices
IEC61850-SUP	IEC 61850 for Supervisor, first 10 devices
IEC61850-SUP-10	IEC 61850 for Supervisor, extra 10 devices