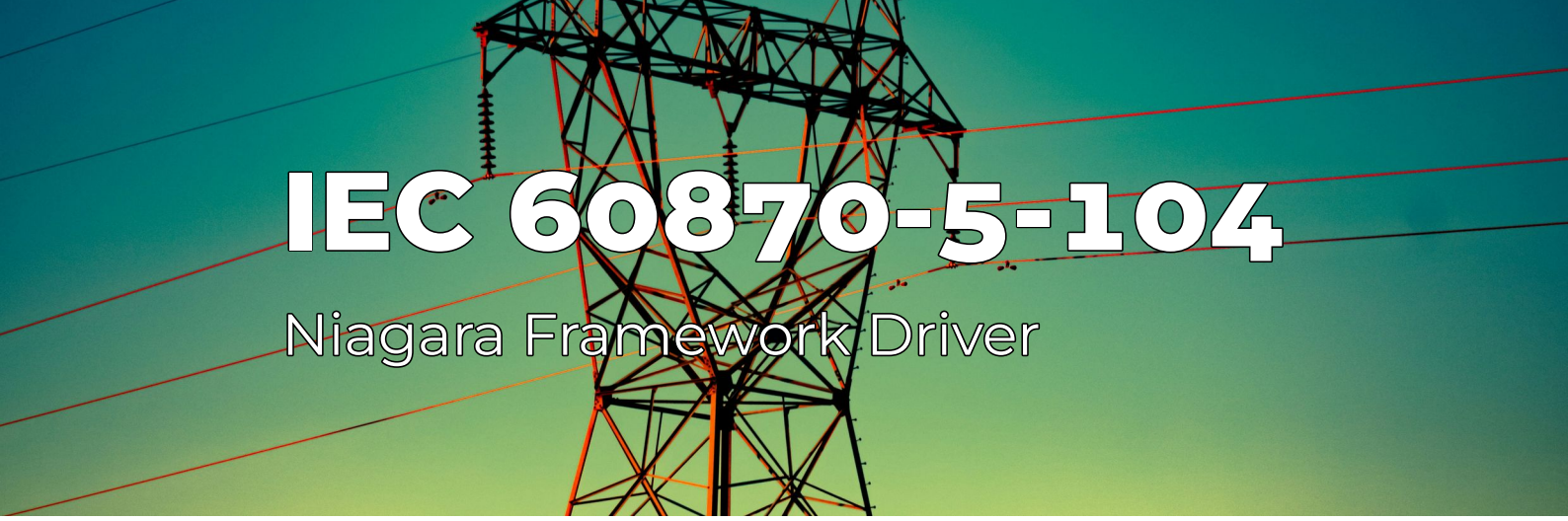


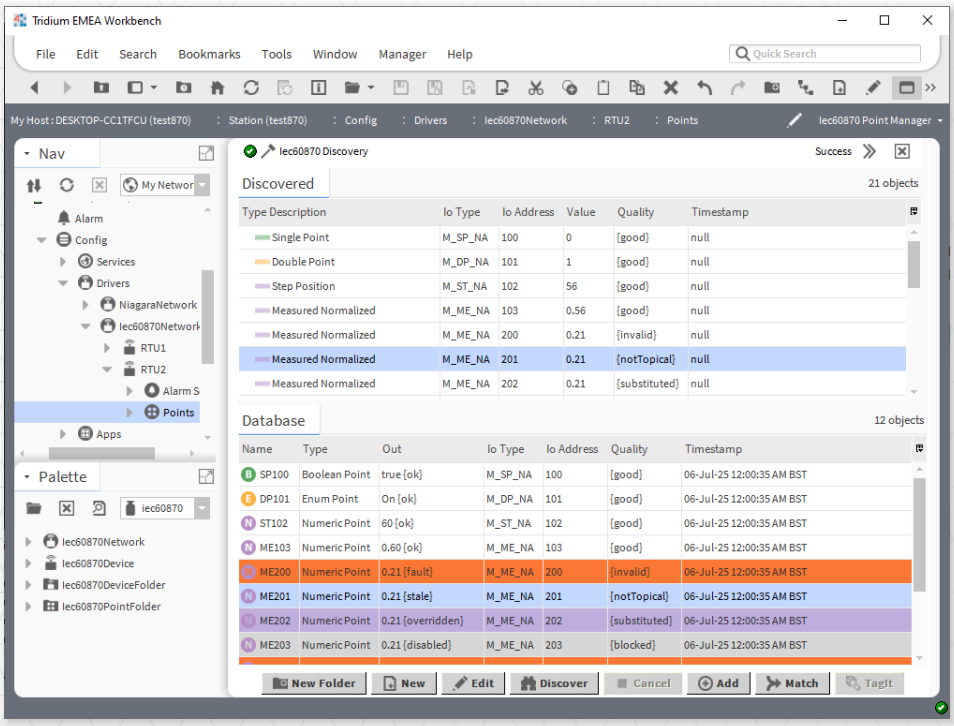
IEC 60870-5-104

Niagara Framework Driver

The IEC 60870-5-104 driver connects power system SCADA equipment to Tridium Niagara, enabling monitoring of electrical infrastructure alongside building automation from a unified interface.

The driver acts as a controlling station (client), communicating with RTUs, protection relays, and substation gateways from ABB, Siemens, Schneider Electric, GE, SEL, and other major power system vendors over standard TCP/IP. Points are discovered automatically via General and Counter Interrogation. The driver supports all standard data types including single/double points, measured values, and integrated totals, with full quality flag handling and timestamps. The driver operates in read-only mode for safe monitoring of critical power infrastructure, making it suitable for utility and industrial environments.

- ✓ IEC 60870-5-104 client (controlling station)
- ✓ TCP/IP communication
- ✓ Automated point discovery via General/Counter Interrogation
- ✓ Supports single/double points and measured values
- ✓ Integrated totals and spontaneous reporting
- ✓ Quality flag handling and timestamping
- ✓ Read-only operation for safe monitoring
- ✓ Works with all major power system vendors
- ✓ No annual fees
- ✓ Free technical support and upgrades



IEC 60870-5-104 Point Management in Niagara Workbench

SUPPORTED DEVICES

ABB	NovaTech	Kalkitech
Siemens	ZIV	Ingeteam
Schneider Electric	NR Electric	Mitsubishi Electric
GE Grid Solutions	NARI	Toshiba
SEL	Noja Power	

SYSTEM REQUIREMENTS

- ✓ Niagara framework 4.8 or later, including OEM versions
- ✓ JACE or Supervisor with TCP/IP network access to IEC 104 servers
- ✓ IEC 60870-5-104 driver license

CONNECTIVITY

TCP/IP

Connect Niagara to IEC 60870-5-104 compliant RTUs, PLCs, and substation gateways over standard TCP/IP. The driver acts as a controlling station (client), polling connected stations and receiving spontaneous updates.

ORDERING INFORMATION

Part Number	Description
IEC60870-J-10	IEC 60870 for JACE, 10 devices
IEC60870-J-20	IEC 60870 for JACE, 20 devices
IEC60870-J-UNL	IEC 60870 for JACE, unlimited devices
IEC60870-SUP	IEC 60870 for Supervisor, first 10 devices
IEC60870-SUP-10	IEC 60870 for Supervisor, extra 10 devices