DLMS / COSEM

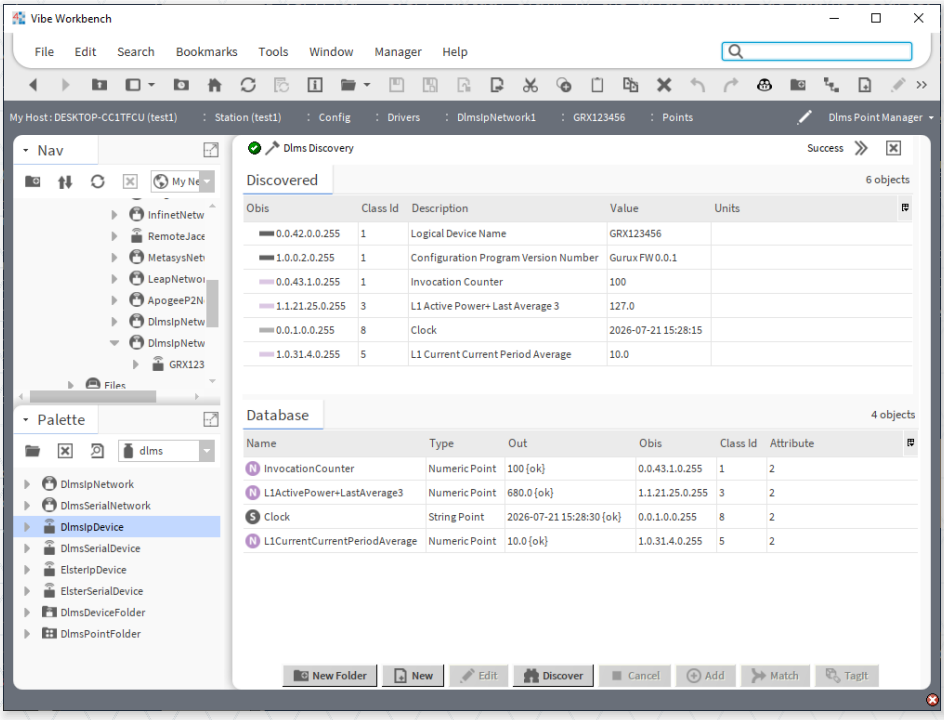
Niagara Framework Driver

The DLMS / COSEM driver reads utility meters directly from Tridium Niagara using the DLMS/COSEM application layer over direct HDLC (IEC 62056-46) or the IEC 62056-47 TCP wrapper. Meters connect over TCP/IP, directly or through a gateway, or over a serial line via RS-485 or an optical probe.

The driver is read-only: it polls the meter but never writes, so meter settings and values can never be changed from Niagara. One device model reads any DLMS/COSEM meter, with Logical Name or Short Name referencing detected automatically, and also reads classic IEC 62056-21 ASCII meters.

Automatic device discovery probes an endpoint and lists each meter found. Point discovery then reads the meter's OBIS objects and presents them with human-readable names, types, and units, ready for periodic polling.

- ✓ Full DLMS/COSEM over HDLC, the IEC 62056-47 wrapper, and IEC 62056-21 ASCII
- ✓ Automatic device discovery over TCP/IP
- ✓ Automatic OBIS point discovery and naming
- ✓ Logical Name and Short Name referencing
- ✓ true
- ✓ Reads kWh, kW, kVA, kVAr, V, A, power factor
- ✓ Multiple meters per gateway or RS-485 bus
- ✓ TCP gateway, RS-485, and optical links
- ✓ Read-only polling for safety
- ✓ No annual fees
- ✓ Free technical support and upgrades



Automatic OBIS Point Discovery Reading a Meter's Objects

SUPPORTED DEVICES

Landis+Gyr	Kamstrup	EDMI	Secure Meters
Itron	Elster	Aclara	Circutor
Siemens	Sagemcom	Diehl Metering	ZIV
ABB	Iskraemeco	Genus	Apator

SYSTEM REQUIREMENTS

- ✓ Niagara framework 4.8 or later, including OEM versions
- ✓ JACE or Supervisor with network access (TCP) or an RS-485 / optical port for serial meters
- ✓ TCP-to-serial gateway or optical / RS-485 converter, depending on the meter
- ✓ DLMS / COSEM driver license

CONNECTIVITY

TCP/IP

Connect Niagara over direct DLMS/COSEM via HDLC or the IEC 62056-47 wrapper, either straight to a meter with a network port or through a TCP-to-serial gateway.

Serial (RS-485 / Optical)

Connect via RS-485 or an optical probe for direct DLMS/COSEM or classic IEC 62056-21 readout, including the Mode E handoff to HDLC. Converters may be required depending on the meter's physical interface.

ORDERING INFORMATION

Part Number	Description
DLMS-J-10	DLMS / COSEM for JACE, 10 meters
DLMS-J-20	DLMS / COSEM for JACE, 20 meters
DLMS-J-UNL	DLMS / COSEM for JACE, unlimited meters
DLMS-SUP	DLMS / COSEM for Supervisor, first 10 meters
DLMS-SUP-10	DLMS / COSEM for Supervisor, extra 10 meters