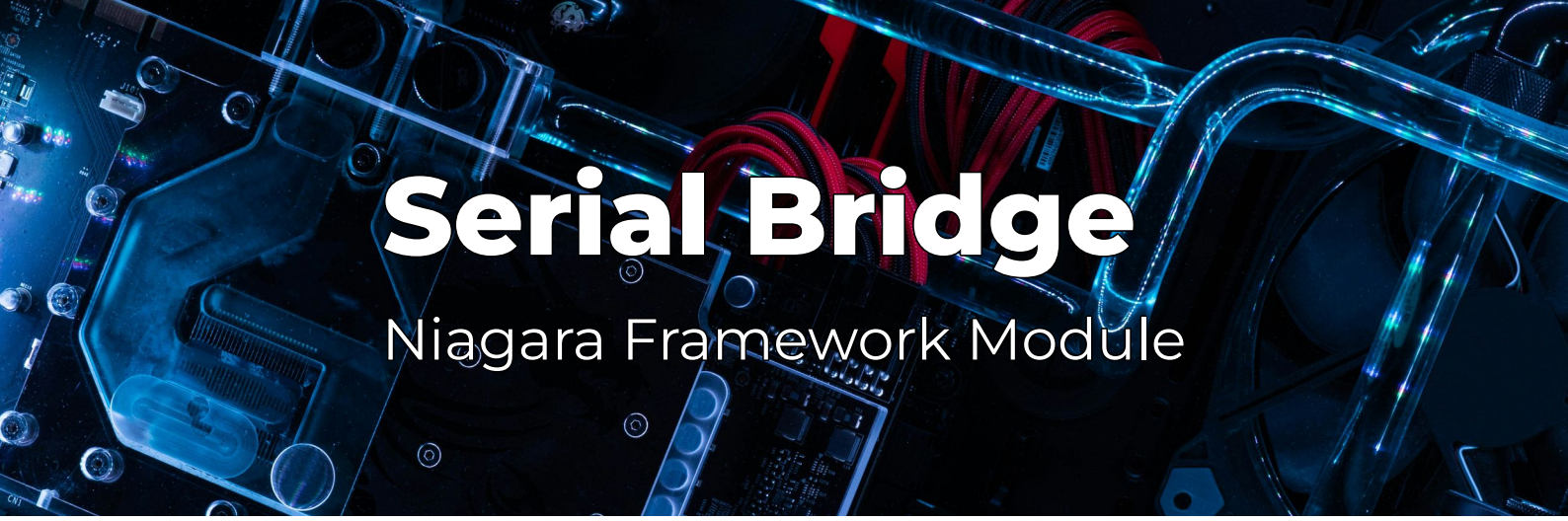
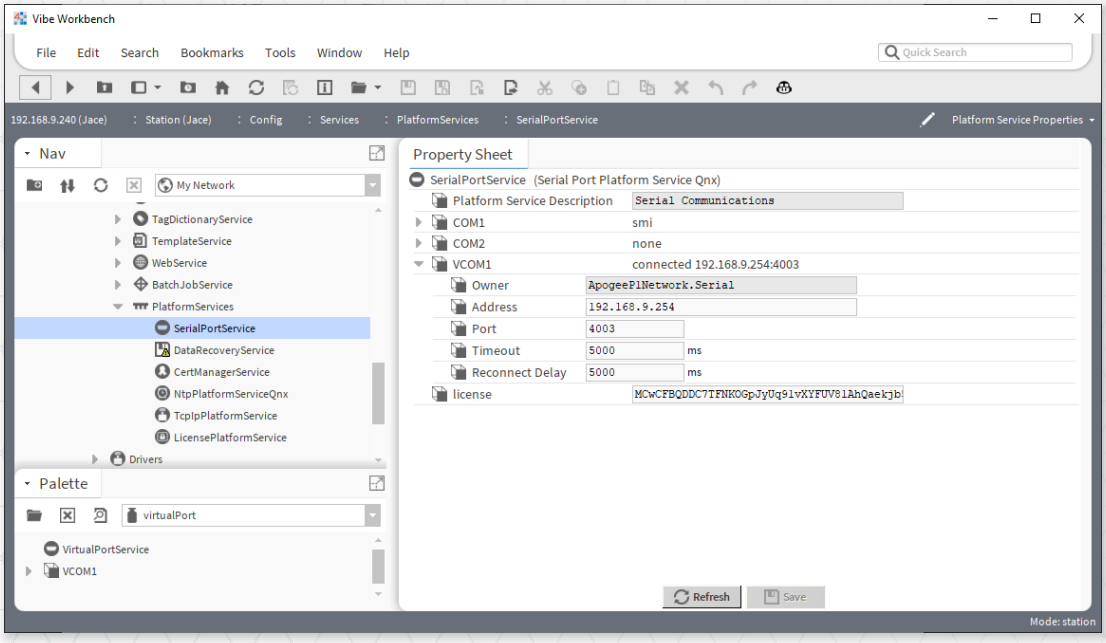


Serial Bridge

Niagara Framework Module

The Serial Bridge module connects Tridium Niagara serial drivers to serial devices however they are reached. Virtual COM ports communicate over TCP/IP with a serial-to-Ethernet gateway instead of a physical cable, and on a Windows Supervisor the module also opens the computer's own COM ports, including USB-to-serial adapters. It implements the standard Niagara serial port interface, so most existing serial drivers work without modification.
Virtual ports add extra serial ports to a JACE without additional hardware, reach remote RS-485 devices over the IP network instead of running long cable or deploying another JACE, and connect a Supervisor directly to serial devices without any JACE in between. Local COM ports let a Supervisor poll a meter through an optical probe or an RS-485 bus through a USB adapter. Ports reconnect automatically and show their state in real time. Serial Bridge was formerly called Virtual Serial Port.

- ✓ Virtual COM ports over TCP/IP to any serial-to-Ethernet gateway
- ✓ Local COM ports on a Windows Supervisor, including USB and Bluetooth adapters
- ✓ Compatible with most Niagara serial drivers
- ✓ Connect Supervisor directly to serial devices without JACE
- ✓ Extra RS-485 ports for JACE without additional hardware
- ✓ Reach remote RS-485 devices over IP instead of long cable
- ✓ Automatic reconnection after a network drop or a USB adapter replug
- ✓ Real-time port status monitoring
- ✓ No annual fees
- ✓ Free technical support and upgrades



Virtual port configuration in Niagara Workbench

SUPPORTED DEVICES

Moxa NPort	Perle IOLAN	Atop SE59xx
Digi Connect	USR-TCP232	Advantech EKI
Lantronix XPort	Schneider EGX	USB-to-serial adapters

SYSTEM REQUIREMENTS

- ✓ Niagara framework 4.8 or later, including OEM versions
- ✓ Virtual ports: JACE or Supervisor with TCP/IP access to a serial-to-Ethernet gateway
- ✓ Local COM ports: Supervisor on 64-bit Windows
- ✓ Serial Bridge module and license

CONNECTIVITY

TCP/IP

A virtual port forwards serial data to a serial-to-Ethernet gateway in raw TCP server mode. The gateway converts it to RS-485 or RS-232 at the device. Serial parameters are set on the gateway.

Local COM port

On a Windows Supervisor, the module opens the computer's COM ports: built-in RS-232, USB-to-RS-485 or RS-232 adapters, optical meter probes and Bluetooth serial ports. Baud rate, parity and flow control come from the serial driver.

ORDERING INFORMATION

Part Number	Description
SB-J-1	Serial Bridge for JACE, one port per license
SB-SUP-1	Serial Bridge for Supervisor, one port per license