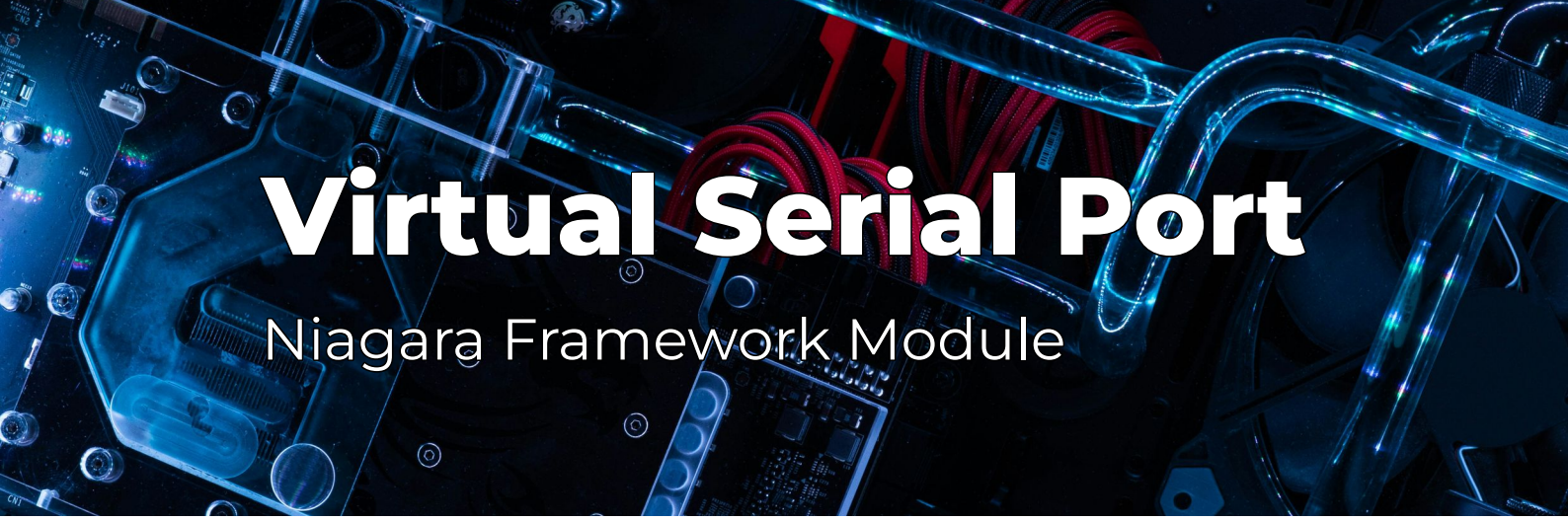
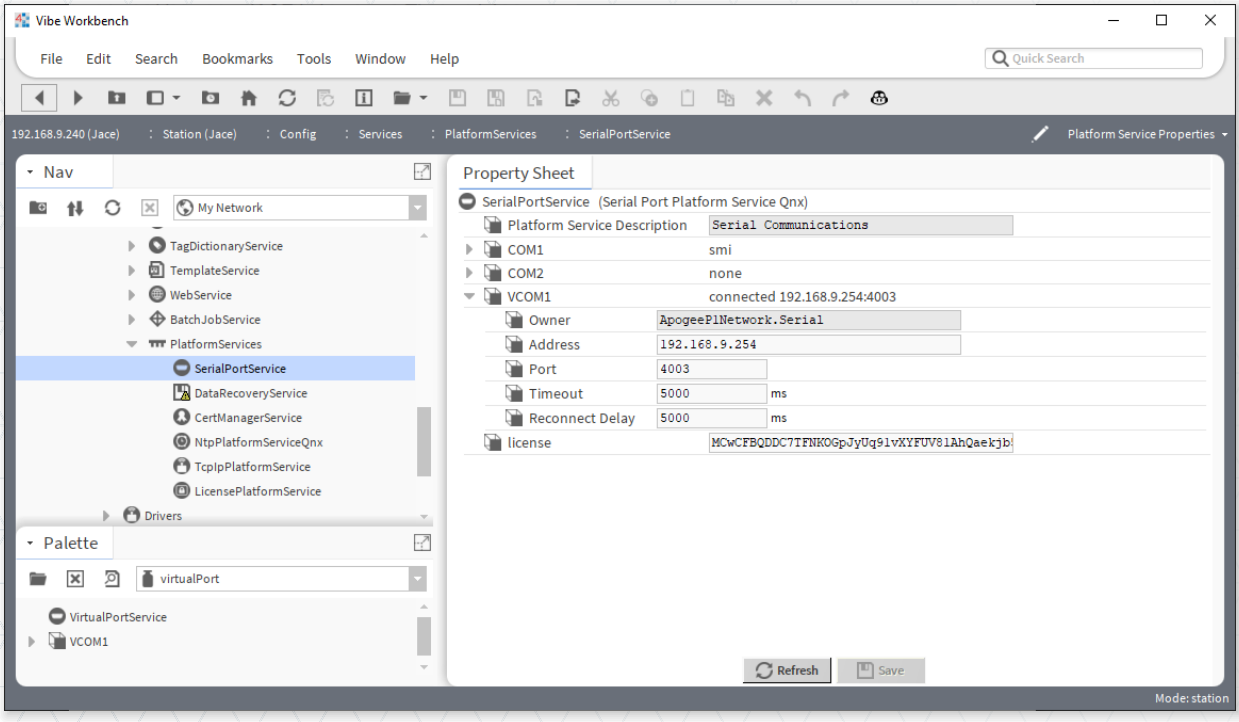


Virtual Serial Port

Niagara Framework Module

The Virtual Serial Port module creates virtual COM ports in Tridium Niagara that communicate over TCP/IP instead of physical serial cables. It implements the standard Niagara serial port interface, so most existing serial drivers work without modification. Each virtual port is configured with the IP address and TCP port of a remote serial-to-Ethernet gateway, replacing physical RS-485 or RS-232 wiring.
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. The module reconnects automatically on connection loss and provides real-time status monitoring. It works with any serial-to-Ethernet gateway, including Moxa, Lantronix, Digi, and Perle.

- ✓ Transparent serial port emulation over TCP/IP
- ✓ 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
- ✓ Works with any serial-to-Ethernet gateway
- ✓ Automatic reconnection on connection loss
- ✓ Real-time connection 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	Any TCP serial server

SYSTEM REQUIREMENTS

- ✓ Niagara framework 4.8 or later, including OEM versions
- ✓ JACE or Supervisor with TCP/IP network access
- ✓ Serial-to-Ethernet gateway (also called serial device server or terminal server)
- ✓ Virtual Port module and license

CONNECTIVITY

TCP/IP

Connect Niagara to any serial-to-Ethernet gateway over standard TCP/IP. The module creates a virtual serial port that forwards data to a remote TCP server, allowing serial protocols such as Siemens Apogee P1 or Johnson Controls N2 to operate transparently over Ethernet networks. No physical serial cables or COM ports required on the Niagara host.

ORDERING INFORMATION

Part Number	Description
VP-J-1	Virtual Port for JACE, one port per license
VP-SUP-1	Virtual Port for Supervisor, one port per license