Standard Motor Interface

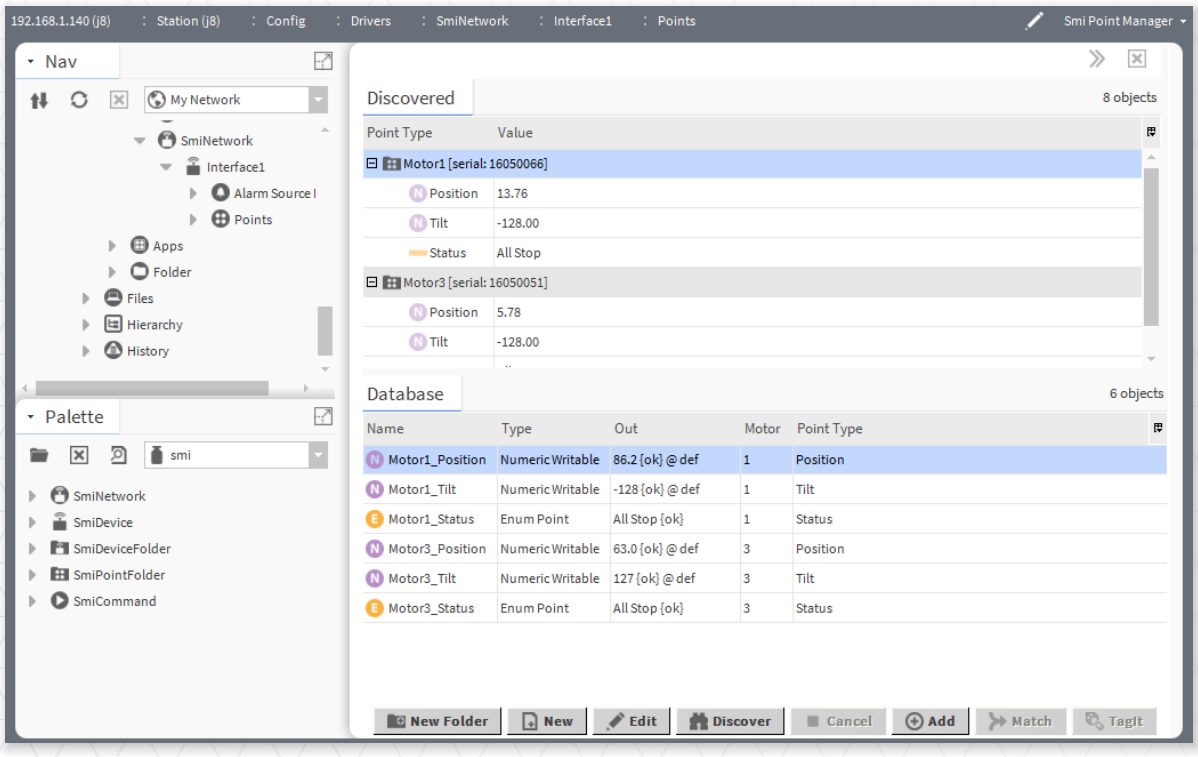
Niagara Framework Driver

The SMI driver enables Tridium Niagara to control and monitor motorized blinds, roller shutters, and solar shading systems from any SMI-compliant manufacturer, providing vendor-neutral facade management from the building automation platform.

The driver provides precise position control with 1% resolution and tilt angle adjustment, enabling sophisticated daylight harvesting and glare control strategies. Group control coordinates multiple blinds simultaneously for uniform facade appearance.

Motors are discovered automatically with real-time status and diagnostics available for each motor. Up to 256 motors can be managed on a single RS-485 network, supporting large-scale commercial installations.

- ✓ Controls motorized blinds, roller shutters, and solar shading
- ✓ Up to 256 motors per RS-485 network (16 per interface)
- ✓ Multiple RS-485 ports per JACE for independent networks
- ✓ Automatic motor discovery
- ✓ Position control with 1% resolution
- ✓ Tilt angle adjustment
- ✓ Group control for coordinated shading
- ✓ Real-time status and diagnostics
- ✓ Cable runs up to 350m
- ✓ Vendor-neutral (any SMI-compliant manufacturer)
- ✓ No annual fees
- ✓ Free technical support and upgrades



SMI Blind Control in Niagara Workbench

SUPPORTED DEVICES

Becker	Elero	Selve
Dunkemotoren	Schneider Electric	Beckhoff
Gerhard Geiger	Spiega	Warema
Vestamatic	Wieland Electric	Nice
ABB	Yris Technologie	Rademacher
APT	Loytec	Somfy

SYSTEM REQUIREMENTS

- ✓ Niagara framework 4.8 or later, including OEM versions
- ✓ JACE with RS-485 port
- ✓ SMI/RS-485 gateway interface
- ✓ SMI driver license

CONNECTIVITY

RS-485

Connect Niagara to SMI-compliant motorized blinds through RS-485 gateway interfaces. Each RS-485 bus supports up to 256 motors (16 per gateway interface) with cable runs up to 350 meters.

ORDERING INFORMATION

Part Number	Description
SMI-J-01	SMI for JACE, 1 interface (up to 16 motors)
SMI-J-05	SMI for JACE, 5 interfaces (up to 80 motors)
SMI-J-UNL	SMI for JACE, unlimited interfaces
SMI-SUP	SMI for Supervisor, first interface (up to 16 motors)
SMI-SUP-01	SMI for Supervisor, extra interface (up to 16 motors)