Integrate Honeywell C-Bus into the Tridium Niagara Framework

Neopsis GmbH extends the wide range of drivers available for all Niagara based devices. The C-Bus Connectivity Kit is the solution for all Tridium partners looking to integrate the Honeywell Excel controllers with other standard building automation protocols. The Excel IRC can be made available via the Excel 5000 controllers (e.g. XL500, XL100 and XL80) by generating *remote points* in these controllers.

The driver links to the C-Bus via the Intelligent External Converter (IEC). This converter is a microprocessor based device used for the physical connection to the C-Bus. There are serial and TCP/IP versions of the IEC. Both are supported by the driver. The change of state notification guarantees very short response times.

The driver runs on all Tridium stations such as Jace or Supervisor and perfectly integrates into the Niagara Workbench. Seamless integration into the framework, device and point discovery and alarm integration lower the engineering costs, minimize the learning curve and provide an efficient way to integrate the C-Bus with other protocols supported by Niagara. The driver is available for both Niagara^{AX} and Niagara4 frameworks.

Neopsis GmbH is a software development and system integration company focused on providing open interfaces to building automation systems and integration of this systems into the enterprise.

KEY FEATURES

Seamless Niagara^{AX} and Niagara4 Integration

Serial or TCP/IP

Reading and Writing DDC Points

Reading and Writing Extended Attributes

Alarm Integration

Device and Point Discovery
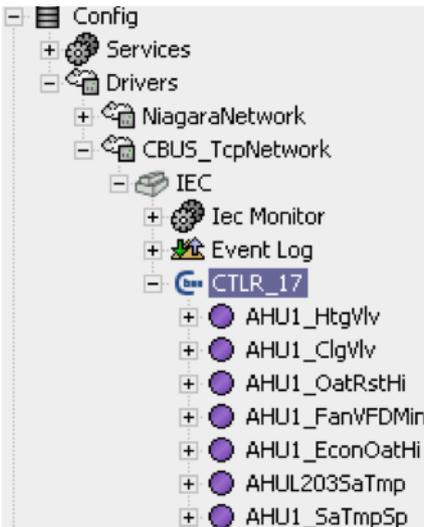
Time Program Editor

Parameter Editor

Date/Time Synchronization

Compatible with the XL5000 controllers

Intelligent Converter

The driver communicates with the C-Bus through the Intelligent External Converter (IEC). IEC provides the change notification service for the driver. You can connect up to 29 C-Bus devices with maximal 3'000 data points to one IEC.

Niagara Framework Integration

The C-Bus driver is written using the Niagara Framework and seamlessly integrates into the engineering Workbench. This minimizes the learning curve and makes the engineering more easier. Device and point discovery cuts down the setup time.
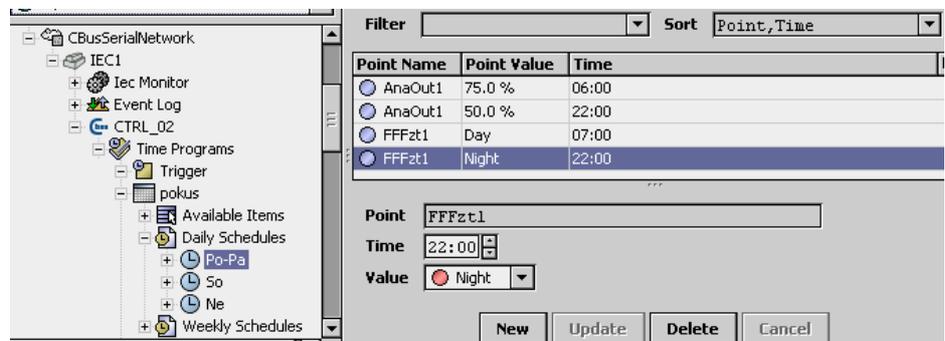
Reading and writing DDC points

The driver supports reading and writing DDC points of type Digital Input, Digital Output, Analog Input, Analog Output, Pseudo Digital (Virtual), Pseudo Analog (Virtual), Totalizer (Slow & Fast), Pulse and Multistate. Switching between auto and manual mode is automatically maintained by the driver.

Extended Attributes Support

The driver supports reading and writing (if available) of the following extended attributes: HighLimit1, HighLimit2, LowLimit1, LowLimit2, AlarmDelay, SensorOffset, AccumulatedRuntime, ServiceInterval, TimeSinceServiced, SuppressAlarm, PointEnabled, RuntimeEnable, ActiveState, AlarmType, AlarmStatus, TrendHysteresis and AlarmHysteresis.

Alarm and Journal Integration

Niagara data point status follows the C-Bus extended attribute Alarm Status. The C-Bus Alarm extension routes the Alarm Status changes into the Niagara alarm console.

Time Program and Parameter Editors

The driver supports editing of daily, weekly and yearly schedules and editing of parameters

How to order

NCBKITL	C-Bus Connectivity Kit serial
	IEC serial + Niagara Driver
NCBKITE	C-Bus Connectivity Kit Ethernet
	IEC Ethernet + Niagara Driver
NCB100P	Additional license 100 data points