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Integrating Honeywell C-Bus into the Tridium Niagara^{AX} Framework

Neopsis GmbH extends the wide range of drivers available for all Niagara^{AX} based devices. The Neopsis 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 XL800) 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; the driver supports both. The change of value notification guarantees very short response times.

The driver runs on all Tridium stations such as Jace or Supervisor and perfectly integrates into the Niagara^{AX} 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^{AX}.

KEY FEATURES

- Seamless Niagara^{AX} Integration
- Serial or TCP/IP
- Reading and Writing DDC Points
- Reading and Writing Extended Attributes
- Alarm Integration
- Device and Point Discovery
- Date/Time Synchronization
- Compatible with the XL5000 controllers

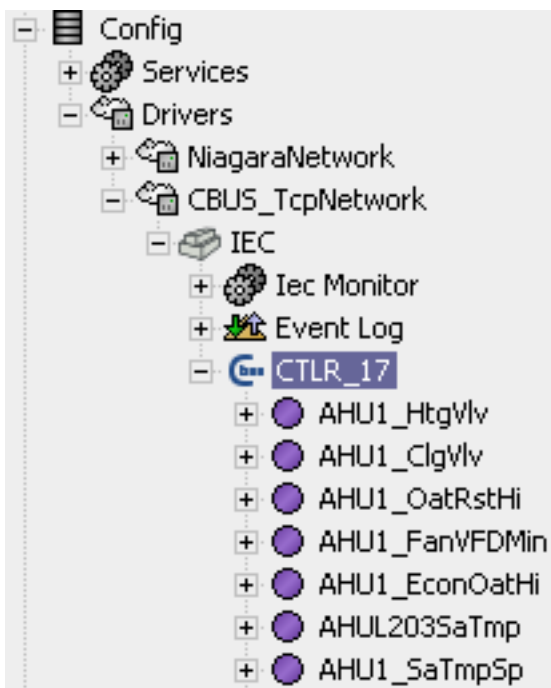
Intelligent Converter

The driver communicates with the C-Bus through the Intelligent External Converter (IEC). The IEC handles all C-Bus events and provides the change notification service for the driver. You can connect up to 30 C-Bus devices with maximum of 3,000 data points to one IEC. One driver can manage multiple intelligent converters.



Niagara^{AX} Integration

The C-Bus driver is written using Niagara^{AX} Framework and seamlessly integrates into the engineering Niagara^{AX} Workbench. This minimizes the learning curve and makes the engineering easier. The combination of 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. The driver automatically maintains switching between auto and manual mode.

Extended Attributes Support

The driver supports reading and writing (if available) of the following extended attributes: HighLimit1, HighLimit2, LowLimit1, LowLimit2, Alarm Delay, Sensor Offset, Accumulated Runtime, Service Interval, Time Since Serviced, Suppress Alarm, Point Enabled, Runtime Enable, Active State, Alarm Type and Alarm Status.

<input type="checkbox"/> Enabled	true
<input type="checkbox"/> C Bus Name	CBusDevice17
<input type="checkbox"/> C Bus Address	17
<input type="checkbox"/> C Bus Device Type	Excel
<input checked="" type="checkbox"/> AHU1_HtgVlv	100.0 {ok} @ cbus
<input checked="" type="checkbox"/> AHU1_ClgVlv	0.0 {ok} @ cbus
<input checked="" type="checkbox"/> AHU1_OatRstHi	39.2 {ok}
<input checked="" type="checkbox"/> AHU1_FanVFDMin	25.0 {ok}
<input checked="" type="checkbox"/> AHU1_EconOatHi	65.0 {ok}
<input checked="" type="checkbox"/> AHUL2035aTmp	0.0 {alarm}
<input checked="" type="checkbox"/> AHU1_SaTmpSp	60.0 {ok}

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.



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