
INTELLIFLEX IO CENTRAL NETWORK CONTROLLER BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT (PICS)

May 20, 2019

Vendor Name: Draper Inc. (Vendor ID 900)
Product Name: IntelliFlex IO Central Network Controller
Product Model Number: CNC - C156.271

Application Software Version: 1.x
Firmware Revision: 1.x
BACnet Protocol Revision: 135-2012

PRODUCT DESCRIPTION

The Central Network Controller is a touchscreen device that adds advanced functionality to an IntelliFlex I/O network. It allows for entire I/O networks to be integrated with other systems with a single BACnet/IP device. Graphical user interfaces are provided on the local touchscreen as well as remotely accessible web interfaces.

BACNET APPLICATION SPECIFIC CONTROLLER (B-ASC)

The Central Network Controller supports the following BACnet Interoperability Building Blocks (BIBBs):

- DS-RP-B – Data Sharing-ReadProperty-B
- DS-WP-B – Data Sharing-WriteProperty-B
- DS-RPM-B – Data Sharing-ReadPropertyMultiple-B
- DS-WPM-B – Data Sharing-WritePropertyMultiple-B
- SCHED-I-B – Scheduling-Internal-B
- DM-DDB-B – Device Management-DynamicDeviceBinding-B
- DM-DOB-B – Device Management-DynamicObjectBinding-B
- DM-DCC-B – Device Management-DeviceCommunicationControl-B
- DM-UTC-B – Device Management-UTCTimeSynchronization-B

SEGMENTATION CAPABILITY

The CNC supports segmentation for sending or receiving with a window size of 1476.

STANDARD OBJECT TYPES SUPPORTED

The Central Network Controller supports the following object types:

- Device
- Analog Value – Commandable. Used to show/override shade positions
 - Each shade is represented by 2 AV objects, one for the vertical position of the shade and one for the tilt value. The position AV objects begin at instance number 1, and the tilt AV objects begin at instance number 1001.
 - The present value represents the current position or tilt as a percentage, where 0 is open and 100 is closed.
 - Setting either AV object OutOfService to true will disable the shade from operating.
- Multi-state Output – Commandable. Used to command groups of shades from a single point.
- Analog Input – Used to represent sensor readings, starting at instance number 1.

All objects support the required properties and can not be dynamically created or deleted. There are no range restrictions on the writable values.

DATA LINK LAYER

The Central Network Controller supports BACnet IP.

OTHER SPECIFICATIONS

- Device Address Binding – Not Supported
- BACnet/IP Broadcast Management Device (BBMD) – Not Supported
- Character Set - ISO 10646 (UTF-8)
- BACnet Security - Capable of operating without BACnet Network Security