



Centaurus Prime

BACnet Protocol Implementation Conformance Statement

Date: 14 October, 2005
Vendor Name: Centaurus Prime
Product Name: BACnet Gateway
Product Model Numbers: Staefa, Trane-485, others as developed
Application Software Version: 2.1A
BACnet Protocol Revision: 135P-2002 (up to Annex L)

Product Description:

This is a software product used in an embedded PC computer to provide bi-directional data communications and control between various proprietary HVAC, RTU, SCADA, and PLC systems. The software, along with an embedded computer, firmware, and any conversion hardware (e.g., RS485 converters) with all necessary power supplies is provided in a NEMA-4 enclosure.

The BACnet Gateway performs data conversions, auto-configuration, and full control of the proprietary equipment. The BACnet Gateway does not do routing. This product ONLY supports BACnet/IP (Annex J) protocol on 10-Mbaud Ethernet.

BACnet Standardized Device Profile (Annex L): This is a Gateway device. The complete list of available field equipment that this product is a gateway to is maintained on the Centaurus Prime web site (www.centaurusprime.com).

BACnet Interoperability Building Blocks Supported (Annex K):

K.1.2 BIBB - Data Sharing - ReadProperty-B (DS-RP-B)
K.1.4 BIBB - Data Sharing - ReadPropertyMultiple-B (DS-RPM-B)
K.1.8 BIBB - Data Sharing - WriteProperty-B (DS-WP-B)
K.5.2 BIBB - Device Management-Dynamic Device Binding - B (DM-DDB-B)
K.5.4 BIBB - Device Management-Dynamic Object Binding - B (DM-DOB-B)
K.5.12 BIBB - Device Management-TimeSynchronization-B (DM-TS-B)

Data Link Layer and Networking Options:

This device only supports BACnet/IP, Annex J. It is NOT a foreign device.

This device only supports 10-Mbaud Ethernet, with the current embedded-PC provided.

This device does not act as a Router or a BBMD; nor does it support registration by foreign devices.

This device only supports the ANSI X3.4 Character set.

Able to transmit segmented messages	<input type="radio"/> yes	<input checked="" type="radio"/> no	Window Size: 1500
Able to receive segmented messages	<input type="radio"/> yes	<input checked="" type="radio"/> no	Window Size: 1500

Standard BACnet object types supported:

- Device Object
- Analog Input
- Analog Output
- Analog Value (if supported by field hardware)
- Binary Input
- Binary Output
- Binary Value (if supported by field hardware)

Notes on standard BACnet services for these objects:

1. BACnet "CreateObject" is not supported. Field auto-discovery creates all objects.
2. BACnet "DeleteObject" is not supported. The field equipment the gateway attaches to generally do not support this operation.
3. No proprietary or additional properties exist.
4. All required properties are implemented for all object types supported.
5. The object properties "Reliability", "Device-Type", "Active-Text", "Inactive-Text", "Local-Time" and "Local-Date" are supported for the objects that have those properties.