Phoenix Controls

Protocol Implementation Conformance Statement (PICS)

Date: November 10, 2010
Vendor Name: Phoenix Controls
Product Name: MacroServer™
Product Model Numbers: SRV100 and SRU100
Software/Firmware Version: 4.2
BACnet Protocol Revision: 2 (135-2001)
Product Description: A data server acting as a router to a network of virtual BACnet™ devices, each of which maps to a Celeris® node.

The MacroServer acts as a router to a network of virtual BACnet devices, each mapped to a Phoenix Controls BACnet controller. A BMS that wants to Read/Write points from Phoenix Controls devices must support sending requests to a node on the other side of a router – the Phoenix devices will appear to be on a network other than that which the BMS is on.

BACnet Standardized Device Profile (Annex L)	
BACnet Operator Work Station (B-OWS)	☐
BACnet Building Controller (B-BC)	☐
BACnet Advanced Application Controller (B-AAC)	☐
BACnet Application Specific Controller (B-ASC)	☒
BACnet Smart Sensor (B-SS)	☐
BACnet Smart Actuator (B-SA)	☐

Supported BACnet Interoperability Building Blocks (BIBBs) (Annex K)			
DS-RP-B	DM-DOB-B	AE-N-I-B	NM-RC-B
DS-RPM-B	DM-DDB-A	AE-ACK-B	
DS-WP-B	DM-DDB-B	AE-ASUM-B	
DS-WPM-B	DM-DCC-B	AE-INFO-B	
DS-COV-B	DM-TS-B		
	DM-UTC-B		
	DM-LM-B		

Standard Object Types Supported					
Object Type	**Supported**	**Dynamically Creatable**	**Dynamically Deletable**	**Optional Properties Supported**	**Writable Properties**
Analog Input	☒	☐	☐	Description Reliability Resolution COV Increment Time Delay Notification Class High Limit Low Limit Deadband Limit Enable Event Enable Acked Transitions Notify Type Event Time Stamps	Description COV Increment High Limit Low Limit Limit Enable Event Enable Time Delay Deadband
Analog Output	☒	☐	☐	Description Reliability Resolution COV Increment Time Delay Notification Class High Limit Low Limit Deadband Limit Enable Event Enable Acked Transitions Notify Type Event Time Stamps	Present Value Description COV Increment High Limit Low Limit Limit Enable Event Enable Time Delay Deadband
Binary Input	☒	☐	☐	Description Reliability Inactive Text Active Text Time Delay Notification Class Alarm Value Event Enable Acked Transitions Notify Type Event Time Stamps	Description Active Text Inactive Text Event Enable Time Delay

Standard Object Types Supported					
Object Type	**Supported**	**Dynamically Creatable**	**Dynamically Deletable**	**Optional Properties Supported**	**Writable Properties**
Binary Output	☒	☐	☐	Description Reliability Inactive Text Active Text Time Delay Notification Class Feedback Value Event Enable Acked Transitions Notify Type Event Time Stamps	Present Value Description Active Text Inactive Text Event Enable Time Delay
Device	☒	☐	☐	Description Location Max Segments Accepted Local Time Local Date UTC Offset Daylight Savings Status APDU Segment Timeout Device Address Binding Database Revision Active COV Subscriptions	Description
Multi-State Input	☒	☐	☐	Description Reliability State Text Time Delay Notification Class Alarm Values Fault Values Event Enables Acked Transitions Notify Type	Description Event Enable Time Delay
Multi-State Output	☒	☐	☐	Description Reliability State Text Time Delay Notification Class Feedback Values Event Enables Acked Transitions Notify Type Event Time Stamps	Description Present Value State Text Event Enable Time Delay

Standard Object Types Supported					
Object Type	**Supported**	**Dynamically Creatable**	**Dynamically Deletable**	**Optional Properties Supported**	**Writable Properties**
Notification Class	☒	☐	☐	Description	Description Priority Recipient List

Data Link Layer Options			
BACnet IP (Annex J)	☒	MS/TP slave (Clause 9)	☐
BACnet IP (Annex J) Foreign Device	☒	Point-To-Point, EIA 232 (Clause 10)	☐
ISO8802-3 Ethernet (Clause 7)	☒	Point-To-Point, modem (Clause 10)	☐
ATA 878.1, 2.5Mb ARCNET (Clause 8)	☐	LonTalk (Clause 11), medium	☐
ATA 878.1, EIA-485 ARCNET (Clause 8)	☐	Other	☐
MS/TP master (Clause 9)	☐		

Segmentation Capability				
Segmented Requests Supported	☒ Yes	☐ No	Window Size	
Segmented Responses Supported	☒ Yes	☐ No	Window Size	

Networking Options		
Router, Clause 6	☒ Yes	☐ No
Annex H, BACnet tunneling router over IP	☐ Yes	☒ No
BACnet/IP Broadcast Management Device (BBMD)	☒ Yes	☐ No
BBMDs support registrations by Foreign Devices	☒ Yes	☐ No

Character Sets Supported			
ANSI X3.4	☒	ISO 10646 (UCS-4)	☐
IBM™/Microsoft™ DBCS	☐	ISO 10646 (UCS-2)	☐
JIS C 6226	☐	ISO 8859-1	☐

Note: Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

If this product is a communication gateway, describe the types of non-BACnet equipment/networks supported:

Celeris, Traccel, or Theris valve-mounted controllers communcating on a LonTalk network.