

Protocol Implementation Conformance Statement (PICS)

Date: November 10, 2010
Vendor Name: Phoenix Controls
Product Name: MicroServer™
Product Model Numbers: SRV200
Software/Firmware Version: Niagara version 3.2.20+
BACnet Protocol Revision: 4 (135-2004)
Product Description: A data server functioning as a single BACnet™ device mapping data from Phoenix Controls valve-mounted controllers to BACnet Objects and Properties.

BACnet Standardized Device Profile (Annex L)	
BACnet Operator Work Station (B-OWS)	<input type="checkbox"/>
BACnet Building Controller (B-BC)	<input checked="" type="checkbox"/>
BACnet Advanced Application Controller (B-AAC)	<input type="checkbox"/>
BACnet Application Specific Controller (B-ASC)	<input type="checkbox"/>
BACnet Smart Sensor (B-SS)	<input type="checkbox"/>
BACnet Smart Actuator (B-SA)	<input type="checkbox"/>

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

Note: Additional services are supported but not used in this application.

Standard Object Types Supported					
Object Type	Supported	Dynamically Creatable	Dynamically Deletable	Optional Properties Supported	Writable Properties
Analog Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description Device Type Reliability Min Present Value Max Present Value Resolution COV Increment Time Delay Notification Class High Limit Low Limit Deadband Limit Enable Event Enable Acked Transitions Notify Type Event Time Stamps	Object Name Description Out Of Service COV Increment High Limit Low Limit Limit Enable Time Delay Deadband
Analog Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description Device Type Reliability Min Present Value Max Present Value Resolution COV Increment Time Delay Notification Class High Limit Low Limit Deadband Limit Enable Event Enable Acked Transitions Notify Type Event Time Stamps	Object Name Description COV Increment High Limit Low Limit Limit Enable Time Delay Deadband
Analog Value ¹	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Standard Object Types Supported					
Object Type	Supported	Dynamically Creatable	Dynamically Deletable	Optional Properties Supported	Writable Properties
Binary Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description Device Type Reliability Inactive Text Active Text Change of State Time Change of State Count Time of State Count Reset Elapsed Active Time Time Of Active Time Reset Time Delay Notification Class Alarm Value Event Enable Acked Transitions Notify Type Event Time Stamps	Description Active Text Inactive Text Change Of State Count Elapsed Active Time Time Delay Notification Class Alarm Value Notify Type
Binary Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description Device Type Reliability Inactive Text Active Text Change of State Time Change of State Count Time of State Count Reset Elapsed Active Time Time Of Active Time Reset Min Off Time Min On Time Time Delay Notification Class Feedback Value Alarm Value Event Enable Acked Transitions Notify Type Event Time Stamps	Description Active Text Inactive Text Change of State Count Elapsed Active Time Min Off Time Min On Time Time Delay Notification Class Alarm Value Notify 'Type
Binary Value ¹	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Standard Object Types Supported					
Object Type	Supported	Dynamically Creatable	Dynamically Deletable	Optional Properties Supported	Writable Properties
Device	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Location Description Protocol Object Types Supported Max Segments Accepted Local Time Local Date UTC Offset Daylight Savings Status APDU Segment Timeout Max Master Max Info Frames Device Address Binding Database Revision Configuration Files Last Restore Time Backup Failure Timeout Active COV Subscriptions	Location Description Backup Failure Timeout
Multi-State Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description Device Type Reliability State Text Time Delay Notification Class Alarm Values Fault Values Event Enable Acked Transitions Notify Type Event Time Stamps	Description State Text Time Delay Notification Class Alarm Values Notify Type
Multi-State Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description Reliability State Text Time Delay Notification Class Feedback Values Event Enable Acked Transitions Notify Type Event Time Stamps	Description Present Value State Text Event Enable Time Delay Deadband
Multi-State Value ¹	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Standard Object Types Supported					
Object Type	Supported	Dynamically Creatable	Dynamically Deletable	Optional Properties Supported	Writable Properties
Calendar ¹	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A
File ¹	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A
Loop ¹	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A
Trend ¹	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A
Notification Class	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description	Description Priority Recipient List
Schedule ¹	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A

Table Notes:
1. Object Type supported but no Object of this type is present in the application.

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

Segmentation Capability				
Transmit Segmented Messages	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Window Size	10
Receive Segmented Messages	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Window Size	

Networking Options		
Router, Clause 6	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Annex H, BACnet tunneling router over IP	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
BACnet/IP Broadcast Management Device (BBMD)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
BBMDs support registrations by Foreign Devices	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Character Sets Supported			
ANSI X3.4	<input checked="" type="checkbox"/>	ISO 10646 (UCS-4)	<input type="checkbox"/>
IBM™/Microsoft™ DBCS	<input type="checkbox"/>	ISO 10646 (UCS-2)	<input checked="" type="checkbox"/>
JIS C 6226	<input type="checkbox"/>	ISO 8859-1	<input checked="" type="checkbox"/>
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 communicating on a LonTalk network.