ECAT-1000 BACnet PICS

BACnet Protocol Implementation Conformance Statement (PICS)

Date:	August 18, 2016
Vendor Name:	ICČ, Inc.
Product Name:	ECAT-1000 Multiprotocol EtherCAT Gateway
Product Model Number:	ECAT-1000
Applications Software Version:	V5.200
Firmware Revision:	V5.200
BACnet Protocol Revision:	12
Product Description:	
	har CAT to DC 405 multiplicate cal material. This pu

The ECAT-1000 is an EtherCAT to RS-485 multiprotocol gateway. This product supports native BACnet, connecting directly to the MS/TP LAN using baud rates of 9600, 19200, 38400, 57600, 76800, and 115200. The device can be configured as a BACnet Client or as a BACnet Server.

BACnet Standard Device Profile (Annex L):

BACnet Operator Workstation (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)

BACnet Interoperability Building Blocks Supported (Annex K):

Data Sharing – ReadProperty-A (DS-RP-A)
Data Sharing – ReadProperty-B (DS-RP-B)
Data Sharing – ReadPropertyMultiple-B (DS-RPM-B)
Data Sharing – WriteProperty-A (DS-WP-A)
Data Sharing – WriteProperty-B (DS-WP-B)
Data Sharing – WritePropertyMultiple-B (DS-WPM-B)
Device Management – Dynamic Device Binding-A (DM-DDB-A)
Device Management – Dynamic Object Binding-B (DM-DDB-B)
Device Management – Dynamic Object Binding-B (DM-DOB-B)
Device Management – Dynamic Object Binding-B (DM-DOB-B)

Device Management – DeviceCommunicationControl-B (DM-DCC-B)

☑ Device Management – ReinitializeDevice-B (DM-RD-B)

Segmentation Capability:

□ Able to transmit segmented messages	Window Size
□ Able to receive segmented messages	Window Size

Standard Object Types Supported:

	Object Type									
Property	Device	Binary Input	Binary Output		Analog Input	Analog Output	Analog Value	Multi- state Input	Multi- state Output	Multi- state Value
Object Identifier	R	R	R	R	R	R	R	R	R	R
Object Name	R	R	R	R	R	R	R	R	R	R
Object Type	R	R	R	R	R	R	R	R	R	R
System Status	R									
Vendor Name	R									
Vendor Identifier	R									
Model Name	R									
Firmware Revision	R									
App Software Revision	R									
Protocol Version	R									
Protocol Revision	R									
Services Supported	R									
Object Types Supported	R									
Object List	R									
Max APDU Length	R									
Segmentation Support	R									
APDU Timeout	W (1065535)									
Number APDU Retries	W (0…10)									
Max Master	W (1…127)									
Max Info Frames	R									
Device Address Binding	R									
Database Revision	R									
Present Value		R	W	W	R	W	W	R	W	W
Status Flags		R	R	R	R	R	R	R	R	R
Event State		R	R	R	R	R	R	R	R	R
Reliability		R	R	R	R	R	R	R	R	R
Out-of-Service		R	R	R	R	R	R	R	R	R
Number of States								R	R	R
Units					R	R	R			
Priority Array			R	R		R	R		R	R
Relinquish Default			R	R		R	R		R	R
Polarity		R	R							
Inactive Text		R	R	R						
Active Text		R	R	R						

R – readable using BACnet services W – readable and writable using BACnet services

Data Link Layer Options:

BACnet IP, (Annex J)
BACnet IP, (Annex J), Foreign Device
□ ISO 8802-3, Ethernet (Clause 7)
□ ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s)
MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 57600, 76800, 115200
MS/TP slave (Clause 9), baud rate(s):
Point-To-Point, EIA 232 (Clause 10), baud rate(s):
Point-To-Point, modem, (Clause 10), baud rate(s):
□ LonTalk, (Clause 11), medium:
BACnet/ZigBee (ANNEX O)
Other:

Device Address Binding:

Is static device binding supported? (This is currently for two-way communication with MS/TP slaves and certain other devices.) ⊠ Yes □ No

Networking Options:

- □ Router, Clause 6 List all routing configurations
- □ Annex H, BACnet Tunneling Router over IP
- □ BACnet/IP Broadcast Management Device (BBMD)

Does the BBMD support registrations by Foreign Devices?	□ Yes	🗆 No
Does the BBMD support network address translation?	□ Yes	🗆 No

Network Security Options:

⊠ Non-secure Device - is capable of operating without BACnet Network Security

- □ Secure Device is capable of using BACnet Network Security (NS-SD BIBB)
 - □ Multiple Application-Specific Keys:
 - □ Supports encryption (NS-ED BIBB)
 - □ Key Server (NS-KS BIBB)

Character Sets Supported:

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

🖂 ISO 10646 (UTF-8)	□ IBM [™] /Microsoft [™] DBCS	🗆 ISO 8859-1
□ ISO 10646 (UCS-2)	□ ISO 10646 (UCS-4)	🗆 JIS X 0208

If this product is a communication gateway, describe the types of non-BACnet equipment/networks(s) that the gateway supports:

Refer to protocol-specific manuals for other supported protocols.