BACnet Protocol Implementation Conformance Statement

Date: **Aug 29, 2013**
Vendor Name: **I-Controls, Inc**
Product Name: **iCos**
Product Model Number: **4.0**
Applications Software Version: **iCOSApp Pro V1.00**
Firmware Revision: **iCOSBACnet Pro V1.00**
BACnet Protocol Version: **1**
BACnet Protocol Revision: **6**

Product Description:
iCos 4.0 is a Windows-based user interface software that provides monitoring and configuration of connected BACnet controllers.
User designed graphics allow BMS managers to supervise and operate buildings easily and efficiently by monitoring equipment status, alarms, adjusting setpoints and schedule.
iCos 4.0 supports BACnet IP, as well as Modbus, OPC and other protocols.

BACnet Standardized Device Profile (Annex L):

☐ **BACnet Advanced Operator Workstation (B-AWS)**
☑ **BACnet Operator Workstation (B-OWS)**
☐ **BACnet Operator Display (B-OD)**
☐ **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)**
☐ **Other BACnet Device (B-Oth)**

List all BACnet Interoperability Building Blocks Supported (Annex K):

	ReadProperty-A	DS-RP-A
	ReadProperty-B	DS-RP-B
	ReadPropertyMultiple-A	DS-RPM-A
Data Sharing	WriteProperty-A	DS-WP-A
	WritePropertyMultiple-A	DS-WPM-A
	View-A	DS-V-A
	Modify-A	DS-M-A

	Alarm and Event - Notification-A	AE-N-A
	Alarm and Event - ACK-A	AE-ACK-A
	Alarm and Event - Information - A	AE-INFO-A
Alarm & Event Management	Alarm and Event – Alarm Summary - A	AE-ASUM-A
	Alarm and Event – Enrollment Summary - A	AE-ESUM-A
	Alarm and Event - Alarm Summary View-A	AE-AS-A
	Alarm and Event - View and Modify-A	AE-VM-A

	Alarm and Event - View Notifications-A	AE-VN-A

	Scheduling - A	SCHED – A
Scheduling	Scheduling - View and Modify-A	SCHED-VM-A

	Trending – Viewing and Modifying Trends - A	T-VMT-A
Trending	Trending - View-A	T-V-A

	Dynamic Device Binding-A	DM-DDB-A
	Dynamic Device Binding-B	DM-DDB-B
Device & Network Management	Dynamic Object Binding-B	DM-DOB-A
	Manual Time Synchronization-A	DM-MTS-A
	Reinitialize Device-A	DM-RD-A

Segmentation Capability:

☐ Segmented requests supported   <u>NO</u>   Window Size _____
☐ Segmented responses supported   <u>NO</u>   Window Size _____

Standard Object Types Supported:
An object type is supported if it may be present in the device. For each standard Object Type supported provide the following data:
    1) Whether objects of this type are dynamically creatable using the CreateObject service
    2) Whether objects of this type are dynamically deletable using the DeleteObject service
    3) List of the optional properties supported
    4) List of all properties that are writable where not otherwise required by this standard
    5) List of proprietary properties and for each its property identifier, datatype, and meaning
    6) List of any property range restrictions

Object Type	Properties	
Device	Object_Identifier	Protocol_Revision
	Object_Name	Protocol_Service_Supported
	Object_Type	Protocol_Object_Types_Supported
	System_Status	Obejct_List
	Vendor_Name	Max_APDU_Length_Accepted
	Vendor_Identifier	Segmentation_Supported
	Model_Name	Local_Time
	Firmware_Revision	Local_Date
	Application_Software_Version	APDU_Timeout
	Location	Number_Of_APDU_Retries
	Description	Device_Address_Binding
	Protocol_Version	Datavase_Revision

Data Link Layer Options:

☑ BACnet IP, (Annex J)
☑ BACnet IP, (Annex J), Foreign Device
☐ ISO 8802-3, Ethernet (Clause 7)
☐ ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
☐ ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s) _____

☐ MS/TP master (Clause 9), baud rate(s): __AUTO, 9600, 19200, 38400, 76800__
☐ 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: _____
☐ Other: _____

Device Address Binding:

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

Networking Options:

☐ Router, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.
☐ Annex H, BACnet Tunneling Router over IP
☐ BACnet/IP Broadcast Management Device (BBMD)
      Does the BBMD support registrations by Foreign Devices?   ☐ Yes   ☐ No

Character Sets Supported:

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

☑ANSI X3.4/UTF-8	☐ IBM™/Microsoft™ DBCS	☐ ISO 8859-1
☐ ISO 10646 (UCS-2)	☐ ISO 10646 (UCS-4)	☐ JIS C 6226

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