

BACnet Protocol Implementation Conformance Statement

Sept 2, 2004

Products

Product	Model Number	Protocol Revision	Software Version	Firmware Version
ISN ConneXsys UDC	CX-UDC	135-2001 (1)	OCS1.0	

Vendor Information

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Product Description

The CX-UDC Controller is an intelligent Direct Digital Controller (DDC) for building control functions and energy management. As a networkable controller it is customizable to virtually any HVAC or building control application. The CX-UDC operates on a BACnet® MS/TP network, allowing connectivity with other devices and systems which comply with the BACnet standard developed by ASHRAE®. Modularity is achieved using plug-and-play modules to select the appropriate type and number of I/O points for a specific application. Up to 10 I/O modules allow up to 110 I/O points configured in virtually any mix. The modules allow resistance, digital, pulse, 0 to 10 or 0 to 5 VDC, or 0-20 mA inputs and digital or 0-10 VDC outputs. Two additional output modules offer relay outputs with changeover contacts.

BACnet Standardized Device Profile

Product	Device Profile	Additional BIBBs	Tested
List of products that support this	BACnet Operator Workstation (B-OWS)		
List of products that support this	BACnet Building Controller (B-BC)		
List of products that support this	BACnet Advanced Application Controller (B-AAC)		
CX-UDC	BACnet Application Specific Controller (B-ASC)		
List of products that support this	BACnet Smart Sensor (B-SS)		
List of products that support this	BACnet Smart Actuator (B-SA)		

Supported BIBBs

Application Service

Data Sharing – Read Property – A
 Data Sharing – Read Property – B
 Data Sharing – Read Property Multiple – B
 Data Sharing – Write Property – A
 Data Sharing – Write Property – B

Designation

DS-RP-A
 DS-RP-B
 DS-RPM-B
 DS-WP-A
 DS-WP-B

Data Sharing – Write Property Multiple – B	DS-WPM-B
Alarm and Event – Notification – B (Confirmed Only)	AE-N-I-B*
Alarm and Event – ACK – B	AE-ACK-B
Alarm and Event – Alarm Summary – B	AE-ASUM-B
Alarm and Event – Information – B	AE-INFO-B
Device Management – Dynamic Device Binding – A	DM-DDB-A
Device Management – Dynamic Device Binding – B	DM-DDB-B
Device Management – Dynamic Object Binding – B	DM-DOB-B
Device Management – Device Communication Control - B	DM-DCC-B
Device Management – Private Transfer A (Unconfirmed only)	DM-PT-A
Device Management – Private Transfer B (Unconfirmed only)	DM-PT-B
Device Management – UTCTime Synchronization – B	DM-UTC-B
Device Management – Time Synchronization – B	DM-TS-B
Device Management – Reinitialize Device - B	DM-RD-B
Device Management – Backup and Restore – B	DM-BR-B
Network Management – Connection Establishment – A	NM-CE-A

* The CX-UDC does not support the Property Event Time Stamps within the AI, AV, BI, and BV objects that is a requirement of intrinsic reporting and, therefore, does not fully support the functionality of the AE-N-I-B, BIBB.

Segmentation Capability

Segmentation Type	Supported	Window Size	Tested
Able to send segmented messages	No		
Able to receive segmented messages	No		

Standard Object Types Supported

Object Type	Optional Properties Supported	Writable Properties
Analog Input	Time Delay Notification Class High Limit Low Limit Dead band Limit Enable Event Enable Acked Transitions Notify Type	Out of Service
Analog Value	Time Delay Notification Class High Limit Low Limit Dead band Limit Enable Event Enable Acked Transitions Notify Type	Present Value Out of Service
Binary Input	Time Delay Notification Class Alarm Value Event Enable Acked Transitions	

Binary Value	Time Delay Notification Class Alarm Value Event Enable Acked Transitions Notify Type	Present Value Out of Service
Device	Local Time Local Date UTC Offset Day Light Saving Status Max Masters Max Info frames Configuration Files Last Restore Time Backup Failure Timeout	

Data Link Layer Options

Product	Data Link	Options	Tested
List of products that support this	BACnet/IP (Annex J)	Can act as a Direct BACnet/IP device. Can act as a Foreign BACnet/IP device.	
List of products that support this	Ethernet (ISO 8802-3)		
List of products that support this	ARCNET 2.5 Mb. (ANSI/ATA 878.1)		
List of products that support this	ANSI/ATA 878.1, RS-485 ARCNET	Baud rates supported	
CX-UDC	MS/TP Master (Clause 9)	9600, 19200, 38400.	
List of products that support this	MS/TP Slave	Baud rates supported	
List of products that support this	Point-To-Point (EIA 232)	Baud rates supported	
List of products that support this	Point-To-Point, modem	Baud rates supported	
List of products that support this	LonTalk	Media options	
List of products that support this	Other	Data Link and Media description	

Device Address Binding

Product	Static Binding Supported	Tested
CX-UDC	This product supports Static device binding.	

Networking Options

Product	Router Option	Options	Tested
List of products that support this	Router	List possible media. This line should be repeated for	

Product	Router Option	Options	Tested
		each hardware configuration supported	
List of products that support this	BACnet Tunnelling Router (Annex H)	IP, IPX	
List of products that support this	BBMD (Annex J)	Supports foreign device connections?	

Character Sets

Product	Character Sets supported	Tested
CX-IDC	ANSI X3.4	
List of products that support this	ISO 10646 (UCS-2)	
List of products that support this	IBM™/Microsoft™ DBCS	
List of products that support this	ISO 10646 (UCS-4)	
List of products that support this	ISO 8859-1	
List of products that support this	JIS C 6226	