

BACnet® Implementation Conformance Statement (PICS) for CS1-BAC-002 chipset used for X2 controller series



AEX2-BAC



TCX2-40863-OP-BAC

Last Revision:	January, 2026
Vendor Name:	Vector Controls GmbH
Product Name:	CS1-BAC-002
Product Model Number:	AEX-BAC, AEX2-BAC, TCX2-40863-BAC, TCX2-40863-OP-BAC, TCX2-24273-BAC, TCX2-24273-230-BAC, TCX2-23343-BAC, TCX2-14050-BAC, TCX2-14050-120-BAC, TCX2-28060-BAC, TCX2-28060-120-BAC, TCX2-00863-BAC, TCI2-204.202UC-BAC, TCI2-204.202UC-OP-BAC, TRI2-FC-TH-221.202C-BAC, TRI2-FA-TH-221.202C-BAC, TRI2-FU-TH-221.202C-BAC, TRI2-FA-T-221.202C-BAC, SCC2-CQ-210.102U-BAC-1, SCC2-P2-200.101U-BAC, SCC2-P3-200.101U-BAC, SCC2-P2-212.001U-BAC-D, SCC2-P2-212.001U-BAC, SCC2-P3-212.001U-BAC, SDC2-16-T-200.101U-BAC-1, SDC2-16-THQ-210.102U-BAC-1, SDC2-16-THCQ-210.102U-BAC-1, SDC2-16-TH-210.101U-BAC-1, SDC2-16-THC-210.102U-BAC-1, SOC2-TH-210.102U-BAC-1, SOC2-TH-210.102U-OP-BAC-1, SRD2-TH-411.103-BAC, SRD2-THC-411.103-BAC, SRD2-THC-411.103-OPIR-BAC, SRD2-THQ-411.103-OPIR-BAC, SRD2-THCQD-411.103-OPIR-BAC, SRD2-THCQD-411.103-BAC, SRD2-TH-411.103-OPIR-BAC, SRD2-TH-411.103-TOPIR-BAC, SRD2-THC-411.103-TOPIR-BAC, SRD2-THCQD-411.103-TOPIR-BAC, SRD2-TH-212.002U-TOP-BAC, SRD2-C-212.002U-TOP-BAC, SRD2-THP2-411.103-TOPIR-BAC, TCV2-P3-433.343-BAC
Application Software Version:	V14R0
BACnet Protocol Revision:	Revision 19 (135-2012)

X2 product description:

The X2 communicating BACnet® controllers are universal control devices suitable for a large number of applications. They may be used in zoning and other applications which are monitored by a BACnet® MS/TP network. They are programmed through parameters either on the unit or via a free download tool called EasySet.

The CS1-BAC-002 is a BTL listed BACnet® implementation running on the AEX(2)-BAC. The AEX(2)-BAC is the BACnet® communication plug-in for the X2- family of controllers.

BACnet® Standardized Device Profile (Annex L)

BACnet Application Specific Controller (B-ASC)

BACnet® Interoperability Building Blocks Supported (Annex K)

Type	Supported	Name	BIBB
Data sharing	☒	Read property - B	DS-RP-B
	☒	Read property multiple - B	DS-RPM-B
	☒	Write property - B	DS-WP-B
	☒	Change of value - B	DS-COV-B
Device management	☒	Device communication Control - B	DM-DCC-B
	☒	Dynamic device binding - B	DM-DDB-B
	☒	Dynamic object binding - B	DM-DOB-B
	☒	Time synchronisation - B	DM-TS-B
	☒	UTC Time synchronisation - B	DM-UTC-B
	☒	Reinitialize device - B	DM-RD-B

Supported standard BACnet® application services

Application Services	Supported
Read Property	☒
Read Property Multiple	☒
Write Property	☒
Device Communication Control ⁽¹⁾	☒
I-Am	☒
I-Have	☒
Time Synchronisation	☒
UTC Time Synchronisation	☒
Reinitialize Device ("cold" or "warm") ⁽¹⁾	☒

(1) password is "Vector" (case sensitive and without the quotes)

Segmentation Capability

able to transmit segmented messages:	No	Window Size:	N/A
able to receive segmented messages:	No	Window Size:	N/A

Standard Object Types Supported

Object Type	Supported	Created Dynamically	Deleted Dynamically
Analog input	☒	☐	☐
Analog value	☒	☐	☐
Binary value	☒	☐	☐
Device	☒	☐	☐
Multi-state Value	☒	☐	☐
Network port	☒	☐	☐

Analog Input Object

Property	Supported	R/W
Object Identifier	☒	R
Object Name	☒	R
Description	☒	R/W
Present Value	☒	R
Status Flags	☒	R
Event State	☒	R
Reliability	☒	R
Out Of Service	☒	R/W
Units	☒	R
COV increment	☒	R/W

Analog Value Object

Property	Supported	R/W
Object Identifier	☒	R
Object Name	☒	R
Description	☒	R/W
Present Value	☒	R/W ⁽¹⁾
Status Flags	☒	R
Event State	☒	R
Out Of Service	☒	R/W
Units	☒	R
COV increment	☒	R/W

(1) Only writable for specific objects

Binary Value Object

Property	Supported	R/W
Object Identifier	☒	R
Object Name	☒	R
Description	☒	R/W
Present Value	☒	R/W ⁽¹⁾
Status Flags	☒	R
Event State	☒	R
Out Of Service	☒	R/W
Active Text	☒	R
Inactive Text	☒	R

(1) Only writable for specific objects

Device Object

Property	Supported	R/W
APDU Timeout	☒	R
App Software Version	☒	R
Database Revision	☒	R
Daylight Savings Status	☒	R/W
Description	☒	R/W
Device Address Binding	☒	R
Firmware Revision	☒	R
Local Date	☒	R
Local Time	☒	R
Max APDU Length Accepted	☒	R
Model Name	☒	R
Number of APDU Retries	☒	R
Object Identifier	☒	R/W
Object Name	☒	R/W
Object Type	☒	R
Protocol Object Types Supported	☒	R
Protocol Services Supported	☒	R
Protocol Version	☒	R
Protocol Revision	☒	R
Segmentation Supported	☒	R
System Status	☒	R
UTC Offset	☒	R/W
Vendor Identifier	☒	R
Vendor Name	☒	R
Object List	☒	R

Multi State Value Object

Property	Supported	R/W
Object Identifier	☒	R
Object Name	☒	R
Description	☒	R/W
Present Value	☒	R/W ⁽¹⁾
Status Flags	☒	R
Event State	☒	R
Out Of Service	☒	R
Number Of States	☒	R
State Text	☒	R

(1) Only writable for specific objects

Network Port Object

Property	Supported	R/W
Object Identifier	☒	R
Object Name	☒	R
Status Flags	☒	R
Out Of Service	☒	R
Apdu Length	☒	R
Changes Pending	☒	R
Link Speed	☒	R/W
Mac Address	☒	R
Max Info Frames	☒	R
Max Master	☒	R
Network Number	☒	R
Network Number Quality	☒	R
Network Type	☒	R
Protocol Level	☒	R
Reliability	☒	R

Data Link Layer Options:

Link Layer	Supported
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, EIA-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 necessary for two-way communication with MS/TP slaves and certain other devices.)	☐ Yes ☒ No
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Networking Options:

Router, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.	N/A
Annex H, BACnet Tunneling Router over IP	N/A
BACnet/IP Broadcast Management Device (BBMD)	N/A
Does the BBMD support registrations by Foreign Devices?	N/A

Character Sets Supported:

- | | | |
|--|---|-------------------------------------|
| ☒ ISO 10646 (UTF8) | ☐ IBM/Microsoft DBCS | ☐ JIS C 6226 |
| ☐ ISO 10646 (ICS-2) | ☐ ISO 10646 (ICS-4) | ☐ ISO 8859-1 |