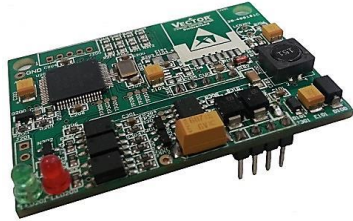




**BACnet® Implementation Conformance Statement (PICS)  
 for CS1-BAC-001 chipset used for AEX-BAC and TCX2-Series**



AEX-BAC



TCX2-40863-OP-BAC

<b>Last Revision:</b>	June 29, 2018
<b>Vendor Name:</b>	Vector Controls GmbH
<b>Product Name:</b>	CS1-BAC-001
<b>Product Model Number:</b>	AEX-BAC, AEX2-BAC, TCX2-40863-BAC, TCX2-23343-BAC, TCX2-24273-BAC, TCX2-14050-BAC, TCI2-204.202-BAC, TCI2-204.022-BAC, SDC2-200.101-BAC, SOC2-200.101-BAC, SCC2-200.101-BAC, SDC2-201.102,-BAC SOC2-201.102-BAC, SCC-201.102-BAC, TRI2-221.202
<b>Application Software Version:</b>	V1.2 R4
<b>Product Version (CS1-BAC-001):</b>	V1.2 R15
<b>BACnet Protocol Revision:</b>	Revision 14 (135-2012)

**TCX2 product description:**

The TCX2 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-001 is a BTL listed BACnet® implementation running on the AEX-BAC. The AEX-BAC is the BACnet® communication plug-in for the TCX2- family of controllers.

**BACnet® Standardized Device Profile (Annex L)**

BACnet Application Specific Controller (B-ASC)

### BACnet® Interoperability Blocks Supported (Annex K)

Type	Supported	Name	BIBB
Data sharing	<input checked="" type="checkbox"/>	Read property - B	DS-RP-B
	<input checked="" type="checkbox"/>	Read property multiple - B	DS-RPM-B
	<input checked="" type="checkbox"/>	Write property - B	DS-WP-B
Device management	<input checked="" type="checkbox"/>	Device communication Control - B	DM-DCC-B
	<input checked="" type="checkbox"/>	Dynamic device binding - B	DM-DDB-B
	<input checked="" type="checkbox"/>	Dynamic object binding - B	DM-DOB-B
	<input checked="" type="checkbox"/>	Time synchronisation - B	DM-TS-B
	<input checked="" type="checkbox"/>	UTC Time synchronisation - B	DM-UTC-B
	<input checked="" type="checkbox"/>	Reinitialize device - B	DM-RD-B

### Supported standard BACnet® application services

Application Services	Supported
ReadProperty	<input checked="" type="checkbox"/>
ReadPropertyMultiple	<input checked="" type="checkbox"/>
WriteProperty	<input checked="" type="checkbox"/>
DeviceCommunicationControl <sup>(1)</sup>	<input checked="" type="checkbox"/>
I-Am	<input checked="" type="checkbox"/>
I-Have	<input checked="" type="checkbox"/>
TimeSynchronisation	<input checked="" type="checkbox"/>
UTCTimeSynchronisation	<input checked="" type="checkbox"/>
ReinitializeDevice ("cold" or "warm") <sup>(1)</sup>	<input checked="" type="checkbox"/>

(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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analog value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Binary value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Device	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Multi-state Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Analog Input Object

Property	Supported	R/W
Object_Identifier	<input checked="" type="checkbox"/>	R
Object_Name	<input checked="" type="checkbox"/>	R
Description	<input checked="" type="checkbox"/>	R/W
Preset_Value	<input checked="" type="checkbox"/>	R
Status_Flags	<input checked="" type="checkbox"/>	R
Event_State	<input checked="" type="checkbox"/>	R
Reliability	<input checked="" type="checkbox"/>	R
Out_Of_Service	<input checked="" type="checkbox"/>	R
Units	<input checked="" type="checkbox"/>	R

### Analog Value Object

Property	Supported	R/W
Object_Identifier	<input checked="" type="checkbox"/>	R
Object_Name	<input checked="" type="checkbox"/>	R
Description	<input checked="" type="checkbox"/>	R/W <sup>(1)</sup>
Preset_Value	<input checked="" type="checkbox"/>	R/W <sup>(1)</sup>
Status_Flags	<input checked="" type="checkbox"/>	R
Event_State	<input checked="" type="checkbox"/>	R
Out_Of_Service	<input checked="" type="checkbox"/>	R
Units	<input checked="" type="checkbox"/>	R

(1) Writable for objects with instance number greater than 11.

### Binary Value Object

Property	Supported	R/W
Object_Identifier	<input checked="" type="checkbox"/>	R
Object_Name	<input checked="" type="checkbox"/>	R
Description	<input checked="" type="checkbox"/>	R/W <sup>(2)</sup>
Preset_Value	<input checked="" type="checkbox"/>	R/W
Status_Flags	<input checked="" type="checkbox"/>	R
Event_State	<input checked="" type="checkbox"/>	R
Out_Of_Service	<input checked="" type="checkbox"/>	R

(2) Writable for objects with instance number greater than 100.

**Device Object**

Property	Supported	R/W
APDU_Timeout	<input checked="" type="checkbox"/>	R
App Software Version	<input checked="" type="checkbox"/>	R
Database_Revision	<input checked="" type="checkbox"/>	R
Daylight_Savings_Status	<input checked="" type="checkbox"/>	R
Description	<input checked="" type="checkbox"/>	R/W
Device Address Binding	<input checked="" type="checkbox"/>	R
Firmware_Revision	<input checked="" type="checkbox"/>	R
Local_Date	<input checked="" type="checkbox"/>	R
Local_Time	<input checked="" type="checkbox"/>	R
Max APDU Length Accepted	<input checked="" type="checkbox"/>	R
Max Info Frames	<input checked="" type="checkbox"/>	R/W
Max_Master	<input checked="" type="checkbox"/>	R/W
Model_Name	<input checked="" type="checkbox"/>	R
Number_of_APDU_Retries	<input checked="" type="checkbox"/>	R
Object_Identifier	<input checked="" type="checkbox"/>	R/W
Object_Name	<input checked="" type="checkbox"/>	R/W
Object_Type	<input checked="" type="checkbox"/>	R
Protocol_Objects_Supported	<input checked="" type="checkbox"/>	R
Protocol_Services_Supported	<input checked="" type="checkbox"/>	R
Protocol_Version	<input checked="" type="checkbox"/>	R
Protocol_Revision	<input checked="" type="checkbox"/>	R
Segmentation_Supported	<input checked="" type="checkbox"/>	R
System_Status	<input checked="" type="checkbox"/>	R
UTC_Offset	<input checked="" type="checkbox"/>	R/W
Vendor_Identifier	<input checked="" type="checkbox"/>	R
Vendor_Name	<input checked="" type="checkbox"/>	R
Object_List	<input checked="" type="checkbox"/>	R

**Multi State Value Object**

Property	Supported	R/W
Object_Identifier	<input checked="" type="checkbox"/>	R
Object_Name	<input checked="" type="checkbox"/>	R
Description	<input checked="" type="checkbox"/>	R/W <sup>(1)</sup>
Preset_Value	<input checked="" type="checkbox"/>	R/W
Status_Flags	<input checked="" type="checkbox"/>	R
Event_State	<input checked="" type="checkbox"/>	R
Out_Of_Service	<input checked="" type="checkbox"/>	R
Number_Of_States	<input checked="" type="checkbox"/>	R
State_Text	<input checked="" type="checkbox"/>	R

(1) Writable for objects with instance number greater than 100.

**Data Link Layer Options:**

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

**Device Address Binding:**

Is static device binding supported? (This is currently necessary for two-way communication with MS/TP slaves and certain other devices.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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:**

- |  |   |                                     |
|--|---|-------------------------------------|
| <input checked="" type="checkbox"/> ISO 10646 (UTF8) | <input type="checkbox"/> IBM/Microsoft DBCS | <input type="checkbox"/> JIS C 6226 |
| <input type="checkbox"/> ISO 10646 (ICS-2)           | <input type="checkbox"/> ISO 10646 (ICS-4)  | <input type="checkbox"/> ISO 8859-1 |