



BACnet Protocol Implementation Conformance Statement

Products

Product	Model Number	Protocol Revision	Software Version	Firmware Version
SCADA Engine BACnet Server API	SE-BSDKDB-WIN SE-BSDKDB-LIN	135-2016 (18)	5.1.0	5.1.0

Date Tested: 2 March 2010

Vendor Information

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Product Description

The SCADA Engine BACnet Server API is a software toolset which can be used to build a BACnet Server or BACnet Operator Workstation.
The SE-BSDKDB-WIN supports Windows XP or later running x86 or x64 operating systems.
The SE-BSDKDB-LIN supports x86 or x64 operating systems.

BACnet Standardized Device Profile

Product	Device Profile	Tested
SE-BSDKDB-WIN	BACnet Application Specific Controller (B-ASC) BACnet Operator Workstation (B-OWS)	
SE-BSDKDB-LIN	BACnet Application Specific Controller (B-ASC) BACnet Operator Workstation (B-OWS)	



Supported BIBBs

Product	Supported BIBBs	BIBB Name	
SE-BSDKDB-WIN SE-BSDKDB-LIN	DS-RP-A	Data Sharing-ReadProperty-A	
	DS-RP-B	Data Sharing-ReadProperty-B	
	DS-RPM-A	Data Sharing-ReadPropertyMultiple-A	
	DS-RPM-B	Data Sharing-ReadPropertyMultiple-B	
	DS-WP-A	Data Sharing-WriteProperty-A	
	DS-WP-B	Data Sharing-WriteProperty-B	
	DS-WPM-A	Data Sharing-WritePropertyMultiple-A	
	DS-WPM-B	Data Sharing-WritePropertyMultiple-B	
	DS-COV-A	Data Sharing-COV-A	
	DS-COV-B	Data Sharing-COV-B	
	DS-COVP-A	Data Sharing-COVP-A	
	DS-COVP-B	Data Sharing-COVP-B	
	DS-COVU-A	Data Sharing-COV-Unsolicited-A	
	DS-COVU-B	Data Sharing-COV-Unsolicited-B	
	SCHED-A	Scheduling-A	
	SCHED-I-B	Scheduling-Internal-B	
	SCHED-E-B	Scheduling-External-A	
	T-VMT-A	Trending-Viewing and Modifying Trends-A	
	T-VMT-I-B	Trending-Viewing and Modifying Trends-Internal-B	
	T-VMT-E-B	Trending-Viewing and Modifying Trends-External-B	
	T-ATR-A	Trending-Automated Trend Retrieval-A	
	T-ATR-B	Trending-Automated Trend Retrieval-B	
	NM-CE-A	Network Management-Connection Establishment-A	
	NM-CE-B	Network Management-Connection Establishment-B	
	AE-N-A	Alarm and Event-Notification-A	
	AE-N-I-B	Alarm and Event-Notification Internal-B	
	AE-N-E-B	Alarm and Event-Notification External-B	
	AE-ACK-A	Alarm and Event-ACK-A	
	AE-ACK-B	Alarm and Event-ACK-B	
	AE-ASUM-A	Alarm and Event-Alarm Summary-A	
	AE-ASUM-B	Alarm and Event-Alarm Summary-B	
	AE-ESUM-A	Alarm and Event-Enrollment Summary-A	
	AE-ESUM-B	Alarm and Event-Enrollment Summary-B	
	AE-INFO-A	Alarm and Event-Information-A	
AE-INFO-B	Alarm and Event-Information-B		
AE-LS-A	Alarm and Event-LifeSafety-A		
AE-LS-B	Alarm and Event-LifeSafety-B		



Product	Supported BIBBs	BIBB Name	
	DM-RD-A	Device Management-ReinitializeDevice-A	
	DM-RD-B	Device Management-ReinitializeDevice-B	
	DM-DDB-A	Device Management-Dynamic Device Binding-A	
	DM-DDB-B	Device Management-Dynamic Device Binding-B	
	DM-DOB-A	Device Management-Dynamic Object Binding-A	
	DM-DOB-B	Device Management-Dynamic Object Binding-B	
	DM-DCC-A	Device Management-DeviceCommunicationControl-A	
	DM-DCC-B	Device Management-DeviceCommunicationControl-B	
	DM-PT-A	Device Management-Private Transfer-A	
	DM-PT-B	Device Management-Private Transfer-B	
	DM-TM-A	Device Management-Text Message-A	
	DM-TM-B	Device Management-Text Message-B	
	DM-TS-A	Device Management-TimeSynchronization-A	
	DM-TS-B	Device Management-TimeSynchronization-B	
	DM-UTC-A	Device Management-UTCTimeSynchronization-A	
	DM-UTC-B	Device Management-UTCTimeSynchronization-B	
	DM-LM-A	Device Management-List Manipulation-A	
	DM-LM-B	Device Management-List Manipulation-B	
	DM-OCD-A	Device Management-Object Creation and Deletion-A	
	DM-OCD-B	Device Management- Object Creation and Deletion -B	



Standard Object Types Supported

Product	Object Type	Creatable	Deletable	Tested
	Averaging	Yes	Yes	
SE-BSDKDB-WIN SE-BSDKDB-LIN	Analog Input	Yes	Yes	
	Analog Output	Yes	Yes	
	Analog Value	Yes	Yes	
	Binary Input	Yes	Yes	
	Binary Output	Yes	Yes	
	Binary Value	Yes	Yes	
	Calendar	Yes	Yes	
	Command	Yes	Yes	
	Device	No	No	
	Event Enrollment	Yes	Yes	
	EventLog	Yes	Yes	
	File	Yes	Yes	
	Group	Yes	Yes	
	Loop	Yes	Yes	
	Multi-state Input	Yes	Yes	
	Multi-state Output	Yes	Yes	
	Multi-state Value	Yes	Yes	
	Notification Class	Yes	Yes	
	Program	Yes	Yes	
	Schedule	Yes	Yes	
	Trend Log	Yes	Yes	
	LifeSafetyPoint	Yes	Yes	
	LifeSafetyZone	Yes	Yes	
	Accumulator	Yes	Yes	
	PulseConverter	Yes	Yes	
	TrendLogMultiple	Yes	Yes	
	LoadControl	Yes	Yes	
StructuredView	Yes	Yes		
AccessDoor	Yes	Yes		
Network Port	No	Yes		



Data Link Layer Options

Product	Data Link	Options	Tested
SE-BSKDB-WIN SE-BSKDB-LIN	BACnet/IP (Annex J)	Can communicate as a Direct BACnet/IP device. Can register as a Foreign BACnet/IP device.	
	Ethernet (ISO 8802-3)		
	MS/TP Master	9600, 19200, 38400, 76800	
	PTP		

Segmentation Capability

Product	Segmentation Type	Supported	Window Size (MS/TP product limited to 1)	Tested
SE-BSKDB-WIN SE-BSKDB-LIN	Able to transmit segmented messages	Yes	Configurable	
	Able to receive segmented messages	Yes	Configurable	

Device Address Binding

Product	Static Binding Supported	Tested
SE-BSKDB-WIN SE-BSKDB-LIN	Yes	

Networking Options

Product	Router Option	Options	Tested
SE-BSKDB-WIN SE-BSKDB-LIN	Router	Multiple BACnet/IP, Multiple Ethernet, Multiple MS/TP Multiple PTP	

Character Sets

Product	Character Sets supported	
SE-BSKDB-WIN SE-BSKDB-LIN	ISO 10646 (UTF 8)	
	IBM Microsoft DBCS	
	ISO 10646 (UCS-2)	
	ISO 8859-1	