SunFull BACnet Gateway

BACnet Protocol Implementation Conformance Statement

19-Sep-2018

Date:	September 19, 2018
Vendor Name:	Shanghai Sunfull Automation Co., LTD
Product Name:	SunFull BACnet Gateway
Product Model Number:	BAC2004-ARM,BAC2004-Lite,BAC2004-A9,BAC1002-ARM, BAC1002-Lite,HMI2004-A9,HMI1002-ARM,HMI2001-PI, W7-1041,W10-1041,W15-1041
Application Software Version:	1
Firmware Revision:	2.0.4
BACnet Protocol Revision:	12

Product Description:

Sunfull BACnet Gateway can convert all kinds of protocols into BACnet IP protocol and solve the problem that some large BA Company can't connect any uncommon devices. So users can read/write point informations from different device by BA system.

BACnet Standardized Device Profile (Annex L):

☐ BACnet Advanced 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 Gateway (B-GW)

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

Data Sharing	DS-RP-B	Data Sharing-ReadProperty-B
	DS-RPM-B	Data Sharing-ReadPropertyMultiple-B
	DS-WP-B	Data Sharing-WriteProperty-B
	DS-WPM-B	Data Sharing-WritePropertyMultiple-B
Device Management	DM-DDB-B	Device Management-Dynamic Device Binding-B
	DM-DOB-B	Device Management-Dynamic Object Binding-B
Gateway	GW-EO-B	Gateway-Embedded Objects-B

Segmentation Capability:

☐ Able to transmit segmented messages　　Window Size _____
☐ Able to receive segmented messages Window Size _____

Standard Object Types Supported:

The following objects are currently supported by this product. The following data is the supported object type for details.

- The CreateObject and DeleteObject services are not supported, so no objects are dynamically creatable or deletable through BACnet service requests, although these objects are dynamically creatable and deletable through configure software.
- No general range restrictions exist.
- All available properties are listed for each object type.
- Writable properties are marked with W; Read only properties are marked with R.

Object-Type	Supported	Readable/ Writable
AnalogInput	object-name	R
	object-type	R
	present-value	R
	description	R
	status-flags	R
	event-state	R
	out-of-service	R
	units	R
AnalogOutput	object-name	R
	object-type	R
	present-value	W
	out-of-service	R
	priority-array	R
	description	R
	status-flags	R
	event-state	R
	units	W
	relinquish-default	W
AnalogValue	object-name	R
	object-type	R
	present-value	W
	description	R
	status-flags	R
	event-state	R

	out-of-service	R
	units	W
	priority-array	R
	relinquish-default	W
BinaryInput	object-name	R
	object-type	R
	present-value	R
	out-of-service	R
	description	R
	status-flags	R
	event-state	R
	inactive-text	R
	active-text	R
BinaryOutput	object-name	R
	object-type	R
	present-value	W
	event-state	R
	out-of-service	R
	description	R
	status-flags	R
	priority-array	R
	relinquish-default	R
	inactive-text	W
	active-text	W
BinaryValue	object-name	R
	object-type	R
	present-value	W
	description	R
	event-state	R
	out-of-service	R
	priority-array	R
	relinquish-default	R
	status-flags	R
	inactive-text	W
	active-text	W
Multi-stateInput	object-name	R
	object-type	R
	present-value	R
	event-state	R
	out-of-service	R
	description	R
	status-flags	R

	number-of-states	R
	state-text	R
Multi-stateOutput	object-name	R
	object-type	R
	present-value	W
	description	R
	event-state	R
	out-of-service	R
	priority-array	R
	relinquish-default	W
	status-flags	R
	number-of-states	R
	state-text	W
Multi-stateValue	object-name	R
	object-type	R
	present-value	W
	description	R
	event-state	R
	out-of-service	R
	priority-array	R
	relinquish-default	W
	status-flags	R
	number-of-states	R
	state-text	W
Device	object-name	R
	object-type	R
	system-status	R
	vendor-name	R
	vendor-identifier	R
	model-name	R
	firmware-revision	R
	application-software-version	R
	location	R
	description	R
	protocol-version	R
	protocol-revision	R
	protocol-services-supported	R
	protocol-object-types-supported	R
	object-list	R
	max-apdu-length-accepted	R
	local-time	R
	local-date	R

utc-offset	R
daylight-savings-status	R
apdu-timeout	R
number-of-apdu-retries	R

Data Link Layer Options:

☒ 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): _____
☐ 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

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
    Does the BBMD support network address translation? ☐ Yes   ☐ No

Network Security Options:

☐ Non-secure Device - is capable of operating without BACnet Network Security
☐ Secure Device - is capable of using BACnet Network Security (NS-SD BIBB)

☐ Multiple Application-Specific Keys:

☐ Supports encryption (NS-ED BIBB)

☐ Key Server (NS-KS BIBB)

Character Sets Supported:

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

☒ ISO 10646 (UTF-8)   ☐ IBM™/Microsoft™ DBCS   ☐ ISO 8859-1
☐ ISO 10646 (UCS-2)   ☐ ISO 10646 (UCS-4)   ☐ JIS X 0208

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

Sunfull BACnet Gateway can convert all kinds of protocols into BACnet IP protocol.