BACnet Protocol Implementation Conformance Statement
(BACnet Testing Laboratories Version)

Date: July 29, 2013
Vendor Name: Samsung SDS
Product Name: SDC-100
Product Model Number: SDC-100-X
Applications Software Version: N/A **Firmware Revision:** V1.0.3
BACnet Protocol Revision: Revision 7 (135-2008)

Product Description:
The SDC Controller is a BACnet Advanced Application Controller(B-AAC) for building management system and provides programmable functionality optimized for building automation and control.
In addition to its control capability, the SDC controller supports a full set of building automation features and functions for buildings and IT infrastructures.

List all BACnet Interoperability Building Blocks supported (see Annex L in BACnet 2008):

DS-RP-A
DS-RP-B
DS-RPM-B
DS-WP-A
DS-WP-B
DS-WPM-B
AE-N-I-B
AE-ACK-B
AE-INFO-B
SCHED-I-B
DM-DDB-A
DM-DDB-B
DM-DOB-B
DM-DCC-B
DM-TS-B
DM-RD-B

Which of the following device binding methods does the product support? (check one or more)

- ☑ Send Who-Is, receive I-Am (BIBB DM-DDB-A)
- ☑ Receive Who-Is, send I-Am (BIBB DM-DDB-B)
- ☐ Send Who-Has, receive I-Have (BIBB DM-DOB-A)
- ☐ Receive Who-Has, send I-Have (BIBB DM-DOB-B)
- ☐ Manual configuration of recipient device's network number and MAC address
- ☐ None of the above

Standard Object Types Supported:

Object-Type	Supp	Dynamically Creatable	Dynamically Deletable	Optional Properties Supported	Writable Properties
Analog Input	Yes	Yes	Yes	Description, Min Pres Value, Max Pres Value, Time Delay, Notification Class, High Limit, Low Limit, Deadband, Limit Enable, Event Enable, Acked Transitions, Notify Type, Event Time Stamps, Reliability	Object Name, Description, Present Value(conditional), Out of Service, Units, Min Pres Value, Max Pres Value, Time Delay, Notification Class, High Limit, Low Limit, Deadband, Limit Enable, Event Enable, Notify Type
Analog Output	Yes	Yes	Yes	Description, Min Pres Value, Max Pres Value, Time Delay, Notification Class, High Limit, Low Limit, Deadband, Limit Enable, Event Enable, Acked Transitions, Notify Type, Event Time Stamps, Reliability	Object Name, Description, Present Value, Out of Service, Units, Relinquish Default, Min Pres Value, Max Pres Value, Time Delay, Notification Class, High Limit, Low Limit, Deadband, Limit Enable, Event Enable, Notify Type
Analog Value	Yes	Yes	Yes	Description, Time Delay, Notification Class, High Limit, Low Limit, Deadband, Limit Enable, Event Enable, Acked Transitions, Notify Type, Event Time Stamps	Object Name, Description, Present Value, Out of Service, Units, Relinquish Default, Time Delay, Notification Class, High Limit, Low Limit, Deadband, Limit Enable, Event Enable, Notify Type
Binary Input	Yes	Yes	Yes	Description, Inactive Text, Active Text, Change Of State Time, Change Of State Count, Time Of State Count Reset, Elapsed Active Time, Time Of Active Time Reset, Time Delay, Notification Class, Alarm Value, Event Enable, Acked Transitions, Notify Type, Event Time Stamps, Reliability	Object Name, Description, Present Value(conditional), Out of Service, Polarity, Inactive Text, Active Text, Change Of State Count, Elapsed Active Time, Time Delay, Notification Class, Alarm Value, Event Enable, Notify Type
Binary Output	Yes	Yes	Yes	Description, Inactive Text, Active Text, Change Of State Time, Change Of State Count, Time Of State Count Reset, Elapsed Active Time, Time Of Active Time Reset, Time Delay, Notification Class, Feedback Value, Event Enable, Acked Transitions, Notify Type, Event Time Stamps, Reliability	Object Name, Description, Present Value, Out of Service, Polarity, Inactive Text, Active Text, Change Of State Count, Elapsed Active Time, Relinquish Default, Time Delay, Notification Class, Event Enable, Notify Type
Binary Value	Yes	Yes	Yes	Description, Inactive Text, Active Text, Change Of State Time, Change Of State Count, Time Of State Count Reset, Elapsed Active Time, Time Of Active Time Reset, Priority Array, Relinquish Default, Time Delay, Notification Class, Alarm Value, Event Enable, Acked Transitions, Notify Type, Event Time Stamps	Object Name, Description, Present Value, Out of Service, Inactive Text, Active Text, Change Of State Count, Elapsed Active Time, Relinquish Default, Time Delay, Notification Class, Alarm Value, Event Enable, Notify Type
Calendar	Yes	Yes	Yes	Description	Object Name, Description, Date List
Device	Yes	N/A	N/A	Description, Max Master, Max Info Frames, Local Time, Local Date	Object Name, Description, Max Master, APDU Timeout, Number of APDU Retires,
Multi-state Value	Yes	Yes	Yes	Description, Reliability, State Text, Priority Array, Relinquish Default, Time Delay, Notification Class, Alarm Values, Fault Values, Event Enable, Acked Transitions, Notify Type, Event Time Stamps	Object Name, Description, Present Value, Out Of Service, Relinquish Default, Time Delay, Notification Class, Alarm Values, Fault Values, Event Enable, Notify Type
Notificati	Yes	Yes	Yes	Description	Object Name, Description, Priority,

on Class					Ack Required, Recipient List
Schedule	Yes	Yes	Yes	Description, Weekly Schedule, Exception Schedule	Object Name, Description, Present Value(conditional), Effective Period, Weekly Schedule, Exception Schedule, Schedule Default, List of Object Property Reference, Priority for Writing, Out of Service

Range Restrictions:

Object-Type	Property	Range Restriction
Analog Input, Analog Output	Min Pres Value, Max Pres Value	Max Pres Value >= Min Pres Value
Analog Input, Analog Output, Analog Value	Low Limit, High Limit	High Limit >= Low Limit
Binary Input, Binary Output, Binary Value	Change Of State Count, Elapsed Active Time	Accepts writes of value of zero only
Device	APDU Timeout, Number Of APDU Retries, Max Master Description, Object Name	1000 <= APDU Timeout <= 10000 1 <= Number Of APDU Retries <= 5 1 <= Max Master <= 127 Length string <= 47
Analog Output	Present Value	Min Pres Value <= Present Value <= Max Pres Value
Multi State Value	Present Value	1 <= Present Value <= Number Of State

Data Link Layer Options (check all that are supported):

- ☐ BACnet IP, (Annex J)
  - ☐ Able to register as a Foreign Device
- ☐ ISO 8802-3, Ethernet (Clause 7)
- ☐ ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ☐ ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s) _____
- ☑ MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 76800
- ☐ 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: _____
- ☐ Other: _____

Networking Options (check all that are supported):

- ☐ Router, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.:
  _____
- ☐ Annex H.3, BACnet Tunneling Router over UDP/IP
- ☐ BACnet/IP Broadcast Management Device (BBMD)
  Does the BBMD support registrations by Foreign Devices? ☐ Yes ☐ No
- ☐ MS/TP Slave Proxy

Segmentation Capability (check all that apply):

☐ Able to transmit segmented messages	Window Size 1
☐ Able to receive segmented messages	Window Size 1

Character Sets Supported (check all that apply):

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

☑ ANSI X3.4	☐ IBM™/Microsoft™ DBCS	☐ ISO 8859-1
☐ ISO 10646 (UCS-2)	☐ ISO 10646 (ICS-4)	☐ JIS C 6226

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

_____
_____
_____

Include any addition information about the product's BACnet capabilities relevant to interoperability:

_____
_____
_____
_____
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