

BACnet Protocol Implementation Conformance Statement (BACnet Testing Laboratories Version)

Date: May 17, 2008

Vendor Name: Samsung SDS

Product Name: Network Controller NC-100

Product Model Number: NC-100

Applications Software Version: 1.5 **Firmware Revision:** 1.5

BACnet Protocol Revision: Revision 4 (135-2004)

Product Description:

The NC-100 is a network controller for building management system and provides programmable functionality optimized for building automation and control. The NC-100 supports a comprehensive set of features and functions for buildings with large scale and technically advanced IT infrastructures.

List all BACnet Interoperability Building Blocks supported (see Annex K in BACnet 2004):

DS-RP-A,

DS-RP-B,

DS-RPM-A,

DS-RPM-B,

DS-WP-A,

DS-WP-B,

DS-WPM-B,

DS-COV-B,

AE-N-I-B,

AE-ACK-B,

AE-ASUM-B,

AE-ESUM-B,

AE-INFO-B,

SCHEDE-I-B

SCHEDE-E-B,

T-VMT-I-B,

T-VMT-E-B,

T-ATR-B,

DM-DDB-A,

DM-DDB-B,

DM-DOB-A,

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 Value	Yes	Yes	Yes	Description, COV Increment, 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, COV Increment, Time Delay, Notification Class, High Limit, Low Limit, Deadband, Limit Enable, 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, Min Off Time, Min On Time, 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, Min Off Time, Min On Time, Relinquish Default, Time Delay, Notification Class, Event Enable, Notify Type, Event Time Stamps
Calendar	Yes	Yes	Yes	Description, Date List	Object Name, Description, Date List
Command	Yes	Yes	Yes	Action Text	Object Name, Description, Present Value, Action, Action Text
Device	Yes	N/A	N/A	Description, Max Seg Accepted, Local Time, Local Date, APDU Seg Timeout, Max Master, Max Info Frames, Active COV Subscription	Object Name, Description, Local Time, Local Date, APDU Segment Timeout, APDU Timeout, Number of APDU Retires, Max Master, Max Info Frames
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, Number Of States, State Text, Relinquish Default, Time Delay, Notification Class, Alarm Values, Fault Values, Event Enable, Notify Type
Notification Class	Yes	Yes	Yes	Description	Object Name, Description, Priority, 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
All Object Types	Time Delay, Min On Time, Min Off Time	Less than 3600
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

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: FTT-10(Twisted Pair)
- Other: _____

Networking Options (check all that are supported):

- Router, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.:
IP-MS/TP, IP-LonTalk
- 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:
