

BACnet Protocol Implementation Conformance Statement**Date:** 10/05/2023**Vendor Name:** S4 Integration Solutions**Product Name:** BACnet Ecobee Integration**Product Model Number:** N/A**Application Software Version:** BACnet 2016 Protocol Revision: 19**Product Description:**

The BACnet Ecobee Integration acts as a gateway between Ecobee SmartBuildings systems and BACnet applications or devices. The function of the product is to enable Ecobee WiFi thermostats to participate in BACnet open system ecosystems, allowing them to become part of the best in breed building automation, asset management, continuous commissioning, analytics, energy monitoring and control, and other value added solutions.

The building thermostats must be subscribed to the Ecobee SmartBuildings service and account credentials must be provided to the installer. The S4 BACnet Ecobee Integration Auto Discovers and Auto Configures all buildings and Ecobee thermostats defined in an Ecobee SmartBuildings account.

The S4 Open: BACnet Ecobee Gateway integrates into the Ecobee SmartBuildings cloud service supporting local Ecobee WiFi thermostats and presents each thermostat locally as a BACnet IP device.

Product brochures, white papers, and Quick Start Guides provide more details at <http://www.s4integrationsolutions.com>.

BACnet Standardized Device Profile (Annex L):

- BACnet Operator Workstation (B-OWS)
- BACnet Advanced Operator Workstation (B-AWS)
- 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 Smart Actuator (B-SA)
- BACnet Gateway (B-GW)

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

BACnet Interoperability Building Block Supported Data Sharing	Reference	Initiate	Execute
ReadProperty-A (DS-RP-A)	K.1.1	<input type="checkbox"/>	<input type="checkbox"/>
ReadProperty-B (DS-RP-B)	K.1.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ReadPropertyMultiple-A (DS-RPM-A)	K.1.3	<input type="checkbox"/>	<input type="checkbox"/>
ReadPropertyMultiple-B (DS-RPM-B)	K.1.4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
WriteProperty-A (DS-WP-A)	K.1.7	<input type="checkbox"/>	<input type="checkbox"/>
WriteProperty-B (DS-WP-B)	K.1.8	<input type="checkbox"/>	<input checked="" type="checkbox"/>
WritePropertyMultiple-A (DS-WPM-A)	K.1.9	<input type="checkbox"/>	<input type="checkbox"/>
WritePropertyMultiple-B (DS-WPM-B)	K.1.10	<input type="checkbox"/>	<input type="checkbox"/>
COV-A (DS-COV-A)	K.1.11		
SubscribeCOV		<input type="checkbox"/>	<input type="checkbox"/>
ConfirmedCOVNotification		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedCOVNotification		<input type="checkbox"/>	<input type="checkbox"/>
COV-B (DS-COV-B)	K.1.12		
SubscribeCOV		<input type="checkbox"/>	<input type="checkbox"/>
ConfirmedCOVNotification		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedCOVNotification		<input type="checkbox"/>	<input type="checkbox"/>
COVP-A (DS-COVP-A)	K.1.13		
SubscribeCOV		<input type="checkbox"/>	<input type="checkbox"/>
ConfirmedCOVNotification		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedCOVNotification		<input type="checkbox"/>	<input type="checkbox"/>
COVP-B (DS-COVP-B)	K.1.14		
SubscribeCOV		<input type="checkbox"/>	<input type="checkbox"/>
ConfirmedCOVNotification		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedCOVNotification		<input type="checkbox"/>	<input type="checkbox"/>
COV-Unsubscribed-A (DS-COVU-A)	K.1.15	<input type="checkbox"/>	<input type="checkbox"/>
COV-Unsubscribed-B (DS-COVU-B)	K.1.16	<input type="checkbox"/>	<input type="checkbox"/>
View-A (DS-V-A)	K.1.17	<input type="checkbox"/>	<input type="checkbox"/>
Advanced View-A (DS-AV-A)	K.1.18	<input type="checkbox"/>	<input type="checkbox"/>
Modify-A (DS-M-A)	K.1.19	<input type="checkbox"/>	<input type="checkbox"/>
Advanced Modify-A (DS-AM-A)	K.1.20	<input type="checkbox"/>	<input type="checkbox"/>
WriteGroup-A (DS-WG-A)	K.1.21	<input type="checkbox"/>	<input type="checkbox"/>
WriteGroup-Internal-B (DS-WG-I-B)	K.1.22	<input type="checkbox"/>	<input type="checkbox"/>
WriteGroup-External-B (DS-WG-E-B)	K.1.23		
WriteGroup		<input type="checkbox"/>	<input type="checkbox"/>
WriteProperty		<input type="checkbox"/>	<input type="checkbox"/>

BACnet Interoperability Building Block Supported Alarm and Event Management	Reference	Initiate	Execute
Notification-A (AE-N-A)	K.2.1		
ConfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
Notification Internal-B (AE-N-I-B)	K.2.2		
ConfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
Notification External-A (AE-N-E-B)	K.2.3	<input type="checkbox"/>	<input type="checkbox"/>
ACK-A (AE-ACK-A)	K.2.4	<input type="checkbox"/>	<input type="checkbox"/>
ACK-B (AE-ACK-B)	K.2.5	<input type="checkbox"/>	<input type="checkbox"/>
Alarm Summary-A (AE-ASUM-A)	K.2.6	<input type="checkbox"/>	<input type="checkbox"/>
Alarm Summary-B (AE-ASUM-B)	K.2.7	<input type="checkbox"/>	<input type="checkbox"/>
Enrollment Summary-A (AE-ESUM-A)	K.2.8	<input type="checkbox"/>	<input type="checkbox"/>
Enrollment Summary-B (AE-ESUM-B)	K.2.9	<input type="checkbox"/>	<input type="checkbox"/>
Information-A (AE-INFO-A)	K.2.10	<input type="checkbox"/>	<input type="checkbox"/>
Information-B (AE-INFO-B)	K.2.11	<input type="checkbox"/>	<input type="checkbox"/>
LifeSafety-A (AE-LS-A)	K.2.12		
LifeSafetyOperation		<input type="checkbox"/>	<input type="checkbox"/>
ConfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
AcknowledgeAlarm		<input type="checkbox"/>	<input type="checkbox"/>
LifeSafety-B (AE-LS-B)	K.2.13		
LifeSafetyOperation		<input type="checkbox"/>	<input type="checkbox"/>
ConfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
View Notifications-A (AE-VN-A)	K.2.14		
ConfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
Advanced View Notifications-A (AE-AVN-A)	K.2.15		
ConfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
View and Modify-A (AE-VM-A)	K.2.16		
ReadProperty		<input type="checkbox"/>	<input type="checkbox"/>

BACnet Interoperability Building Block Supported Alarm and Event Management	Reference	Initiate	Execute
WriteProperty		<input type="checkbox"/>	<input type="checkbox"/>
Advanced View and Modify-A (AE-AVM-A)	K.2.17		
CreateObject		<input type="checkbox"/>	<input type="checkbox"/>
DeleteObject		<input type="checkbox"/>	<input type="checkbox"/>
ReadProperty		<input type="checkbox"/>	<input type="checkbox"/>
WriteProperty		<input type="checkbox"/>	<input type="checkbox"/>
Alarm Summary View-A (AE-AS-A)	K.2.18		
GetEventInformation		<input type="checkbox"/>	<input type="checkbox"/>
GetEnrollmentSummary		<input type="checkbox"/>	<input type="checkbox"/>
GetAlarmSummary		<input type="checkbox"/>	<input type="checkbox"/>
Event Log View (AE-ELV-A)	K.2.19	<input type="checkbox"/>	<input type="checkbox"/>
Event Log View and Modify(AE-ELVM-A)	K.2.20		
ReadRange		<input type="checkbox"/>	<input type="checkbox"/>
ReadProperty		<input type="checkbox"/>	<input type="checkbox"/>
WriteProperty		<input type="checkbox"/>	<input type="checkbox"/>
Event Log – Internal-B (AE-EL-I-B)	K.2.21	<input type="checkbox"/>	<input type="checkbox"/>
Event Log – External-B (AE-EL-E-B)	K.2.22		
Read Range		<input type="checkbox"/>	<input type="checkbox"/>
ConfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
Notification Forwarder-B (AE-NF-B)	K.2.23		
ConfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
AddListElement			
RemoveListElement			

BACnet Interoperability Building Block Supported Alarm and Event Management	Reference	Initiate	Execute
Notification Forwarder-Internal-B (AE-NF-I-B)	K.2.24		
ConfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
AddListElement		<input type="checkbox"/>	<input type="checkbox"/>
RemoveListElement		<input type="checkbox"/>	<input type="checkbox"/>

BACnet Interoperability Building Block Supported Scheduling	Reference	Initiate	Execute
Internal-B (SCHED-I-B)	K.3.2	<input type="checkbox"/>	<input type="checkbox"/>
External-A (SCHED-E-B)	K.3.3	<input type="checkbox"/>	<input type="checkbox"/>
Readonly-B (SCHED-R-B)	K.3.4	<input type="checkbox"/>	<input type="checkbox"/>
Advanced View and Modify-A (SCHED-AVM-A)	K.3.5		
CreateObject		<input type="checkbox"/>	<input type="checkbox"/>
DeleteObject		<input type="checkbox"/>	<input type="checkbox"/>
ReadProperty		<input type="checkbox"/>	<input type="checkbox"/>
WriteProperty		<input type="checkbox"/>	<input type="checkbox"/>
View and Modify-A (SCHED-VM-A)	K.3.6		
ReadProperty		<input type="checkbox"/>	<input type="checkbox"/>
WriteProperty		<input type="checkbox"/>	<input type="checkbox"/>
Weekly Schedule-A (SCHED-WS-A)	K.3.7		
ReadProperty		<input type="checkbox"/>	<input type="checkbox"/>
WriteProperty		<input type="checkbox"/>	<input type="checkbox"/>
Weekly Schedule Internal-B (CHED-WS-I-B)	K.3.8		
ReadProperty		<input type="checkbox"/>	<input type="checkbox"/>
WriteProperty		<input type="checkbox"/>	<input type="checkbox"/>
TimeSynchronization		<input type="checkbox"/>	<input type="checkbox"/>
UTCTimeSynchronization		<input type="checkbox"/>	<input type="checkbox"/>

BACnet Interoperability Building Block Supported Trending	Reference	Initiate	Execute
Viewing and Modifying Trends-A (T-VMT-A)	K.4.1	<input type="checkbox"/>	<input type="checkbox"/>
Viewing and Modifying Trends-Internal-B (T-VMT-I-B)	K.4.2	<input type="checkbox"/>	<input type="checkbox"/>
Viewing and Modifying Trends-External-B (T-VMT-E-B)	K.4.3	<input type="checkbox"/>	<input type="checkbox"/>
Automated Trend Retrieval-A (T-ATR-A)	K.4.4		

BACnet Interoperability Building Block Supported Trending	Reference	Initiate	Execute
ConfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
ReadRange		<input type="checkbox"/>	<input type="checkbox"/>
Automated Trend Retrieval-B (T-ATR-B)	K.4.5		
ConfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
ReadRange		<input type="checkbox"/>	<input type="checkbox"/>
Viewing and Modifying Multiple Values-A (T-VMMV-A)	K.4.6	<input type="checkbox"/>	<input type="checkbox"/>
Viewing and Modifying Multiple Values Internal-B (T-VMMV-A)	K.4.7	<input type="checkbox"/>	<input type="checkbox"/>
Viewing and Modifying Multiple Values External-B (T-VMMV-E-B)	K.4.8	<input type="checkbox"/>	<input type="checkbox"/>
Automated Multiple Value Retrieval-A (T-AMVR-A)	K.4.9		
ConfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
ReadRange		<input type="checkbox"/>	<input type="checkbox"/>
Automated Multiple Value Retrieval-B (T-AMVR-B)	K.4.10		
ConfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedEventNotification		<input type="checkbox"/>	<input type="checkbox"/>
ReadRange		<input type="checkbox"/>	<input type="checkbox"/>
Trending View-A (T-V-A)	K.4.11	<input type="checkbox"/>	<input type="checkbox"/>
Advanced View and Modify-A (T-AVM-A)	K.4.12		
CreateObject		<input type="checkbox"/>	<input type="checkbox"/>
DeleteObject		<input type="checkbox"/>	<input type="checkbox"/>
ReadProperty		<input type="checkbox"/>	<input type="checkbox"/>
ReadRange		<input type="checkbox"/>	<input type="checkbox"/>
WriteProperty		<input type="checkbox"/>	<input type="checkbox"/>
Archival (T-A-A)	K.4.13	<input type="checkbox"/>	<input type="checkbox"/>

BACnet Interoperability Building Block Supported Device and Network Management	Reference	Initiate	Execute
Dynamic Device Binding-A (DM-DDB-A)	K.5.1		
Who-Is		<input type="checkbox"/>	<input type="checkbox"/>
I-Am		<input type="checkbox"/>	<input type="checkbox"/>
Dynamic Device Binding-B (DM-DDB-B)	K.5.2		
Who-Is		<input checked="" type="checkbox"/>	<input type="checkbox"/>

BACnet Interoperability Building Block Supported Device and Network Management	Reference	Initiate	Execute
I-Am		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Dynamic Object Binding-A (DM-DOB-A)	K.5.3		
Who-Has		<input type="checkbox"/>	<input type="checkbox"/>
I-Have		<input type="checkbox"/>	<input type="checkbox"/>
Dynamic Object Binding-B (DM-DOB-B)	K.5.4	<input type="checkbox"/>	<input type="checkbox"/>
Who-Has		<input type="checkbox"/>	<input type="checkbox"/>
I-Have		<input type="checkbox"/>	<input type="checkbox"/>
DeviceCommunicationControl-A (DM-DCC-A)	K.5.5	<input type="checkbox"/>	<input type="checkbox"/>
DeviceCommunicationControl-B (DM-DCC-B)	K.5.6	<input type="checkbox"/>	<input type="checkbox"/>
Text Message-A (DM-TM-A)	K.5.9		
ConfirmedTextMessage		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedTextMessage		<input type="checkbox"/>	<input type="checkbox"/>
Text Message-B (DM-TM-B)	K.5.10		
ConfirmedTextMessage		<input type="checkbox"/>	<input type="checkbox"/>
UnconfirmedTextMessage		<input type="checkbox"/>	<input type="checkbox"/>
TimeSynchronization-A (DM-TS-A)	K.5.11	<input type="checkbox"/>	<input type="checkbox"/>
TimeSynchronization-B (DM-TS-B)	K.5.12	<input type="checkbox"/>	<input checked="" type="checkbox"/>
UTCTimeSynchronization-A (DM-UTC-A)	K.5.13	<input type="checkbox"/>	<input type="checkbox"/>
UTCTimeSynchronization-B (DM-UTC-B)	K.5.14	<input type="checkbox"/>	<input type="checkbox"/>
ReinitializeDevice-A (DM-RD-A)	K.5.15	<input type="checkbox"/>	<input type="checkbox"/>
ReinitializeDevice-B (DM-RD-B)	K.5.16	<input type="checkbox"/>	<input type="checkbox"/>
Backup and Restore-A (DM-BR-A)	K.5.17		
AtomicReadFile		<input type="checkbox"/>	<input type="checkbox"/>
AtomicWriteFile		<input type="checkbox"/>	<input type="checkbox"/>
CreateObject		<input type="checkbox"/>	<input type="checkbox"/>
ReinitializeDevice		<input type="checkbox"/>	<input type="checkbox"/>
Backup and Restore-B (DM-BR-B)	K.5.18		
AtomicReadFile		<input type="checkbox"/>	<input type="checkbox"/>
AtomicWriteFile		<input type="checkbox"/>	<input type="checkbox"/>
ReinitializeDevice		<input type="checkbox"/>	<input type="checkbox"/>
Restart-A (DM-R-A)	K.5.19	<input type="checkbox"/>	<input type="checkbox"/>
Restart-B (DM-R-B)	K.5.20	<input type="checkbox"/>	<input type="checkbox"/>
List Manipulation-A (DM-LM-A)	K.5.21		
AddListElement		<input type="checkbox"/>	<input type="checkbox"/>
RemoveListElement		<input type="checkbox"/>	<input type="checkbox"/>

BACnet Interoperability Building Block Supported Device and Network Management	Reference	Initiate	Execute
List Manipulation-B (DM-LM-B)	K.5.22	<input type="checkbox"/>	<input type="checkbox"/>
AddListElement		<input type="checkbox"/>	<input type="checkbox"/>
RemoveListElement		<input type="checkbox"/>	<input type="checkbox"/>
Object Creation and Deletion-A (DM-OCD-A)	K.5.23		
CreateObject		<input type="checkbox"/>	<input type="checkbox"/>
DeleteObject		<input type="checkbox"/>	<input type="checkbox"/>
Object Creation and Deletion-B (DM-OCD-B)	K.5.24		
CreateObject		<input type="checkbox"/>	<input type="checkbox"/>
DeleteObject		<input type="checkbox"/>	<input type="checkbox"/>
Virtual Terminal-A (DM-VT-A)	K.5.25		
VT-Open		<input type="checkbox"/>	<input type="checkbox"/>
VT-Close		<input type="checkbox"/>	<input type="checkbox"/>
VT-Data		<input type="checkbox"/>	<input type="checkbox"/>
Virtual Terminal-B (DM-VT-B)	K.5.26		
VT-Open		<input type="checkbox"/>	<input type="checkbox"/>
VT-Close		<input type="checkbox"/>	<input type="checkbox"/>
VT-Data		<input type="checkbox"/>	<input type="checkbox"/>
Connection Establishment-A (NM-CE-A)	K.5.27		
Establish-Connection-To-Network		<input type="checkbox"/>	<input type="checkbox"/>
Disconnect-Connection-To-Network		<input type="checkbox"/>	<input type="checkbox"/>
Connection Establishment-B (NM-CE-B)	K.5.28		
Establish-Connection-To-Network		<input type="checkbox"/>	<input type="checkbox"/>
Disconnect-Connection-To-Network		<input type="checkbox"/>	<input type="checkbox"/>
Router Configuration-A (NM-RC-A)	K.5.29		
Who-Is-Router-To-Network		<input type="checkbox"/>	<input type="checkbox"/>
I-Am-Router-To-Network		<input type="checkbox"/>	<input type="checkbox"/>
I-Could-Be-Router-To-Network		<input type="checkbox"/>	<input type="checkbox"/>
Initialize-Routing-Table		<input type="checkbox"/>	<input type="checkbox"/>
Initialize-Routing-Table-Ack		<input type="checkbox"/>	<input type="checkbox"/>
Router Configuration-B (NM-RC-B)	K.5.30		
Who-Is-Router-To-Network		<input type="checkbox"/>	<input checked="" type="checkbox"/>
I-Am-Router-To-Network		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Initialize-Routing-Table		<input type="checkbox"/>	<input type="checkbox"/>
Initialize-Routing-Table-Ack		<input type="checkbox"/>	<input type="checkbox"/>
Automatic Network Mapping-A (DM-ANM-A)	K.5.31	<input type="checkbox"/>	<input type="checkbox"/>

BACnet Interoperability Building Block Supported Device and Network Management	Reference	Initiate	Execute
Automatic Network Mapping-B (DM-ANM-B)	K.5.32	<input type="checkbox"/>	<input type="checkbox"/>
Automatic Time Synchronization-A (DM-ATS-A)	K.5.33		
TimeSynchronization		<input type="checkbox"/>	<input type="checkbox"/>
UTCTimeSynchronization		<input type="checkbox"/>	<input type="checkbox"/>
Manual Time Synchronization-A (DM-MTS-A)	K.5.34		
TimeSynchronization		<input type="checkbox"/>	<input checked="" type="checkbox"/>
UTCTimeSynchronization		<input type="checkbox"/>	<input type="checkbox"/>

BACnet Interoperability Building Block Supported Network Security	Reference	Initiate	Execute
Secure Device (NS-SD)	K.5.35.1		
Challenge-Request		<input type="checkbox"/>	<input type="checkbox"/>
Security-Payload		<input type="checkbox"/>	<input type="checkbox"/>
Security-Response		<input type="checkbox"/>	<input type="checkbox"/>
Request-Key-Update		<input type="checkbox"/>	<input type="checkbox"/>
Update-Key-Set		<input type="checkbox"/>	<input type="checkbox"/>
Update-Distribution-Key		<input type="checkbox"/>	<input type="checkbox"/>
What-Is-Network-Number		<input type="checkbox"/>	<input type="checkbox"/>
Network-Number-Is		<input type="checkbox"/>	<input type="checkbox"/>
Encrypted Device (NS-ED)	K.5.35.2	<input type="checkbox"/>	<input type="checkbox"/>
Multi-Application Device (NS-MAD)	K.5.35.3	<input type="checkbox"/>	<input type="checkbox"/>
Device Master Key-A (NS-DMK-A)	K.5.35.4		
Request-Master-Key		<input type="checkbox"/>	<input type="checkbox"/>
Set-Master-Key		<input type="checkbox"/>	<input type="checkbox"/>
Device Master Key-B (NS-DMK-B)	K.5.35.5		
Request-Master-Key		<input type="checkbox"/>	<input type="checkbox"/>
Set-Master-Key		<input type="checkbox"/>	<input type="checkbox"/>
Key Server (NS-KS)	K.5.35.6		
Request-Key-Update		<input type="checkbox"/>	<input type="checkbox"/>
Update-Key-Set		<input type="checkbox"/>	<input type="checkbox"/>
Update-Distribution-Key		<input type="checkbox"/>	<input type="checkbox"/>
Request-Master-Key		<input type="checkbox"/>	<input type="checkbox"/>
Set-Master-Key		<input type="checkbox"/>	<input type="checkbox"/>
Temporary Key Server (NS-TKS)	K.5.35.7		
Request-Key-Update		<input type="checkbox"/>	<input type="checkbox"/>
Update-Key-Set		<input type="checkbox"/>	<input type="checkbox"/>

BACnet Interoperability Building Block Supported Network Security	Reference	Initiate	Execute
Update-Distribution-Key		<input type="checkbox"/>	<input type="checkbox"/>
Request-Master-Key		<input type="checkbox"/>	<input type="checkbox"/>
Set-Master-Key		<input type="checkbox"/>	<input type="checkbox"/>
Secure Router (NS-SR)	K.5.35.8	<input type="checkbox"/>	<input type="checkbox"/>
Security Proxy (NS-SP)	K.5.35.9	<input type="checkbox"/>	<input type="checkbox"/>

Segmentation Capability:

- Able to transmit segmented messages Window Size 1024
- Able to receive segmented messages Window Size 1024



Standard Object Types Supported:

STANDARD OBJECT	SUPPORTED	CREATE OBJECT	DELETE OBJECT	OPTIONAL PROPERTIES	WRITEABLE	PROPRIETARY	RANGE REACTIONS	COMMENTS
Device Object	X	No	No		Yes	No		
Analog Input	X	No	No		Yes	No		
Analog Output	X	No	No		Yes	No		
Analog Value	X	No	No		Yes	No		
Binary Input	X	No	No		Yes	No		
Binary Output	X	No	No		Yes	No		
Binary Value	X	No	No		Yes	No		
Multi State Input Object	X	No	No		Yes	No		
Multi State Output	X	No	No		Yes	No		
Multi State Value	X	No	No		Yes	No		
Character String Value	X	No	No		Yes	No		
Notification Class Object	No	No	No		No	No		

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.
- The S4 BACnet Ecobee Integration routes between BACnet IP and the Ecobee cloud repository using Ecobee APIs.
- 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

**Character Sets Supported:**

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

- | | | |
|---|---|-------------------------------------|
| <input checked="" type="checkbox"/> ISO 10646 (UTF-8) | <input type="checkbox"/> IBM™/Microsoft™ DBCS | <input type="checkbox"/> ISO 8859-1 |
| <input type="checkbox"/> ISO 10646 (UCS-2) | <input type="checkbox"/> ISO 10646 (UCS-4) | <input type="checkbox"/> JIS X 0208 |

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

The S4 BACnet Ecobee Integration acts as a gateway between Ecobee SmartBuildings accounts and BACnet. The product supports the spirit of addendum Add-135-2010a.

The S4 BACnet Ecobee Integration itself sits on the primary enterprise backbone and is assigned a BACnet network number and Device ID by the installer. The S4 BACnet Ecobee Integration publishes performance and management statistics as Analog Value points under its Device Object.

The S4 BACnet Ecobee Integration hosts a virtual BACnet network which the integration assigns a unique BACnet network number. Each discovered Ecobee thermostat is published as a virtual BACnet device with the same device characteristics as the S4 BACnet Ecobee Integration. The BACnet Device ID for each virtual device is derived as a sequentially incremental ID starting from a user specified value.

Visit <http://www.thes4group.com> for more details about features and options.

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)