BACnet protocol implementation conformance statement

Regio RCX family of Room Controllers

REGIN

Company Information

THANK YOU FOR CHOOSING REGIN!
Regin provides comprehensive solutions for building automation, including intuitive BMS-solutions, freely programmable and pre-programmed controllers, field devices and more.
Regin's offer, in combination with DEOS and Industrietechnik, empower system integrators, installers, and property owners with a powerful toolbox, setting them in a position to create building automation solutions that save both energy and engineering time. Today, versatile building management, optimized room control, and effective workflows have become the pillars for leading property owners in realizing significant energy savings in properties. Regin shares the clear goal of the group; to make this challenge easier on the way towards a sustainable future.

Further information on AB Regin can be found online at www.regincontrols.com.

Product Name:	Regio RCX family of room controllers
Date:	2024-05-16
Document version:	Rev A
Vendor Name:	AB Regin
Product Model Number:	15xx
Application Software Version:	1.0-1-00
Firmware Revision:	3.4.0.8
BACnet Protocol Revision:	1.14
Product Description:	Regio RCX are smart room controllers with an attractive sleek minimalistic modern design that provides the ability to seamlessly install the product in design-critical environments.

BACnet Standardized Device Profiles Supported (Annex L):
☐ BACnet Cross-Domain Advanced Operator Workstation (B-XAWS)
☐ BACnet Advanced Operator Workstation (B-AWS)
☐ BACnet Operator Workstation (B-OWS)
☐ BACnet Operator Display (B-OD)
☐ BACnet Advanced Life Safety Workstation (B-ALSWS)
☐ BACnet Life Safety Workstation (B-LSWS)
☐ BACnet Life Safety Annunciator Panel (B-LSAP)
☐ BACnet Advanced Access Control Workstation (B-AACWS)
☐ BACnet Access Control Workstation (B-ACWS)
☐ BACnet Access Control Security Display (B-ACSD)
☐ BACnet Building Controller (B-BC)
☐ BACnet Advanced Application Controller (B-AAC)
☑ BACnet Application Specific Controller (B-ASC) [1]
☐ BACnet Smart Actuator (B-SA)
☐ BACnet Smart Sensor (B-SS)
☐ BACnet Advanced Life Safety Controller (B-ALSC)
☐ BACnet Life Safety Controller (B-LSC)
☐ BACnet Advanced Access Control Controller (B-AACC)

☐ BACnet Access Control Controller (B-ACC)
☐ BACnet Router (B-RTR)
☐ BACnet Gateway (B-GW)
☐ BACnet Broadcast Management Device (B-BBMD)
☐ BACnet Access Control Door Controller (B-ACDC)
☐ BACnet Access Control Credential Reader (B-ACCR)
☐ BACnet General (B-GENERAL)

[1] The controller uses a BACnet implementation that is BTL tested as B-AAC, but not all its functions.

BACnet Interoperability Building Blocks Supported (Annex K):

Data sharing	Data Sharing – ReadProperty – B	DS-RP-B
	Data Sharing – ReadPropertyMultiple – B	DS-RPM-B
	Data Sharing – WriteProperty – B	DS-WP-B
	Data Sharing – COV – B	DS-COV-B
	Data Sharing – COVP – B	DS-COVP-B
Device Management	Device Management – Dynamic Device Binding – B	DM-DDB-B
	Device Management – Dynamic Object Binding – B	DM-DOB-B
	Device Management – DeviceCommunicationControl – B	DM-DCC-B
	Device Management – ReinitializeDevice – B	DM-RD-B
	Device Management – List Manipulation – B	DM-LM-B

Segmentation Capability:
☑ Able to transmit segmented messages Window Size: 1
☐ Able to receive segmented messages Window Size

Standard Object Types Supported:

Object type	Supported	Creatable	Deletable
Analog Value	●		
Binary Value	●		
Device	●		
Multi-State Value	●		

Object type	Optional/writable properties	Writable properties (not otherwise required by the standard)	Range restrictions
	Positive Integer Value	●	

Object type	Optional/writable properties	Writable properties (not otherwise required by the standard)	Range restrictions
Analog Value	Object_Name	1	
	Present_Value	●	
	Description		
	Reliability		
	COV_Increment		
Binary Value	Object_Name	1	
	Present_Value	●	
	Description		
	Reliability		
	Inactive_Text		
	Active_Text		
Device	Object_Identifier	●	
	Object_Name	●	
	Location	●	
	Description	●	
	Max_Segments_Accepted		
	APDU_Segment_Timeout		
	Max_Master		
	Max_Info_Frames		
	Active_COV_Subscriptions		
	Serial_Number		
Multistate Value	Object_Name	1	

	Present_Value	●	
	Description		
	Reliability		
	State_Text		
Positive Integer Value	Object Name	1	
	Present_Value	●	
	Description		
	Reliability		

[1] Not all objects support writable names.

Data Link Layer Options:
☐ ARCNET (ATA 878.1), 2.5 Mb. (Clause 8)
☐ ARCNET (ATA 878.1), EIA-485 (Clause 8), baud rate(s) _____
☐ BACnet IP, (Annex J)
☐ BACnet IP, (Annex J), BACnet Broadcast Management Device (BBMD)
☐ BACnet IP, (Annex J), Network Address Translation (NAT Traversal)
☐ BACnet IPv6, (Annex U)
☐ BACnet IPv6, (Annex U), BACnet Broadcast Management Device (BBMD)
☐ BACnet/ZigBee (Annex O) _____
☐ Ethernet, ISO 8802-3 (Clause 7)
☐ LonTalk, ISO/IEC 14908.1 (Clause 11), medium: _____
☑ MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400 or 76800 bps
☐ 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):
☐ 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

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

Gateway Options:
N/A

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)