

BACnet protocol implementation conformance statement

Blue ID S10 Controller



Product information	
Date	2013-07-23
Product name and model number	Blue ID S10 Controller
Application software version	1.0
Firmware revision	1.00
BACnet protocol revision	9
Product description	The Blue ID S10 Controller contains a powerful microprocessor. It can be easily programmed for building automation purposes. The processing speed and computing power mesh seamlessly with the requirements of modern and integrated systems. The controller uses a reliable operating system that ensures quality and operational security. It is fully controllable via BACnet including commissioning, writing, reading, alarm and event handling.
BACnet standardized device profile	BACnet Building Controller (B-BC)

Vendor information	
Vendor name	Priva
Vendor ID	105
Contact information	PO Box 18 2678 ZG The Netherlands www.priva.co.uk

Supported BIBBs	
DS-RP-A	Data Sharing - Read Property - A
DS-RP-B	Data Sharing - Read Property - B
DS-RPM-A	Data Sharing - Read Property Multiple - A
DS-RPM-B	Data Sharing - Read Property Multiple - B
DS-WP-A	Data Sharing - Write Property - A
DS-WP-B	Data Sharing - Write Property - B
DS-WPM-B	Data Sharing - Write Property Multiple - B
DS-COV-A	Data Sharing - COV - A
DS-COV-B	Data Sharing - COV - B
AE-N-I-B	Alarm and Event - Notification - Internal - B
AE-ACK-B	Alarm and Event - ACK - B
AE-ASUM-B	Alarm and Event - Alarm Summary - B
AE-ESUM-B	Alarm and Event - Enrolment Summary - B
AE-INFO-B	Alarm and Event - Information - B
SCHED-I-B	Scheduling - Internal - B
SCHED-E-B	Scheduling - External - B
T-VMT-I-B	Trending - Viewing and Modifying Trends - Internal - B
T-VMT-E-B	Trending - Viewing and Modifying Trends - External - B
T-ATR-B	Trending - Automated Trend Retrieval - B
DM-DDB-A	Device Management - Dynamic Device Binding - A
DM-DDB-B	Device Management - Dynamic Device Binding - B
DM-DOB-B	Device Management - Dynamic Object Binding - B
DM-DCC-B	Device Management - Device Communication Control - B
DM-TS-B	Device Management - TimeSynchronization - B
DM-UTC-B	Device Management - UTC Time Synchronization - B
DM-RD-B	Device Management - Reinitialize Device - B
DM-BR-B	Device Management - Backup and Restore - B
DM-LM-B	Device Management - List Manipulation - B
DM-OCD-B	Device Management - Object Creation and Deletion - B
NM-CE-A	Network Management - Connection Establishment - A
NM-RC-B	Network Management - Router Configuration - B

Standard object types supported ¹	Dynamically creatable and deletable
Accumulator	no
Analog Input	no
Analog Value	no
Binary Input	no
Binary Output	no
Binary Value	no
Calendar	yes
Device	no
Event Enrollment	no
File	yes
Loop	no
Multi-state Output	no
Multi-state Value	no
Notification Class	no
Schedule	yes
Trend Log	yes

¹ For each supported object type additional data is provided further down.

Other features	
Segmentation capability	<ul style="list-style-type: none"> segmented requests supported, window size: 16 segmented responses supported, window size: 16
Data link layer options	<ul style="list-style-type: none"> BACnet IP, DIX ethernet MS/TP master, baud rates: 9600, 19200, 38400, 57600, 76800, 115200
Static device address binding	not supported
Networking options	<ul style="list-style-type: none"> router routing configuration: ethernet MS/TP BACnet/IP broadcast management device (BBMD) supports registrations by foreign devices network address translation (NAT) is not supported
Network security options	non-secure device
Character set supported	ANSI X3.4

Supported properties per object type	Required or optional	Readable (R) or readable/writeable (R/W)	Additional comments
Accumulator			
Object_Identifier	required	R	
Object_Name	required	R	
Object_Type	required	R	
Present_Value	required	R/W	
Description	optional	R	
Status_Flags	required	R	
Event_State	required	R	
Out_Of_Service	required	R/W	
Scale	required	R	
Units	required	R	
Prescale	optional	R	
Max_Pres_Value	required	R	
Analog Input			
Object_Identifier	required	R	
Object_Name	required	R	
Object_Type	required	R	
Present_Value	required	R	
Description	optional	R	
Status_Flags	required	R	
Event_State	required	R	
Reliability	optional	R	
Out_Of_Service	required	R/W	
Units	required	R	

Supported properties per object type	Required or optional	Readable (R) or readable/writeable (R/W)	Additional comments
COV_Increment	optional	R/W	
Analog Value			
Object_Identifier	required	R	
Object_Name	required	R	
Object_Type	required	R	
Present_Value	required	R/W	This property is writable if the object has a Priority_Array (i.e. is commandable).
Description	optional	R	
Status_Flags	required	R	
Event_State	required	R	
Out_Of_Service	required	R/W	
Units	required	R	
Priority_Array	required	R	
Relinquish_Default	required	R	
COV_Increment	optional	R/W	
Binary Input			
Object_Identifier	required	R	
Object_Name	required	R	
Object_Type	required	R	
Present_Value	required	R/W	
Description	optional	R	
Status_Flags	required	R	
Event_State	required	R	
Out_Of_Service	required	R/W	
Polarity	required	R	
Inactive_Text	optional	R	
Active_Text	optional	R	
Time_Delay	optional	R	These properties are only present if the object has a Notification_Class (i.e. supports intrinsic reporting).
Notification_Class	optional	R	
Alarm_Value	optional	R	
Event_Enable	optional	R	
Acked_Transitions	optional	R	
Notify_Type	optional	R	
Event_Time_Stamps	optional	R	
Binary Output			
Object_Identifier	required	R	
Object_Name	required	R	
Object_Type	required	R	
Present_Value	required	R/W	
Description	optional	R	
Status_Flags	required	R	
Event_State	required	R	
Out_Of_Service	required	R/W	
Polarity	optional	R	
Inactive_Text	optional	R	
Active_Text	optional	R	
Priority_Array	required	R	
Relinquish_Default	required	R	
Binary Value			
Object_Identifier	required	R	
Object_Name	required	R	
Object_Type	required	R	
Present_Value	required	R/W	This property is writable if the object has a Priority_Array (i.e. is commandable).
Description	optional	R	
Status_Flags	required	R	

Supported properties per object type	Required or optional	Readable (R) or readable/writeable (R/W)	Additional comments
Event_State	required	R	
Out_Of_Service	required	R/W	
Inactive_Text	optional	R	
Active_Text	optional	R	
Priority_Array	required	R	
Relinquish_Default	required	R	
Time_Delay	optional	R	These properties are only present if the object has a Notification_Class (i.e. supports intrinsic reporting).
Notification_Class	optional	R	
Alarm_Value	optional	R	
Event_Enable	optional	R	
Acked_Transitions	optional	R	
Notify_Type	optional	R	
Event_Time_Stamps	optional	R	
Calendar			
Object_Identifier	required	R	These properties can be specified on creation of the object.
Object_Name	required	R	
Object_Type	required	R	
Present_Value	required	R	
Description	optional	R/W	This property is writable if the object is dynamically created.
Date_List	required	R/W	
Device			
Object_Identifier	required	R	
Object_Name	required	R	
Object_Type	required	R	
System_Status	required	R	
Vendor_Name	required	R	
Vendor_Identifier	required	R	
Model_Name	required	R	
Firmware_Revision	required	R	
Application_Software_Version	required	R	
Description	optional	R	
Protocol_Version	required	R	
Protocol_Revision	required	R	
Protocol_Services_Supported	required	R	
Protocol_Object_Types_Supported	required	R	
Object List	required	R	
Max_APDU_Length_Accepted	required	R	
Segmentation_Supported	required	R	
Max_Segments_Accepted	optional	R	
Local_Time	optional	R	
Local_Date	optional	R	
UTC_Offset	optional	R	
Daylight_Savings_Status	optional	R	
APDU_Segment_Timeout	optional	R	
APDU_Timeout	required	R/W	
Number_Of_APDU_Retries	required	R/W	
Device_Address_Binding	required	R	
Database_Revision	required	R	
Configuration_Files	optional	R	
Last_Restore_Time	optional	R	
Backup_Failure_Timeout	optional	R/W	
Active_COV_Subscriptions	optional	R	
Event Enrollment			
Object_Identifier	required	R	
Object_Name	required	R	
Object_Type	required	R	

Supported properties per object type	Required or optional	Readable (R) or readable/writeable (R/W)	Additional comments
Description	optional	R	
Event_Type	required	R	
Notify_Type	required	R	
Event_Parameters	required	R	
Object_Property_Reference	required	R	
Event_State	required	R	
Event_Enable	required	R	
Acked_Transitions	required	R	
Notification_Class	required	R	
Event_Time_Stamps	required	R	
File			
Object_Identifier	required	R	
Object_Name	required	R	
Object_Type	required	R	
Description	optional	R	
File_Type	required	R	
File_Size	required	R/W	
Modification_Date	required	R	
Archive	required	R/W	
Read_Only	required	R	
File_Access_Method	required	R	
Loop			
Object_Identifier	required	R	
Object_Name	required	R	
Object_Type	required	R	
Present_Value	required	R	
Description	optional	R	
Status_Flags	required	R	
Event_State	required	R	
Out_of_Service	required	R/W	
Output_Units	required	R	
Manipulated_Variable_Reference	required	R	
Controlled_Variable_Reference	required	R	
Controlled_Variable_Value	required	R	
Controlled_Variable_Units	required	R	
Setpoint_Reference	required	R	
Setpoint	required	R	
Action	required	R	
Proportional_Constant	optional	R/W	
Proportional_Constant_Units	optional	R	
Integral_Constant	optional	R/W	
Integral_Constant_Units	optional	R	
Derivative_Constant	optional	R/W	
Derivative_Constant_Units	optional	R	
Bias	optional	R/W	
Maximum_Output	optional	R/W	
Minimum_Output	optional	R	
Priority_For_Writing	required	R	
COV_Increment	optional	R/W	
Multi-state Output			
Object_Identifier	required	R	
Object_Name	required	R	
Object_Type	required	R	
Present_Value	required	R/W	
Description	optional	R	
Status_Flags	required	R	

Supported properties per object type	Required or optional	Readable (R) or readable/writeable (R/W)	Additional comments
Event_State	required	R	
Out_of_Service	required	R/W	
Number_Of_States	required	R	
State_Text	optional	R	
Priority_Array	required	R	
Relinquish Default	required	R	
Multi-state Value			
Object_Identifier	required	R	
Object_Name	required	R	
Object_Type	required	R	
Present_Value	required	R/W	This property is writable if the object has a Priority_Array (i.e. is commandable).
Description	optional	R	
Status_Flags	required	R	
Event_State	required	R	
Out_of_Service	required	R/W	
Number_Of_States	required	R	
State_Text	optional	R	
Priority_Array	optional	R	
Relinquish Default	optional	R	
Notification Class			
Object_Identifier	required	R	
Object_Name	required	R	
Object_Type	required	R	
Description	optional	R	
Notification_Class	required	R	
Priority	required	R/W	
Ack_Required	required	R	
Recipient List	required	R/W	
Schedule			
Object_Identifier	required	R	These properties can be specified on creation of the object.
Object_Name	required	R	
Object_Type	required	R	
Present_Value	required	R/W	
Description	optional	R/W	This property is only writable if the object is dynamically created.
Effective_Period	required	R/W	
Weekly_Schedule	optional	R/W	
Exception_Schedule	optional	R	This property can be specified on creation of the object.
Schedule_Default	required	R/W	
List_Of_Object_Property_References	required	R/W	
Priority_For_Writing	required	R/W	
Status_Flags	required	R	
Out_of_Service	required	R/W	
Reliability	required	R	
Trend Log			
Object_Identifier	required	R	These properties can be specified on creation of the object.
Object_Name	required	R	
Object_Type	required	R	
Description	optional	R/W	This property is only writable if the object is dynamically created.
Enable	required	R/W	
Start_Time	optional	R/W	
Stop_Time	optional	R/W	
Log_Device_Object_Property	optional	R/W	These properties are only writable if the object is dynamically created.
Log_Interval	optional	R/W	

Supported properties per object type	Required or optional	Readable (R) or readable/writeable (R/W)	Additional comments
Stop_When_Full	required	R	
Buffer_Size	required	R	This property can be specified on creation of the object.
Log_Buffer	required	R	
Record_Count	required	R/W	
Total_Record_Count	required	R	
Notification_Threshold	optional	R/W	This property is writable if the object is dynamically created.
Records_Since_Notification	optional	R	
Last_Notify_Record	optional	R	
Events_State	required	R	
Notification_Class	optional	R/W	These properties are only writable if the object is dynamically created.
Event_Enable	optional	R/W	
Acked_Transitions	optional	R	
Notify_Types	optional	R	
Event_Time_Stamps	optional	R	