

Saia Burgess Controls

BACnet PCD7.R560 BACnet PCD7.R562

Protocol Implementation Conformance Statement (PICS)

Version 1.22.29

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Document Revision

Date	Version	Revision informations
23.04.2013 - 22.05.2013, 20.10.2013 29.01.2014	1.22.29	Additions <ul style="list-style-type: none">- Add Objects and BiBBs for Event Log, Structured View & Trendlog Multiple- Updated device list- Definition of BACnet firmware revision number 1.22.29- Remove MS/TP Baudrate 76800 from the PICS.- Remove MS/TP Option from PCD7.Dx

BACnet Protocol Implementation Conformance Statement (PICS)

Date: 20.12.2013

Vendor Name: SBC Saia Burgess Controls (Vendor ID = 89)

Product Names: BACnet for PCD1.M2xx0, PCD2.M5xx0, PCD3.Mxxx0,
PCD7.D4xxxT5F

automation stations:
PCD1.M0160E0, PCD1.M2110R1, PCD1.M2120, PCD1.M2160
PCD2.M5540
PCD3.M3120, PCD3.M3330
PCD3.M5340, PCD3.M5540, PCD3.M6340, PCD3.M6540
PCD3.M5560, PCD3.M6360, PCD3.M6560, PCD3.M6860
PCD3.M90
PCD7.D457VT5F, PCD7.D410VT5F, PCD7.D412DT5F

Product Model Number: PCD7.R560, PCD7.R562,
PCD3.R560, PCD3.R562
For PCD3.M90 PCD7.R596

Applications Software Version: -

Firmware Revision: PCD2.M5xx0, PCD3.M3xx0, PCD3.Mxx40, PCD3.M90
BACnet_PCD3.Mxxx0_PCD2.M5xx0_1.22.29.blk

PCD1.Mxxx0, PCD3.Mxx60, PCD7.D4xxxT5F
BACnet_PCD1.M2xx0_PCD3.Mxx60_1.22.29.blk

BACnet Protocol Revision: 1.9 (BACnet ANSI/ASHRAE 135-2010)

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1. Product Description:

The **Saia PCD BACnet Memory Flash Card** is a Plugin into the **PCD1.M0/2, PCD2.M5, PCD3.M** and **PCD7.D4xxxT5F controller** hardware extending its communication capabilities to a **BACnet Building Controller** (B-BC).

The Saia PCD BACnet solution can be used for the following Controllers to support the B-BC profile:

PCD1

- PCD1.M0160E0 E-Controller
- PCD1.M2110R1 PCD1.Room
- PCD1.M2120
- PCD1.M2160

PCD2

- PCD2.M5540

PCD3

- PCD3.M3120
- PCD3.M3330
- PCD3.M5340
- PCD3.M5540
- PCD3.M90

PCD3+

- PCD3.M5560
- PCD3.M6360
- PCD3.M6560
- PCD3.M6860

MB-Panel with Logic Controller*¹

(*¹Without MS/TP Option)

- PCD7.D457VT5F
- PCD7.D410VT5F
- PCD7.D412DT5F

2. BACnet Standardized Device Profile (Annex L):

- BACnet Operator Workstation (B-OWS)
- 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)

3. BACnet Interoperability Building Blocks Supported (Annex K):

3.1 Data Sharing BIBBs

Data Sharing Read-Property-A	DS-RP-A
Data Sharing Read-Property-B	DS-RP-B
Data Sharing Read-Property-Multiple-A	DS-RPM-A
Data Sharing Read-Property-Multiple-B	DS-RPM-B
Data Sharing Write-Property-A	DS-WP-A
Data Sharing Write-Property-B	DS-WP-B
Data Sharing Write-Property-Multiple-B	DS-WPM-B
Data Sharing COV-A	DS-COV-A
Data Sharing COV-B	DS-COV-B
Data Sharing COV-Unsolicited-A	DS-COVU-A
Data Sharing COV-Unsolicited-B	DS-COVU-B
Data Sharing COV-Property-B	DS-COVP-B

3.2 Alarm / Event BIBBs

Alarm and Event-Notification Internal-B	AE-N-I-B
Alarm and Event-Notification External-B	AE-N-E-B
Alarm and Event-Acknowledge-B	AE-ACK-B
Alarm and Event-Information-B	AE-INFO-B
Alarm and Event-Alarm Summary-A	AE-ASUM-B
Alarm and Event-Enrollment Summary-B	AE-ESUM-B
Alarm and Event Management - Event Log - Internal - B	AE-EL-I-B
Alarm and Event Management - Event Log - External - B	AE-EL-E-B

3.3 Scheduling BIBBs

Scheduling-Internal-B	SCHED-I-B
Scheduling-External-B	SCHED-E-B

3.4 Trending BIBBs

Trending-Viewing and Modifying Trends Internal-B	T-VMT-I-B
Trending-Viewing and Modifying Trends External-B	T-VMT-E-B
Trending-Automated Trend Retrieval-B	T-ATR-B
Trending-Viewing and Modifying Multiple Values Internal-B	T-VMMV-I-B
Trending-Viewing and Modifying Multiple Values External-B	T-VMMV-E-B
Trending-Automated Multiple Value Retrieval-B	T-AMVR-B

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Device Management BIBBs

Device Management-Dynamic Device Binding-A	DM-DDB-A
Device Management-Dynamic Device Binding-B	DM-DDB-B
Device Management-Dynamic Object Binding-A	DM-DOB-A
Device Management-Dynamic Object Binding-B	DM-DOB-B
Device Management-DeviceCommunicationControl-B	DM-DCC-B
Device Management-TimeSynchronization-B	DM-TS-B
Device Management-UTCTimeSynchronization-A	DM-UTC-A
Device Management-UTCTimeSynchronization-B	DM-UTC-B
Device Management-ReinitializeDevice-B	DM-RD-B
Device Management-Backup and Restore-B	DM-BR-B
Device Management-Restart-B	DM-R-B
Device Management-List Manipulation-B	DM-LM-B
Device Management-Object Creation and Deletion-B	DM-OCD-B

3.5 Network Management BIBBs

Network Management-Connection Establishment-A	NM-CE-A
Network Management-Connection Establishment-B	NM-CE-B
Network Management-Router Configuration-A	NM-RC-A
Network Management-Router Configuration-B	NM-RC-B

4. Segmentation Capability:

- Segmented requests supported Window Size 16
- Segmented responses supported Window Size 16

5. Standard Object Types Supported:

5.1 Standard Object Types Supported: Accumulator-Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description Device_Type Reliability Prescale Value_Change_Time Value_Before_Change Value_Set Logging_Object Pulse_Rate High_Limit Low_Limit Limit_Monitoring_Interval Notification_Class Time_Delay Limit_Enable Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Event_Message_Texts	Present_Value Description Reliability Out_Of_Service Value_Set Logging_Object Pulse_Rate High_Limit Low_Limit Limit_Monitoring_Interval Notification_Class Time_Delay Limit_Enable Event_Enable Notify_Type	

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5.2 Standard Object Types Supported: Analog-Input-Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description Device_Type Reliability Update_Interval Min_Pres_Value Max_Pres_Value Resolution COV_Increment Time_Delay Notification_Class High_Limit Low_Limit Deadband Limit_Enable Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Event_Message_Texts	Description Reliability Out_Of_Service COV_Increment Time_Delay Notification_Class High_Limit Low_Limit Deadband Limit_Enable Event_Enable Notify_Type	

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5.3 Standard Object Types Supported: Analog-Output-Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description Device_Type Reliability Min_Pres_Value Max_Pres_Value Resolution COV_Increment Time_Delay Notification_Class High_Limit Low_Limit Deadband Limit_Enable Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Event_Message_Texts	Present_Value Description Reliability Out_Of_Service Relinquish_Default COV_Increment Time_Delay Notification_Class High_Limit Low_Limit Deadband Limit_Enable Event_Enable Notify_Type	

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5.4 Standard Object Types Supported: Analog-Value-Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description Reliability Priority_Array Relinquish_Default COV_Increment Time_Delay Notification_Class High_Limit Low_Limit Deadband Limit_Enable Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Event_Message_Texts	Present_Value Description Reliability Out_Of_Service Relinquish_Default COV_Increment Time_Delay Notification_Class High_Limit Low_Limit Deadband Limit_Enable Event_Enable Notify_Type	

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5.5 Standard Object Types Supported: Averaging Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description Minimum_Value_Timestamp Maximum_Value_Timestamp Variance_Value	Description Attempted_Samples Valid_Samples Object_Property_Reference Window_Interval Window_Samples	

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5.6 Standard Object Types Supported: Binary-Input-Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description Device_Type Reliability 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 Event_Message_Texts	Present_Value Description Reliability 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	

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5.7 Standard Object Types Supported: Binary-Output-Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description Device_Type Reliability 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 Minimum_Off_Time Minimum_On_Time Time_Delay Notification_Class Feedback_Value Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Event_Message_Texts	Present_Value Description Reliability Out_Of_Service Polarity Inactive_Text Active_Text Change_Of_State_Count Elapsed_Active_Time Minimum_Off_Time Minimum_On_Time Relinquish_Default Time_Delay Notification_Class Event_Enable Notify_Type	

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5.8 Standard Object Types Supported: Binary-Value-Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description Reliability 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 Minimum_Off_Time Minimum_On_Time Priority_Array Relinquish_Default Time_Delay Notification_Class Alarm_Value Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Event_Message_Texts	Present_Value Description Reliability Out_Of_Service Inactive_Text Active_Text Change_Of_State_Count Elapsed_Active_Time Minimum_Off_Time Minimum_On_Time Relinquish_Default Time_Delay Notification_Class Alarm_Value Event_Enable Notify_Type	

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5.9 Standard Object Types Supported: Calendar-Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description	Description Date_List	

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5.10 Standard Object Types Supported: Command

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description Action_Text	Description Present_Value Action Action_Text	

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5.11 Standard Object Types Supported: Device-Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Location Description Structured_Object_List Max_Segments_Accepted Local_Time Time Local_Date Date UTC_Offset Daylight_Savings_Status Location Description APDU_Segment_Timeout Time_Synchronization_Recipients Configuration_Files Last_Restore_Time Backup_Failure_Timeout Active_COV_Subscriptions List Last_Restart_Reason Time_Of_Device_Restart Restart_Notification_Recipients UTC_Time_Synchronization_Recipients Time_Synchronization_Interval	Location Description Backup_Failure_Timeout UTC_Time_Synchronization_Recipients	

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5.12 Standard Object Types Supported: Event Enrollment Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description Event_Message_Texts	Description Event_Type Notify_Type Event_Parameters Object_Property_Reference Event_Enable Notification_Class	

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5.13 Standard Object Types Supported: File

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description	Archive	

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5.14 Standard Object Types Supported: Group

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description	Description List_Of_Group_Members	

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5.15 Standard Object Types Supported: Loop

- Dynamically creatable
- Dynamically deletable

Optional properties	Writeable properties	Proprietary Properties
Description Reliability Update_Interval Proportional_Constant Proportional_Constant_Units Integral_Constant Integral_Constant_Units Derivative_Constant Derivative_Constant_Units Bias Maximum_Output Minimum_Output COV_Increment Time_Delay Notification_Class Error_Limit Deadband Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Event_Message_Texts	Present_Value Description Reliability Out_Of_Service Update_Interval Output_Units Manipulated_Variable_Reference Controlled_Variable_Reference Controlled_Variable_Units Setpoint_Reference Action Proportional_Constant Proportional_Constant_Units Integral_Constant Integral_Constant_Units Derivative_Constant Derivative_Constant_Units Bias Maximum_Output Minimum_Output Priority_For_Writing COV_Increment Time_Delay Notification_Class Error_Limit Deadband Event_Enable Notify_Type	

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5.16 Standard Object Types Supported: Multistate-Input-Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description Device_Type Reliability State_Text Time_Delay Notification_Class Alarm_Values Fault_Values Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Event_Message_Texts	Present_Value Description Reliability Out_Of_Service Number_Of_States State_Text Time_Delay Notification_Class Alarm_Values Fault_Values Event_Enable Notify_Type	

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5.17 Standard Object Types Supported: Multistate-Output-Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description Device_Type Reliability State_Text Time_Delay Notification_Class Feedback_Value Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Event_Message_Texts	Present_Value Description Reliability Out_Of_Service Number_Of_States State_Text Relinquish_Default Time_Delay Notification_Class Event_Enable Notify_Type	

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5.18 Standard Object Types Supported: Multistate-Value-Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
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 Event_Message_Texts	Present_Value Description Reliability Out_Of_Service Number_Of_States State_Text Relinquish_Default Time_Delay Notification_Class Alarm_Values Fault_Values Event_Enable	

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5.19 Standard Object Types Supported: Notification Class Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description	Description Priority Ack_Required Recipient_List	

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5.20 Standard Object Types Supported: Program

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description Reason_For_Halt Description_Of_Halt Program_Location Instance_Of Reliability	Description Program_Change Program_Location Instance_Of	

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5.21 Standard Object Types Supported: Pulse Converter

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description Input_Reference Reliability COV_Increment COV_Period Notification_Class Time_Delay High_Limit Low_Limit Deadband Limit_Enable Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Event_Message_Texts	Description Present_Value Input_Reference Reliability Out_Of_Service Scale_Factor Adjust_Value COV_Increment COV_Period Notification_Class Time_Delay High_Limit Low_Limit Deadband Limit_Enable Event_Enable Notify_Type	

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5.22 Standard Object Types Supported: Schedule Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description Weekly_Schedule Exception_Schedule	Present_Value Description Effective_Period Weekly_Schedule Exception_Schedule Schedule_Default List_Of_Object_Property_References Priority_For_Writing Reliability Out_Of_Service	

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5.23 Standard Object Types Supported: Trendlog Object

- Dynamically creatable
- Dynamically deletable

Optional properties	Writeable properties	Proprietary Properties
Description Start_Time Stop_Time Log_DeviceObjectProperty Log_Interval COV_Resubscription_Interval Client_COV_Increment Notification_Threshold Records_Since_Notification Last_Notify_Record Notification_Class Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Event_Message_Texts Align_Intervals Interval_Offset Trigger Reliability	Description Enable Start_Time Stop_Time Log_DeviceObjectProperty Log_Interval COV_Resubscription_Interval Client_COV_Increment Stop_When_Full Buffer_Size Record_Count Notification_Threshold Notification_Class Event_Enable Notify_Type Logging_Type Align_Intervals Interval_Offset Trigger	

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5.24 Standard Object Types Supported: Event Log Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description Reliability Start_Time Stop_Time Notification_Threshold Records_Since_Notification Last_Notify_Record Notification_Class Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Event_Message_Texts	Description Enable Start_Time Stop_Time Stop_When_Full Buffer_Size Record_Count Notification_Threshold Notification_Class Event_Enable Notify_Type	

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5.25 Standard Object Types Supported: Structured View Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description Node_Subtype Subordinate_Annotations	Description Node_Type Node_Subtype Subordinate_List Subordinate_Annotations	

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5.26 Standard Object Types Supported: Trendlog Multiple Object

- Dynamically creatable
- Dynamically deleteable

Optional properties	Writeable properties	Proprietary Properties
Description Reliability Start_Time Stop_Time Align_Intervals Interval_Offset Trigger Notification_Threshold Records_Since_Notification Last_Notify_Record Notification_Class Event_Enable Aked_Transitions Notify_Type Event_Time_Stamps Event_Message_Texts	Description Enable Start_Time Stop_Time Log_DeviceObjectProperty Logging_Type Log_Interval Align_Intervals Interval_Offset Trigger Stop_When_Full Buffer_Size Record_Count Notification_Threshold Notification_Class Event_Enable Notify_Type	

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6. 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

7. Data Link Layer Options:

- BACnet IP, (Annex J)
 - BACnet IP, (Annex J), Foreign Device
 - ISO 8802-3, Ethernet (Clause 7)
 - ASTM 878.1, 2.5 Mb. ARCNET (Clause 8)
 - ASTM 878.1, RS-485 ARCNET (Clause 8) baud rate(s) _____
 - MS/TP^{*1} master (Clause 9), baud rate(s): 9600, 19200, 38400, 115200
 - MS/TP slave (Clause 9), baud rate(s): _____
 - Point-To-Point, EIA 232 (Clause 10), baud rate(s): max. EIA 232
 - Point-To-Point, modem, (Clause 10), baud rate(s): 115200 baud / max. modem
 - LonTalk, (Clause 11), medium: _____
 - Other: _____
- (*1Without MS/TP Option)

8. Networking Options:

- Router, Clause 6
 - BACnet/IP – BACnet/MSTP
 - BACnet/MSTP – BACnet/MSTP
- Annex H, BACnet Tunneling Router over IP
- BACnet Broadcast Management Device (BBMD)
 - Does the BBMD support registrations by Foreign Devices? Yes No

9. Character Sets Supported:

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

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> ANSI X3.4 | <input type="checkbox"/> IBM™/Microsoft™ DBCS | <input checked="" type="checkbox"/> ISO 8859-1 |
| <input type="checkbox"/> ISO 10646 (UCS-2) | <input type="checkbox"/> ISO 10646 (ICS-4) | <input type="checkbox"/> JIS C 6226 |