

Saia-Burgess Controls AG

Visi.Plus Protocol Implementation Conformance Statement (PICS)

Version 3.0 / 16.12.2015

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0.1 Dokument Revision

Date	Author	Version	Revision informations
2015-03-31	Z. Sulc	EN01	Initial release
2015-05-04	Th. Hartmann	EN02	Minor changes
2015-12-16	Z. Sulc	EN03	Minor changes

0.2 Trademarks

Saia PCD® is a registered trademark of Saia-Burgess Controls AG.

Technical changes are subject to the state of technology.

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BACnet Protocol Implementation Conformance Statement (PICS)

Date: 16.12.2015
Vendor Name: Saia-Burgess Controls AG (Vendor ID = 89)
Product Names: Visi.Plus
Product Model Number: -
Applications Software Version: -
Version / Revision: 1.7.103

BACnet Protocol Revision: 1.7 (BACnet ANSI/ASHRAE 135-2008)

1. Product Description

BACnet-Driver program is used to exchange the BACnet data with the Saia Visi.Plus-System (Building Control System).
It receives (via COV / COVP) or reads / polls data from BACnet network and writes the data automatically into Visi.Plus and vice versa.

The client implementation is based on Cimetrics BACstac (version 6.2f, 6.4).

2. BACnet Standardized Device Profile (Annex L)

- BACnet Advanced Operator Workstation (B-AWS)
- BACnet Operator Workstation (B-OWS)
- 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)

*Not fully supported yet nor certified

3. List all BACnet Interoperability Building Blocks Supported (Annex K)

3.1 Data Sharing

- 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-WP-A Data Sharing – Write Property – A
- DS-WP-B Data Sharing – Write Property – B
- DS-WPM-A Data Sharing – Write Property Multiple
- A DS-COV-A Data Sharing – COV – A
- DS-AV-A Data Sharing – Advanced View – A
- DS-AM-A Data Sharing – Advanced Modify – A

3.2 Alarm and Event Management

- AE-N-A Alarm and Event – Notification – A
- AE-ACK-A Alarm and Event – ACK – A
- AE-ELVM-A Alarm and Event – Event Log View and Modify – A
- AE-AVN-A Alarm and Event – Advanced View Notification – A
- AE-AVM-A Alarm and Event – Advanced View Modify – A
- AE-AS-A Alarm Summary View – A (AE-AS-A)
- AE-ASV-A Alarm and Event – Alarm Summary View – A
- AE-ELV-A Alarm and Event – Event Log View – A
- AE-VN-A Alarm and Event – View Notification – A

3.3 Scheduling

- ¹⁾ SCHED-AVM-A Scheduling – Advanced View Modify – A
 - ¹⁾ SCHED-VM-A Scheduling – View Modify – A
- ¹⁾Only Schedule Objects;
Calendar Objects NOT supported yet (Development / Testing on Roadmap 2016)

3.4 Trending

- T-V-A Trending – Viewing – A
- T-AVM-A Trending – Advanced View and Modify – A
- T-ATR-A Trending – Automated Trend Retrieval – A
- T-AMVR-A Trending – Automated Multiple Value Retrieval – A

3.5 Device & Network Management

- DM-DDB-A Device Management – Dynamic Device Binding – A
- DM-DDB-B Device Management – Dynamic Device Binding – B
- DM-DOB-A Device Management – Dynamic Object Binding – A
- DM-DOB-B Device Management – Dynamic Object Binding – B
- DM-ADM-A Device Management – Automatic Device Mapping – A
- DM-ANM-A Device Management – Automatic Network Mapping – A
- DM-MTS-A Device Management – Manual Time Synchronization – A
- DM-ATS-A Device Management – Automated Time Synchronization – A
- DM-DCC-A Device Management – Device Communication Control – A
- DM-RD-A Device Management – Reinitialize Device – A
- DM-BR-A Device Management – Backup and Restore – A
- DM-OCD-A Device Management – Object Creation and Deletion – A
- DM-LM-A Device Management – List Manipulation – A
- DM-LM-B Device Management – List Manipulation – B

4. Data Link Layer Options

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), 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), any baud rate
- 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), any medium

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5. Network Options

- Router, Clause 6 – List all routing configurations
- BACnet Tunneling Router over IP (Annex H)
- BACnet/IP Broadcast Management Device (BBMD)

6. Character Sets Supported

Supports following character sets:

- ISO 10646 (UTF-8)
- IBM/Microsoft DBCS
- ISO 8859-1
- ISO 10646 (UCS-2)
- ISO 10646 (UCS-4)
- JIS C 6226

7. Standard Object Types Supported

Object	Supported	Addressable Properties
Analog Input	YES	ALL
Analog Output	YES	ALL
Binary Input	YES	ALL
Binary Output	YES	ALL
Binary Value	YES	ALL
Command	YES	ALL
Device	YES	ALL
Multistate Input	YES	ALL
Multistate Output	YES	ALL
Multistate Value	YES	ALL
Notification Class	YES	ALL
Program	YES	ALL
Schedule	YES	ALL
File	YES	ALL
Loop	YES	ALL
Trend Log	YES	ALL

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8. Communication Gateway

In conjunction with other communication drivers of Saia Visi.Plus (e.g. OPC DA, S-Bus, SNMP) and the integrated Software PLC functionality, foreign networks and devices can be supported and integrated.

A Annex

A.1 Contact

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