

Dokumentationen für BACnet-Geräte - PICS

Annex A Protocol Implementation Conformance Statement (PICS) mit deutschen Begriffen

Date (Datum):	15.04.2013
Vendor Name (Hersteller):	INGA mbH (Vendor Identification 275)
Product Name (Produktname):	intelli bms (iBMS)
Product Model Number (Typ Nummer):	v4.0.0.2751
Applications Software Version (Software Version):	v10.0.14.2751
Firmware Revision (Systemsoftware Version):	---
BACnet Protocol Revision (BACnet Protokoll Stand):	2010

1. Product Description (Produktbeschreibung):

INGA IBMS is a building management system for automation-systems from all areas of building automation. IBMS is designed as native BACnet Advanced Workstation. Data Sharing, scheduling and trending services are fully integrated. The implementation of the BACnet protocol is based on Cimetrix BACstac.

2. BACnet Standardized Device Profile (Annex L) (Standard-Geräteprofil):

- 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)

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

(Liste aller unterstützter BIBBs):

Data Sharing BIBBs (Objektzugriff, Datenaustausch, gemeinsame Datennutzung)		
1	DS-RP-A	ReadProperty-A
2	DS-RP-B	ReadProperty-B
3	DS-RPM-A	ReadProperty Multiple-A
4	DS-RPM-B	ReadProperty Multiple-B
7	DS-WP-A	WriteProperty-A
9	DS-WPM-A	WriteProperty Multiple-A
11	DS-COV-A	COV-Support-A
13	DS-COVP-A	COV-Property-A
15	DS-COVU-A	COV-Unsolicited-A
18	DS-AV-A	Data Sharing-Advanced View-A
20	DS-AM-A	Data Sharing-Advanced Modify-A
Alarm and Event Management BIBBs (Alarm-und Ereignisverarbeitung)		
21	AE-N-A	Alarm and Event-Notification-A
24	AE-ACK-A	Alarm and Event-ACK-A
35	AE-AVN-A	Alarm and Event-Advanced View Notifications-A
37	AE-AVM-A	Alarm and Event-Advanced View and Modify-A
38	AE-AS-A	Alarm and Event-Alarm Summary View-A
40	AE-ELVM-A	Alarm and Event-Event LogView and Modify-A
Scheduling BIBBs (Zeitplan-und Zeitprogrammaustausch)		
46	SCHED-AVMA	Scheduling-Advanced View and Modify-A
Trending BIBBs (Trendaufzeichnung)		
61	T-AVM-A	Trending-Advanced View and Modify-A
62	T-A-A	Trending-Archival-A

Device and Network Management BIBBs (Geräte-und Netzwerk-Management)		
63	DM-DDB-A	Dynamic-Device-Binding-A
64	DM-DDB-B	Dynamic-Device-Binding-B
66	DM-DOB-B	Dynamic-Object-Binding-B
67	DM-DCC-A	DeviceCommunicationControl-A
75	DM-UTC-A	UTCTimeSynchronization-A
77	DM-RD-A	Reinitialize Device-A
79	DM-BR-A	Backup and Restore-A
81	DM-R-A	Restart-A
83	DM-LM-A	List Manipulation-A
85	DM-OCD-A	Object Creation and Deletion-A
93	DM-ANM-A	Device Management-Automatic Network Mapping-A
94	DM-ADM-A	Device Management-Automatic Device Mapping-A
96	DM-MTS-A	Device Management-Manual Time Synchronization-A

4. Segmentation Capability (Unterstützte Segmentierung):

- Segmented requests supported Windows Size: 16
 (Segmentierte Anfragen werden unterstützt)
- Segmented responses supported Windows Size: 16
 (Segmentierte Antworten werden unterstützt)

5. Standard Object Types Supported (unterstützte Standard-Objektypen):

The following object types are supported and present in the device. Each Standard Object Type is supported with following data (Nachfolgende Objektypen werden unterstützt und sind Bestandteil des Gerätes. Jeder Standard- Objektyp wird mit folgenden Daten unterstützt):

Object-Type	Object-Type Supported	Dynamically Creatable	Dynamically Deletable	Optional Properties Supported	Writeable Properties Where Not Required	Conditionally Writeable Properties Where Not Required	Proprietary Properties	Property Range Restrictions
Analog Input	Yes	No	No	All	All		---	None
Analog Output	Yes	No	No	All	All		---	None
Analog Value	Yes	No	No	All	All		---	None
Binary Input	Yes	No	No	All	All		---	None
Binary Output	Yes	No	No	All	All		---	None
Binary Value	Yes	No	No	All	All		---	None
Calendar	Yes	Yes	Yes	All	All		---	None
Device	Yes	No	No	All	All		---	None
Event Enrollment	Yes	Yes	Yes	All	All		---	None
File	Yes	No	No	All	All		---	None
Loop	Yes	No	No	All	All		---	None
Multi-State Input	Yes	No	No	All	All		---	None
Multi-State Output	Yes	No	No	All	All		---	None
Multi-State Value	Yes	No	No	All	All		---	None
Notification Class	Yes	Yes	Yes	All	All		---	None
Schedule	Yes	Yes	Yes	All	All		---	None
Trendlog	Yes	Yes	Yes	All	All		---	none

6. Data Link Layer Options (Netzwerkoptionen):

- 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:

7. Device Address Binding (Einbindung der Geräteadresse):

Is static device binding supported? (This is currently necessary for two-way communication with MS/TP slaves and certain other devices.)

(Wird statische Geräteeinbindung unterstützt? Dies ist derzeit notwendig für bidirektionale Verbindungen mit MS/TP Slaves und bestimmten anderen Geräten.)

- Yes No

8. Networking Options (Routeroptionen):

- Router, Clause 6 - List all routing configurations, e.g. ARCNET-Ethernet, Ethernet-MS/TP
- Annex H, BACnet Tunneling Router over IP
- BACnet/IP Broadcast Management Device (BBMD)
 - Does the BBMD support registrations by Foreign Devices? Yes No
(Unterstützt das BBMD-Gerät die Registrierung durch externe Geräte?)
 - Does the BBMD support network address translation? Yes No
(Unterstützt das BBMD-Gerät Network Address Translation?)

9. Network Security Options: (Netzwerk Sicherheits Optionen)

- 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)

10. Character Sets Supported (Unterstützte Zeichensätze):

Indicating support for multiple character sets does not imply that they can all be supported simultaneously. (Der Verweis auf mehrere Zeichensätze bedeutet nicht deren gleichzeitige Nutzung.)

- | | | |
|-----------------------------------------------|-----------------------------------------------|------------------------------------------------|
| <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 (UCS-4) | <input type="checkbox"/> JIS C 6226 |
| <input type="checkbox"/> ISO 10646 (UTF-8) | <input type="checkbox"/> JIS X 0208 | |

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

(Falls das Produkt ein Gateway ist, werden die unterstützten, nicht BACnet-spezifischen Netzwerk und Geräteeigenschaften nachfolgend beschrieben):