

# BACnet Protocol Implementation Conformance Statement (PICS)

## Product

Product	Model No	Protocol Revision	Software Version	Date Tested
CXS BACnet DAS	CXS-BACnet DAS	135-2008	4.0	1 <sup>st</sup> January 2012

## Vendor Information

ConneXSoft GmbH

Lohenstrasse 4

D-82166 Graefelfing Germany

<http://www.connexsoft.com>

## Product Description

The CXS BACnet DA Server acts as a native BACnet device to participate in BACnet networks and provides data access related services for the Wonderware System Platform as well as OPC clients.

## BACnet Standardized Device Profiles

BACnet Operator Workstation (B-OWS)

## Supported BIBBS

Category	Supported BIBBs	BIBB name
<b>Data Sharing</b>		
	DS-RP-A, B	Read Property-A & B
	DS-RPM-A	Read Property Multiple-A
	DS-WP-A	Write Property-A
	DS-WPM-A	Write Property Multiple-A
	DS-V-A	View-A
	DS-M-A	Modify-A
	DS-COV-A	Change of Value-A
<b>Alarm &amp; Event Mngt</b>		
	AE-N-A	Alarm and Event Notification-A
	AE-ACK-A	Notification – Acknowledgement-A
	AE-AS-A	Alarm Summary View-A
	AE-VM-A	View and Modify-A
	AE-VN-A	View Notifications-A
<b>Scheduling</b>		
	SCHED-VM-A	Scheduling-A
<b>Trending</b>		
	T-V-A	View-A
<b>Device &amp; Network Mngt</b>		
	DM-DDB-A, B	Dynamic Device Binding-A & B
	DM-DOB-B	Dynamic Object Binding-B
	DM-MTS-A	Manual Time Synchronization-A

## Standard Object Types Supported

Object Type	ID	Required Properties Supported	Optional Properties Supported	Create/Delete
Analog Input	0	All	0 acked transitions 17 notification class 22 cov increment 25 deadband 31 device type 35 event enable 45 high limit 52 limit enable 59 low limit 65 max pres value 69 min pres value 72 notify type 103 reliability 106 resolution 113 time delay 118 update interval 130 event time stamps 168 profile name	
Analog Output	1	All	0 acked transitions 17 notification class 22 cov increment 25 deadband 31 device type 35 event enable 45 high limit 52 limit enable 59 low limit 65 max pres value 69 min pres value 72 notify type 103 reliability 104 relinquish default 106 resolution 113 time delay 130 event time stamps 168 profile name	
Analog Value	2	All	0 acked transitions 17 notification class 22 cov increment 25 deadband 35 event enable 45 high limit 52 limit enable 59 low limit 72 notify type 87 priority array 103 reliability 104 relinquish default 113 time delay 130 event time stamps 168 profile name	

Object Type	ID	Required Properties Supported	Optional Properties Supported	Create/Delete
Binary Input	3	All	0 acked transitions 4 active text 15 change of state count 16 change of state time 17 notification class 31 device type 33 elapsed active time 35 event enable 46 inactive text 72 notify type 103 reliability 113 time delay 114 time of active time reset 115 time of state count reset 130 event time stamps 168 profile name	
Binary Output	4	All	0 acked transitions 4 active text 15 change of state count 16 change of state time 17 notification class 31 device type 33 elapsed active time 35 event enable 46 inactive text 66 minimum off time 67 minimum on time 72 notify type 103 reliability 104 relinquish default 113 time delay 114 time of active time reset 115 time of state count reset 130 event time stamps 168 profile name	
Binary Value	5	All	0 acked transitions 4 active text 15 change of state count 16 change of state time 17 notification class 33 elapsed active time 35 event enable 46 inactive text 66 minimum off time 67 minimum on time 72 notify type 87 priority array 103 reliability 104 relinquish default 113 time delay 114 time of active time reset 115 time of state count reset 130 event time stamps 168 profile name	
Calendar	6	All	168 profile name	
Command	7	All except: 2 action	168 profile name	

Object Type	ID	Required Properties Supported	Optional Properties Supported	Create/Delete
Device	8	All	10 apdu segment timeout 11 apdu timeout 24 daylight savings status 56 local date 57 local time 58 location 76 object list 119 utc offset 153 backup failure timeout 167 max segments accepted 168 profile name	
Event Enrollment	9	All	168 profile name	
File	10	All except: 13 archive 41 file access method 43 file type 42 file size 71 modification date 99 read only	168 profile name	
Loop	12	All except: 2 action 9 controlled variable reference 21 controlled variable value 20 controlled variable units 60 manipulated variable ref 82 output units 109 setpoint reference	0 acked transitions 17 notification class 22 cov increment 34 error limit 35 event enable 72 notify type 103 reliability 113 time delay 118 update interval 130 event time stamps 168 profile name	
Multi State Input	13	All	0 acked transitions 17 notification class 31 device type 35 event enable 39 fault values 72 notify type 103 reliability 110 state text 113 time delay 130 event time stamps 168 profile name	
Multi State Output	14	All	0 acked transitions 17 notification class 31 device type 35 event enable 72 notify type 103 reliability 104 relinquish default 110 state text 113 time delay 130 event time stamps 168 profile name	
Notification Class	15	All except: 1 ack required 102 recipient list	168 profile name	
Program	16	All	103 reliability 168 profile name	
Schedule	17	All	38 exception schedule 123 weekly schedule 168 profile name	

Object Type	ID	Required Properties Supported	Optional Properties Supported	Create/Delete
Averaging	18	All except: 124 attempted samples 146 valid samples 147 window interval 148 window samples	168 profile name	
Multi State Value	19	All	0 acked transitions 17 notification class 35 event enable 39 fault values 72 notify type 87 priority array 103 reliability 104 relinquish default 110 state text 113 time delay 130 event time stamps 168 profile name	
Trend Log	20	All	0 acked transitions 17 notification class 35 event enable 72 notify type 103 reliability 130 event time stamps 132 log device object 134 log interval 137 notification threshold 140 records since notification 142 start time 143 stop time 168 profile name 173 last notify time	
Accumulator	23	All	0 acked transitions 17 notification class 31 device type 35 event enable 45 high limit 52 limit enable 72 notify type 103 reliability 113 time delay 130 event time stamps 182 limit monitoring interval 186 pulse rate 190 value before change 191 value set	
Pulse Converter	24	All	0 acked transitions 17 notification class 22 cov increment 25 deadband 35 event enable 45 high limit 52 limit enable 59 low limit 72 notify type 103 reliability 113 time delay 130 event time stamps	

Object Type	ID	Required Properties Supported	Optional Properties Supported	Create/Delete
Event Log	25	All	0 acked transitions 17 notification class 35 event enable 72 notify type 103 reliability 130 event time stamps 137 notification threshold 140 records since notification 142 start time 143 stop time 168 profile name 173 last notify time	
Trend Log Multiple	27	All	0 acked transitions 17 notification class 35 event enable 72 notify type 103 reliability 130 event time stamps 137 notification threshold 140 records since notification 142 start time 143 stop time 168 profile name 173 last notify time	
Load Control	28	All except: 212 actual shed level 214 expected shed level 218 requested shed level 220 shed level descriptions 221 shed levels 223 fade time	0 acked transitions 17 notification class 35 event enable 72 notify type 103 reliability 113 time delay 130 event time stamps 222 state description	

## Segmentation Capability

Segmentation Type	Supported	Window Size
Able to transmit segmented messages	Yes	1
Able to receive segmented messages	Yes	dynamic

## Data Link Layer Options

Data Link	Options
BACnet/IP (Annex J)	Can communicate directly as a BACnet/IP device. Can register as a Foreign BACnet/IP device
Ethernet (ISO 8802-3)	Can communicate directly BACnet Ethernet device. Can register as a Foreign BACnet Ethernet device

## Device Address Binding

Static Binding Supported	Yes
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## Character Sets

Character Sets supported
ANSI X3.4 IBM DBCS ISO 8859-1