



Protocol Implementation Conformance Statement

Aspect[®]

Date	June 2016
Vendor Name	Cylon Controls
Product Name:	Aspect [®]
Product Model Number:	ASP-ENT-xxx, ASP-NEX-xxx, ASP-NEX2-xxx, ASP-MAX-xxx, (-xxx indicates model option or feature)
Firmware Revision:	v3.00.00 or later
BACnet Protocol Revision:	9

Product Description

Aspect is a Building Automation Integration and Energy Control Solution designed to allow seamless access to building data through common and convenient web technologies available on a wide array of generally available devices. Aspect brings building information and control into the palm of any user's hand through integration with services like Twitter[®], RSS, email, Google Calendar[™], Microsoft[®] Outlook[®], and Apple[®] iCal[®]. Through compatibility with common web platforms and the BACnet protocol, you can access your building in a variety of ways from a variety of devices. In many cases Aspect will integrate with your current computer or smart device through programs already on those devices.

BACnet Standardised Device Profile (Annex L)

- ☐ BACnet Operator Workstation (B-AWS)
- ☒ BACnet Operator Workstation (B-OWS) – BTL Approval Pending
- ☐ 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 Other (B-OTHER)

BACnet Interoperability Building Blocks Supported:

ID	BIBB	Application Service
K.1.1	DS-RP-A	Data Sharing – ReadProperty-A
K.1.2	DS-RP-B	Data Sharing – ReadProperty-B
K.1.4	DS-RPM-B	Data Sharing – ReadPropertyMultiple-B
K.1.7	DS-WP-A	Data Sharing – WriteProperty-A
K.1.8	DS-WP-B	Data Sharing – WriteProperty-B
	DS-V-A	Data Sharing – View-A
	DS-M-A	Data Sharing – Modify-A
K.3	SCHED-VM-A	Scheduling – View and Modify-A
K.5.1	DM-DDB-A	Device Management – Dynamic Device Binding-A
K.5.2	DM-DDB-B	Device Management – Dynamic Device Binding-B
K.5.11	DM-TS-A	Device Management – TimeSynchronization-A
K.5.12	DM-TS-B	Device Management – TimeSynchronization-B
K.5.14	DM-UTC-B	Device Management – UTCTimeSynchronization-B
	DM-ATS-A	Device Management – Automatic Time Synchronization-A
	DM-PT-A	Device Management – Private Transfer-A
	DM-PT-B	Device Management – Private Transfer-B
K.5.30	NM-RC-B	Network Management-Router Configuration-B

Segmentation Capability

- ☐ Able to transmit segmented messages
- ☐ Able to receive segmented messages

Window Size: N/A

Window Size: N/A

Standard Object Types Supported:

- ☐ access-door
- ☐ accumulator
- ☐ analog-input
- ☐ analog-output
- ☐ analog-value
- ☐ averaging
- ☐ binary-input
- ☐ binary-output
- ☐ binary-value
- ☐ calendar
- ☐ command
- ☒ **device**
- ☐ event-enrollment
- ☐ event-log
- ☐ file
- ☐ group
- ☐ life-safety-point
- ☐ life-safety-zone
- ☐ load-control
- ☐ loop
- ☐ multi-state-input
- ☐ multi-state-output
- ☐ multi-state-value
- ☐ notification-class
- ☐ program
- ☐ pulse-converter
- ☐ schedule
- ☐ structured-view
- ☐ trend-log
- ☐ trend-log-multiple

For each of these objects, the supported properties are listed below:

device

☐ Dynamically Creatable

☐ Dynamically Deletable

Property	Read	Write	optional
object-identifier	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
object-name	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
object-type	<input checked="" type="checkbox"/>		
system-status	<input checked="" type="checkbox"/>		
vendor-name	<input checked="" type="checkbox"/>		
vendor-identifier	<input checked="" type="checkbox"/>		
model-name	<input checked="" type="checkbox"/>		
firmware-revision	<input checked="" type="checkbox"/>		
application-software-version	<input checked="" type="checkbox"/>		
protocol-version	<input checked="" type="checkbox"/>		
protocol-revision	<input checked="" type="checkbox"/>		
protocol-services-supported	<input checked="" type="checkbox"/>		
protocol-object-types-supported	<input checked="" type="checkbox"/>		
object-list	<input checked="" type="checkbox"/>		
max-apdu-length-accepted	<input checked="" type="checkbox"/>		
segmentation-supported	<input checked="" type="checkbox"/>		
local-time	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
local-date	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
utc-offset	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
daylight-savings-status	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
apdu-timeout	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
number-of-apdu-retries	<input checked="" type="checkbox"/>		
utc-time-synchronization-recipients	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
configuration-files	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
last-restore-time	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
backup-failure-timeout	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
device-address-binding	<input checked="" type="checkbox"/>		
database-revision	<input checked="" type="checkbox"/>		
active-cov-subscriptions	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
profile-name	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

Data Link Layer Options:

- ☒ 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) : N/A
- ☒ MS/TP master (Clause 9), baud rate(s): 9.6k, 19.2k, 38.4k, 76.8k
- ☐ MS/TP slave (Clause 9), baud rate(s): N/A
- ☐ Point-To-Point, EIA 232 (Clause 10), baud rate(s): N/A
- ☐ Point-To-Point, modem, (Clause 10), baud rate(s): N/A
- ☐ LonTalk, (Clause 11), medium: N/A
- ☐ Other: N/A

Device Address Binding:

Is static device binding supported? ☒ Yes ☐ No

(This is currently necessary for two-way communication with MS/TP slaves and certain other devices.)

Networking Options:

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

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 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 |

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

N/A. This product does not support gateway functionality for any types of non-BACnet equipment/network(s).