



Date: April 25, 2013
Vendor Name: Delta Controls Inc.
Product Name: enteliZONE
Product Model Number: eZFC-424R4
Product Version: 3.40
BACnet Protocol Revision: 9

Product Description

enteliZONE is a family of Delta controllers for HVAC zone applications. While there are multiple models in the enteliZONE family they all share a common firmware and feature set. They typically differ only in the types and amount of IO supported. Unless otherwise noted all models support all the BACnet capabilities indicated.

Product Description	Product Model	Device Profile			Ethernet & IP
		ASC	AAC	BC	
enteliZONE Fan Coil	eZFC-424R4	✓			

BACnet Standardized Device Profile (Annex L):

NOTES

- 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 Interoperability Building Blocks Supported (Annex K):

BACnet Interoperability Building Block	Supported
Data Sharing	
Data Sharing-ReadProperty-A (DS-RP-A)	✓
Data Sharing-ReadProperty-B (DS-RP-B)	✓
Data Sharing-ReadPropertyMultiple-B (DS-RPM-B)	✓
Data Sharing-WriteProperty-A (DS-WP-A)	✓
Data Sharing-WriteProperty-B (DS-WP-B)	✓
Data Sharing-COV-B (DS-COV-B)	✓
Data Sharing-COV-Unsolicited-B (DS-COVU-B)	✓
Data Sharing-ReadRange-B (DS-RR-B)	✓
Scheduling	
Scheduling-Weekly Schedule-Internal-B (SCHED-WS-I-B)	✓
Trending	
Trending-Viewing and Modifying Trends-Internal-B (T-VMT-I-B)	✓
Alarm and Event Management	
Alarm and Event-Notification Internal-B (AE-N-I-B)	✓
Alarm and Event-Information-B (AE-INFO-B)	✓



Delta enteliZONE Controller Family- 3.40 Firmware
BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT

BACnet Interoperability Building Block	Supported
Device Management	
Device Management-Dynamic Device Binding-A (DM-DDB-A)	<input checked="" type="checkbox"/>
Device Management-Dynamic Device Binding-B (DM-DDB-B)	<input checked="" type="checkbox"/>
Device Management-Dynamic Object Binding-B (DM-DOB-B)	<input checked="" type="checkbox"/>
Device Management-DeviceCommunicationControl-B (DM-DCC-B)	<input checked="" type="checkbox"/>
Device Management-Private Transfer-A (DM-PT-A)	<input checked="" type="checkbox"/>
Device Management-Private Transfer-B (DM-PT-B)	<input checked="" type="checkbox"/>
Device Management-TimeSynchronization-B (DM-TS-B)	<input checked="" type="checkbox"/>
Device Management-ReinitializeDevice-B (DM-RD-B)	<input checked="" type="checkbox"/>
Device Management-Backup and Restore-B (DM-BR-B)	<input checked="" type="checkbox"/>
Device Management-Object Creation and Deletion-B (DM-OCD-B)	<input checked="" type="checkbox"/>

Segmentation Capability:

Segmented Requests Supported Window Size: 1
 Segmented Responses Supported Window Size: 1

Standard Object Types Supported:

Object-Type	Supported	Dynamically Creatable	Dynamically Deletable	Optional Properties Supported	Writable Properties
Analog Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description, Device Type, Reliability, Min Pres Value, Max Pres Value, Resolution, COV Increment, Notify Type, Acked Transitions, Event Time Stamps	Object Name, Description, COV Increment, Present Value (conditional), Out of Service, Reliability (conditional), Time_Delay, Notification_Class, High_Limit, Low_Limit, Deadband
Analog Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description, Device Type, Reliability, Min Pres Value, Max Pres Value, Resolution, COV Increment, Notify Type, Acked Transitions, Event Time Stamps	Object Name, Description, Present Value, COV Increment, Relinquish Default, Out of Service, Reliability (conditional), Time Delay, Notification Class, High Limit, Low Limit, Deadband
Analog Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description, Reliability, COV Increment	Object Name, Description, Present Value (conditional), COV Increment, Out of Service, Reliability (conditional), Units
Binary Input	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description, Device Type, Reliability, Active Text, Inactive Text, Change Of State Time, Change Of State Count, Time of State Count Reset, Acked Transitions, Notify Type, Event Time Stamps	Object Name, Description, Polarity, Present Value (conditional), Change of State Count, Out of Service, Reliability (conditional), Time Delay, Notification Class, Alarm Value
Binary Output	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description, Device Type, Reliability, Active Text, Inactive Text, Change Of State Time, Change Of State Count, Time of State Count Reset, Min On Time, Min Off Time, Acked Transitions, Notify Type, Event Time Stamps	Object Name, Description, Present Value, Change of State Count, Polarity, Relinquish Default, Min On Time, Min Off Time, Out of Service, Reliability (conditional), Time Delay, Notification Class, Feedback Value (conditional)



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BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT

Object-Type	Supported	Dynamically Creatable	Dynamically Deletable	Optional Properties Supported	Writable Properties
Binary Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description, Active Text, Inactive Text	Object Name, Description, Present Value (conditional), Out of Service
Device	<input checked="" type="checkbox"/>	N/A	N/A	Description, Location, APDU Segment Timeout, Max Master, Max Info Frames, Max Segments Accepted, Local Time, Local Date, Backup Failure Timeout, Last Restore Time, Configuration Files	Object Name, Description, Location, Max Master, Max Info Frames, Backup Failure Timeout
Event Enrollment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description, Notification Class	Object Name, Description, Event Parameters, Object Property Reference, Notification Class
File	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description	Object Name, Description, Archive
Loop	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description, Reliability, Proportional Constant, Proportional Units, Integral Constant, Integral Units, Derivative Constant, Derivative Units, Bias, COV Increment	Object Name, Description, Action, Output units, Manipulated Var Ref, Controlled Variable Ref, Controlled Var Units, Controlled Var value, Setpoint, Setpoint Ref, Proportional Constant, Proportional Constant Units, Integral Constant, Integral Constant Units, Derivative Constant, Derivative Constant Units, Bias, COV Increment, Out of Service, Present Value (conditional), Reliability (conditional), Priority for Writing
Multi-state Value	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description, State Text	Object Name, Description, Present Value (conditional), Out Of Service
Notification Class	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description	Object Name, Description, Priority, Recipient List
Schedule	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description, Weekly Schedule	Object Name, Description, Effective Period, Weekly Schedule, Schedule Default, Out Of Service, Priority for Writing, List of Object Property Reference
Trend Log	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description, Start Time, Stop Time, Log Device Object Prop, Log Interval,	Object Name, Description, Log Enable, Start Time, Stop Time, Log Device Object Prop, Log Interval, Stop When Full, Record Count
Proprietary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		



Range Restrictions

Object-Type	Property	Range Restriction
All Object Types	Object Name	[1, 36] printable ASCII characters, inclusive
All Object Types	Description	[0, 64] printable ASCII characters, inclusive
Binary Input, Binary Output	Change Of State Count	Accepts writes of value of zero (0) only
Loop	Bias	[0.0, 100.0] inclusive
Schedule	Effective Period	End Date > Start Date (End date must be later date than the Start Date)

Data Link Layer Options:

NOTES

MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 76800

Device Address Binding:

Is static device binding supported? Yes No
 (Necessary for two-way communication with MS/TP slaves and certain other devices.)

Networking Options:

- Router
- Annex H, BACnet Tunneling
- BACnet/IP Broadcast Management Device (BBMD)
- Does the BBMD support registrations by Foreign Devices?

Character Sets Supported:

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

ANSI X3.4

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

Not applicable.