



Delta Application Specific Controller: VAV / VVT - DZNT-T0

BACNET PROTOCOL IMPLEMENTATION CONFORMANCE STATEMENT

Date: January 12, 2009
Vendor Name: Delta Controls Inc.
Product Name: DZNT-T0
Product Model Number: DZNT-V104D, DZNT-104D, DZNT-V104T,
DZNT-104T, DZNT-V112A, DZNT-112A,
Product Version: Release 4 Firmware
BACnet Protocol Revision: 4

Product Description

The VAV Zone Controller system consists of an intelligent LCD thermostat, and a remote termination module for mounting onto the VAV/VVT unit. The thermostat has an LCD display with four pushbuttons for setpoint and occupancy override, and contains a variety of configurable VAV/VVT algorithms. Each termination module comes complete with a damper actuator, optional flow sensor and housing.

BACnet Standardized Device Profile (Annex L):

- 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) | <input type="checkbox"/> |
| Data Sharing-ReadProperty-B (DS-RP-B) | <input checked="" type="checkbox"/> |
| Data Sharing-ReadPropertyMultiple-A (DS-RPM-A) | <input type="checkbox"/> |
| Data Sharing-ReadPropertyMultiple-B (DS-RPM-B) | <input checked="" type="checkbox"/> |
| Data Sharing-ReadPropertyConditional-A (DS-RPC-A) | <input type="checkbox"/> |
| Data Sharing-ReadPropertyConditional-B (DS-RPC-B) | <input type="checkbox"/> |
| Data Sharing-WriteProperty-A (DS-WP-A) | <input type="checkbox"/> |
| Data Sharing-WriteProperty-B (DS-WP-B) | <input checked="" type="checkbox"/> |
| Data Sharing-WritePropertyMultiple-A (DS-WPM-A) | <input type="checkbox"/> |
| Data Sharing-WritePropertyMultiple-B (DS-WPM-B) | <input type="checkbox"/> |
| Data Sharing-COV-A (DS-COV-A) | <input type="checkbox"/> |
| Data Sharing-COV-B (DS-COV-B) | <input checked="" type="checkbox"/> |
| Data Sharing-COVP-A (DS-COVP-A) | <input type="checkbox"/> |
| Data Sharing-COVP-B (DS-COVP-B) | <input type="checkbox"/> |
| Data Sharing-COV-Unsolicited-A (DS-COVU-A) | <input type="checkbox"/> |
| Data Sharing-COV-Unsolicited-B (DS-COVU-B) | <input type="checkbox"/> |
| Scheduling | |
| Scheduling-A (SCHED-A) | <input type="checkbox"/> |
| Scheduling-Internal-B (SCHED-I-B) | <input type="checkbox"/> |
| Scheduling-External-A (SCHED-E-B) | <input type="checkbox"/> |
| Trending | |
| Trending-Viewing and Modifying Trends-A (T-VMT-A) | <input type="checkbox"/> |
| Trending-Viewing and Modifying Trends-Internal-B (T-VMT-I-B) | <input type="checkbox"/> |
| Trending-Viewing and Modifying Trends-External-B (T-VMT-E-B) | <input type="checkbox"/> |
| Trending-Automated Trend Retrieval-A (T-ATR-A) | <input type="checkbox"/> |
| Trending-Automated Trend Retrieval-B (T-ATR-B) | <input type="checkbox"/> |
| Network Management | |
| Network Management-Connection Establishment-A (NM-CE-A) | <input type="checkbox"/> |
| Network Management-Connection Establishment-B (NM-CE-B) | <input type="checkbox"/> |
| Network Management-Router Configuration-A (NM-RC-A) | <input type="checkbox"/> |
| Network Management-Router Configuration-B (NM-RC-B) | <input type="checkbox"/> |
| Alarm and Event Management | |
| Alarm and Event-Notification-A (AE-N-A) | <input type="checkbox"/> |
| Alarm and Event-Notification Internal-B (AE-N-I-B) | <input type="checkbox"/> |
| Alarm and Event-Notification External-A (AE-N-E-B) | <input type="checkbox"/> |
| Alarm and Event-ACK-A (AE-ACK-A) | <input type="checkbox"/> |
| Alarm and Event-ACK-B (AE-ACK-B) | <input type="checkbox"/> |
| Alarm and Event-Alarm Summary-A (AE-ASUM-A) | <input type="checkbox"/> |
| Alarm and Event-Alarm Summary-B (AE-ASUM-B) | <input type="checkbox"/> |
| Alarm and Event-Enrollment Summary-A (AE-ESUM-A) | <input type="checkbox"/> |
| Alarm and Event-Enrollment Summary-B (AE-ESUM-B) | <input type="checkbox"/> |
| Alarm and Event-Information-A (AE-INFO-A) | <input type="checkbox"/> |
| Alarm and Event-Information-B (AE-INFO-B) | <input type="checkbox"/> |
| Alarm and Event-LifeSafety-A (AE-LS-A) | <input type="checkbox"/> |
| Alarm and Event-LifeSafety-B (AE-LS-B) | <input type="checkbox"/> |
| Device Management | |
| Device Management-Dynamic Device Binding-A (DM-DDB-A) | <input type="checkbox"/> |
| Device Management-Dynamic Device Binding-B (DM-DDB-B) | <input checked="" type="checkbox"/> |
| Device Management-Dynamic Object Binding-A (DM-DOB-A) | <input type="checkbox"/> |
| Device Management-Dynamic Object Binding-B (DM-DOB-B) | <input checked="" type="checkbox"/> |
| Device Management-DeviceCommunicationControl-A (DM-DCC-A) | <input type="checkbox"/> |



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| BACnet Interoperability Building Block | Supported |
|---|-------------------------------------|
| Device Management-DeviceCommunicationControl-B (DM-DCC-B) | <input checked="" type="checkbox"/> |
| Device Management-Private Transfer-A (DM-PT-A) | <input type="checkbox"/> |
| Device Management-Private Transfer-B (DM-PT-B) | <input type="checkbox"/> |
| Device Management-Text Message-A (DM-TM-A) | <input type="checkbox"/> |
| Device Management-Text Message-B (DM-TM-B) | <input type="checkbox"/> |
| Device Management-TimeSynchronization-A (DM-TS-A) | <input type="checkbox"/> |
| Device Management-TimeSynchronization-B (DM-TS-B) | <input checked="" type="checkbox"/> |
| Device Management-UTCTimeSynchronization-A (DM-UTC-A) | <input type="checkbox"/> |
| Device Management-UTCTimeSynchronization-B (DM-UTC-B) | <input type="checkbox"/> |
| Device Management-ReinitializeDevice-A (DM-RD-A) | <input type="checkbox"/> |
| Device Management-ReinitializeDevice-B (DM-RD-B) | <input checked="" type="checkbox"/> |
| Device Management-Backup and Restore-A (DM-BR-A) | <input type="checkbox"/> |
| Device Management-Backup and Restore-B (DM-BR-B) | <input type="checkbox"/> |
| Device Management-List Manipulation-A (DM-LM-A) | <input type="checkbox"/> |
| Device Management-List Manipulation-B (DM-LM-B) | <input type="checkbox"/> |
| Device Management-Object Creation and Deletion-A (DM-OCD-A) | <input type="checkbox"/> |
| Device Management-Object Creation and Deletion-B (DM-OCD-B) | <input type="checkbox"/> |
| Device Management-Virtual Terminal-A (DM-VT-A) | <input type="checkbox"/> |
| Device Management-Virtual Terminal-B (DM-VT-B) | <input type="checkbox"/> |

Segmentation Capability:

Segmented Requests Supported Window Size: N/A
 Segmented Responses Supported Window Size: N/A

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"/> | Reliability, COV Increment | Object Name (conditional), COV Increment, Out of Service, Units (conditional), Present Value (conditional), Reliability (conditional) |
| Analog Value | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | COV Increment | Object Name (conditional), Present Value (conditional), Out of Service, Units (conditional) |
| Device | YES | N/A | N/A | Max Master, Max Info Frames, Local Time, Local Date | Object Name, Max Master, Max Info Frames |



Data Link Layer Options:

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7) (10Base2, 10Base5, 10BaseT, Fiber)
- ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s):
- MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 76800
- 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:
- Other:

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 Tunnelling
- 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 IBM/Microsoft DBCS JIS C 6226
- ISO 10646 (ICS-4) ISO 10646 (UCS2) ISO 8859-1

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

Not applicable.