



Protocol Implementation Conformance Statement

Tracer™ UC800 Controller

Vendor Name: Trane

Product Name: Tracer™ UC800

Product Model Number: Tracer™ UC800

Product Version: Version 1

BACnet Protocol Revision: Revision 4

Product Description: Tracer UC800 is a chiller equipment unit controller. The Tracer UC800 provides the equipment system sequences and performs closed loop control. The Tracer UC800 provides integration with other BACnet systems and devices using BACnet MS/TP.

Standardized Device Profile (Annex L)

BACnet Operator Workstation (B-OWS)	<input type="checkbox"/>
BACnet Building Controller (B-BC)	<input type="checkbox"/>
BACnet Advanced Application Controller (B-AAC)	<input type="checkbox"/>
BACnet Application Specific Controller (B-ASC)	<input checked="" type="checkbox"/>
BACnet Smart Sensor (B-SS)	<input type="checkbox"/>
BACnet Smart Actuator (B-SA)	<input type="checkbox"/>

Interoperability Building Blocks (Annex K)

Data Sharing	Supported
ReadProperty-B (DS-RP-B)	<input checked="" type="checkbox"/>
ReadPropertyMultiple-B (DS-RPM-B)	<input checked="" type="checkbox"/>
WriteProperty-B (DS-WP-B)	<input checked="" type="checkbox"/>
WritePropertyMultiple-B (DS-WPM-B)	<input checked="" type="checkbox"/>
Alarm and Event Management	Supported
Notification Internal-B (AE-N-I-B)	<input checked="" type="checkbox"/>
Information-B (AE-INFO-B)	<input checked="" type="checkbox"/>
Device Management Description	Supported
Dynamic Device Binding-A (DM-DDB-A)	<input checked="" type="checkbox"/>
Dynamic Device Binding-B (DM-DDB-B)	<input checked="" type="checkbox"/>
Dynamic Object Binding-B (DM-DOB-B)	<input checked="" type="checkbox"/>
Device Communication Control-B (DM-DCC-B)	<input checked="" type="checkbox"/>
TimeSynchronization-B (DM-TS-B)	<input checked="" type="checkbox"/>
UTCTimeSynchronization-B (DM-UTC-B)	<input checked="" type="checkbox"/>

Segmentation Capability

Segmentation	Supported
Segmented Requests/ Window Size: 1	<input checked="" type="checkbox"/>
Segmented Responses/ Window Size: 1	<input checked="" type="checkbox"/>

Supported Standard Object Types

Note: For objects that contain the **Present_Value** and **Reliability** properties, these properties are only writable when the **Out_Of_Service** property is **True**.

Table 1. Descriptions and configurations

Object Type	Writable Properties	Required Properties	Optional Properties Supported	Ability to Create	Ability to Delete
Analog Input	<ul style="list-style-type: none"> Object_Name Out_Of_Service Present_Value Reliability 	<ul style="list-style-type: none"> Object_Identifier Object_Name Object_Type Present_Value Status_Flags Event_State Out_Of_Service Units 	<ul style="list-style-type: none"> Reliability 	None	None
Analog Value	<ul style="list-style-type: none"> Object_Name Out_Of_Service Present_Value Reliability Relinquish_Default 	<ul style="list-style-type: none"> Object_Identifier Object_Name Object_Type Present_Value Status_Flags Event_State Out_Of_Service Units 	<ul style="list-style-type: none"> Priority_Array Relinquish_Default Reliability 	None	None
Binary Input	<ul style="list-style-type: none"> Object_Name Out_Of_Service Inactive_Text Active_Text Present_Value Reliability 	<ul style="list-style-type: none"> Object_Identifier Object_Name Object_Type Present_Value Status_Flags Event_State Out_Of_Service Polarity 	<ul style="list-style-type: none"> Inactive_Text Active_Text Time_Delay Notification_Class Alarm_Value Event_Enable Acked_Transitions Notify_Type Event_Time_Stamps Reliability 	None	None
Binary Value	<ul style="list-style-type: none"> Object_Name Out_Of_Service Inactive_Text Active_Text Present_Value Reliability Relinquish_Default 	<ul style="list-style-type: none"> Object_Identifier Object_Name Object_Type Present_Value Status_Flags Event_State Out_Of_Service 	<ul style="list-style-type: none"> Inactive_Text Active_Text Priority_Array Relinquish_Default Reliability 	None	None
Device	<ul style="list-style-type: none"> Object_Name UTC_Offset 	<ul style="list-style-type: none"> Object_Identifier Object_Name Object_Type System_Status Vendor_Name Vendor_Identifier Model_Name Firmware_Revision Application_Software_Version Protocol_Version Protocol_Revision Protocol_Services_Supported Protocol_Object_Types_Supported Object_List Max_APDU_Length_Accepted Segmentation_Supported APDU_Timeout Number_Of_APDU_Retries Device_Address_Binding Database_Revision 	<ul style="list-style-type: none"> Max_Segments_Accepted APDU_Segment_Timeout Max_Master Max_Info_Frames Local_Time Local_Date UTC_Offset Daylight_Savings_Status 	None	None
Multistate Input	<ul style="list-style-type: none"> Object_Name State_Text Out_Of_Service Present_Value Reliability 	<ul style="list-style-type: none"> Object_Identifier Object_Name Object_Type Present_Value Status_Flags Event_State Out_Of_Service Number_Of_States 	<ul style="list-style-type: none"> State_Text Reliability 	None	None

Table 1. Descriptions and configurations (continued)

Object Type	Writable Properties	Required Properties	Optional Properties Supported	Ability to Create	Ability to Delete
Multistate Value	<ul style="list-style-type: none"> Object_Name State_Text Out_Of_Service Present_Value Reliability Relinquish_Default 	<ul style="list-style-type: none"> Object_Identifier Object_Name Object_Type Present_Value Status_Flags Event_State Out_Of_Service Number_Of_States 	<ul style="list-style-type: none"> State_Text Priority_Array Reliability Relinquish_Default 	None	None
Notification Class	<ul style="list-style-type: none"> Object_Name Recipient_List 	<ul style="list-style-type: none"> Object_Identifier Object_Name Object_Type Notification_Class Priority Ack_Required Recipient_List 	<ul style="list-style-type: none"> None 	None	None

BACnet Protocol

Data Link Layer Options

Data Link Layer	Options
BACnet IP, (Annex J)	<input type="checkbox"/>
BACnet IP, (Annex J), Foreign Device	<input type="checkbox"/>
ISO 8802-3, Ethernet (Clause 7) (10Base2, 10Base5, 10BaseT, Fiber)	<input type="checkbox"/>
ANSI/ATA 878.1, 2.5 Mb ARCNET (Clause 8)	<input type="checkbox"/>
ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), Baud Rate(s)	<input type="checkbox"/>
MS/TP Master (Clause 9), Baud Rate(s): 9600, 19200, 38400, 76800, 115,200 @1.5% nominal baud rate	<input checked="" type="checkbox"/>
MS/TP Slave (Clause 9), Baud Rate(s)	<input type="checkbox"/>
Point-to-Point, EIA 232 (Clause 10), Baud Rate(s): 9600, 19200, 38400	<input type="checkbox"/>
Point-to-Point, Modem (Clause 10), Baud Rate(s): 9600, 19200, 38400	<input type="checkbox"/>
LonTalk, (Clause 11), Medium	<input type="checkbox"/>
Other	<input type="checkbox"/>

Device Address Binding

Is static device binding supported? Yes No

Networking Options

Router	<input type="checkbox"/>
Annex H, BACnet Tunneling	<input type="checkbox"/>
BACnet/IP Broadcast Management Device (BBMD)	<input type="checkbox"/>
Does the BBMD Support Registrations by Foreign Devices?	<input type="checkbox"/>

Character Sets

Indicating support for multiple characters sets does not imply that all character sets are supported simultaneously. Maximum supported string length is 64 bytes (*any character set*).

ANSI X3.4 (UTF-8)	<input checked="" type="checkbox"/>
IBM/Microsoft DBCS	<input type="checkbox"/>
JIS C 6226	<input type="checkbox"/>
ISO 10646 (UCS-4)	<input type="checkbox"/>
ISO 10646 (UCS2)	<input checked="" type="checkbox"/>
ISO 8859-1	<input checked="" type="checkbox"/>

Additional Resources

Use the following documents and links as additional resources:

- Product support online:
 - www.bacnetassociation.org
 - www.ashrae.org

For further assistance, contact your local Trane sales office.



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