

BACnet™ Protocol Implementation Conformance Statement

Vendor Name: Tridium, Inc.
Product Family: Niagara Framework™, including Vykon Web Supervisor™, Vykon BACnet Supervisor™, JACE-NP-1™, and JACE-NP-2™, JACE-4XX, JACE-5XX, at Release build 2.3.428 or higher.
Description: This product family provides bi-directional communication between the Tridium Niagara Framework™ and a BACnet system operating at BACnet Conformance Class 3, over Ethernet media or over MS/TP.

PICS BACnet Conformance Class Supported

Class 1	complete
Class 2	complete
Class 3	complete
Class 4	partial
Class 5	partial
Class 6	partial

PICS BACnet Functional Groups Supported

HHWS	partial
PCWS	partial

PICS BACnet Standard Application Services Supported

Application Service	Initiate Requests	Executes Requests
ReadProperty	yes	yes
ReadPropertyMultiple	yes	yes
ReadRange (trend log only)	no	yes
WriteProperty	yes	yes
WritePropertyMultiple	yes	yes
ConfirmedEventNotification	yes	yes
UnConfirmedEventNotification	yes	yes
AcknowledgeAlarm	yes	yes
GetAlarmSummary	yes	yes
Who-Has	yes	yes
I-Have	yes	yes
Who-Is	yes	yes
I-Am	yes	yes
SubscribeCOV	yes	no
ConfirmedCOVNotification	no	yes
UnconfirmedCOVNotification	no	yes

PICS Standard Object-Types Supported

Object-Type	Supported	Dynamically Creatable	Dynamically Deletable
Analog Input	yes	no	no
Analog Output	yes	no	no
Analog Value	yes	no	no
Binary Input	yes	no	no
Binary Output	yes	no	no
Binary Value	yes	no	no
Schedule (exported as read only)	yes	no	no
Calendar (exported as read only)	yes	no	no
Trend Log (exported as read only)	yes	no	no
Multistate Input (8 states max)	yes	no	no
Multistate Output (8 states max)	yes	no	no
Multistate Value (8 states max)	yes	no	no
Device	yes	Not applicable	Not applicable

Segmentation Capability

Feature	Supported	Window size
Segmented Request	yes	any
Segmented Response	yes	any

PICS Data Link Layer Option

ISO 8802-3, 10BASE5	yes
ISO 8802-3, 10BASE2	yes
ISO 8802-3, 10BASET	yes
ISO 8802-3, Fiber	yes
BACnet/IP- Annex J	yes
MS/TP master (JACE only)	yes

Networking Options	Supported
Router, Clause 6 – Ethernet IP-Ethernet, Ethernet-MS/TP, Ethernet IP-MS/TP	yes
BACnet Broadcast Management Device (BBMD)	yes

PICS Character Sets Supported

ANSI X3.4	yes
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BIBBs Compatibility (BACnet Interoperability Building Blocks)

Data Sharing	Device & Network Management	Alarm & Event Management	Trending
DS-RP-A, B DS-RPM-A, B DS-WP-A, B DS-WPM-A, B DS-COV-A DS-COVU-A	DM-DDB-A, B DM-DOB-A, B NM-RC-A Scheduling SCHED-B	AE-N-A, B AE-ACK-A, B AE-ASUM-A, B	T-VMT-B