

# Appendix A: PIC Statement

## A.1 BACnet Protocol Implementation Conformance Statement (Normative)

(This appendix is part of this Standard and is required for its use.)

Applications Software Version: 3.11

Firmware Revision: 3.11

BACnet Protocol Revision: 1.2

### Product Description:

This product presents NOTIFIER® Fire Panel and Annunciator nodes (operating as part of an NFN network or stand-alone) and their associated objects as BACnet objects. Event notification for Alarms, Troubles and other states are sent to registered BACnet client workstations.

### 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)

Data Sharing	Device & Network Management	Scheduling	Alarm & Event Management	Trending
DS-RP-B	DM-DDB-B		AE-ACK-B	
DS-RPM-B	DM-DOB-A		AE-ASUM-B	
DS-WP-B	DM-DOB-B		AE-N-I-B	
DS-WPM-B	DM-LM-B		AE-INFO-B	

### Segmentation Capability

- Segmented requests supported, Window Size 1024 Max
- Segmented responses supported, Window Size 1024 Max

**Standard Object Types Supported—Life Safety Point/Life Safety Zone**

<b>Present Value</b>	<b>BACnet Enumeration</b>	<b>BACnet LifeSafetyState</b>	<b>NFN State</b>
	0	IssQuiet	Normal
	1	IssPreAlarm	PreAlarm
	2	IssAlarm	Fire Alarm, Security Alarm (Life/Property), Critical Process Alarm, (Life/Property), Medical Emergency
	3	IssFault	Security Trouble, Fire Trouble, Non-Fire Trouble, Fire Device or Zone, Disabled, Non-Fire Device Disabled
	7	IssActive	Non-Fire Activation
	22	IssSupervisory	Supervisory (Equipment), Supervisory (Guard's Tour)
<b>Tracking Value</b>	<b>BACnet Enumeration</b>	<b>BACnet LifeSafetyState</b>	<b>NFN State</b>
	0	IssQuiet	Normal
	1	IssPreAlarm	PreAlarm
	2	IssAlarm	Fire Alarm, Security Alarm (Life/Property), Critical Process Alarm (Life/Property), Medical Emergency
	3	IssFault	Security Trouble, Fire Trouble, Non-Fire Trouble, Fire Device or Zone, Disabled, Non-Fire Device Disabled
	7	IssActive	Non-Fire Activation
	22	IssSupervisory	Supervisory (Equipment), Supervisory (Guard's Tour)
<b>Event State</b>	<b>BACnet Enumeration</b>	<b>BACnet Event State</b>	<b>NFN State</b>
	0	EsNormal	Normal
	1	EsFault	Security Trouble, Fire Trouble, Non-Fire Trouble, Fire Device Disabled, Non-Fire Device Disabled
	2	EsOffNormal	All statuses other than normal and fault.
<b>Reliability</b>	<b>BACnet Enumeration</b>	<b>BACnet Reliability</b>	<b>NFN State</b>
	0	reNoFaultDetected	All statuses other than trouble.
	7	re_UnreliableOther	Security Trouble, Fire Trouble, Non-Fire Trouble
<b>Mode</b>	<b>BACnet Enumeration</b>	<b>BACnet Mode</b>	<b>NFN State</b>
	0	IsmOff	Power-Up State
	11	IsmEnabled	Set if point has been disabled and subsequently enabled since startup.
	12	IsmDisabled	Fire Device or Zone Disabled, Non-Fire Device Disabled

<b>Silence State</b>	<b>BACnet Enumeration</b>		<b>NFN State</b>
	0	ssUnsilenced	Audibles Unsilenced
	1	ssAudiblesSilenced	Audibles Silenced
<b>Operation Expected</b>	<b>BACnet Enumeration</b>		<b>NFN State</b>
	0		NA
<b>Maintenance Expected</b>	<b>BACnet Enumeration</b>		<b>NFN State</b>
	NA	NA	NA
<b>Event Enable</b>	<b>BACnet Event Transition Bit</b>		
		toOffNormal	
		toFault	
<b>Direct Reading</b>	REAL	NA	% Alarm
<b>Status Flags</b>	<b>Boolean</b>	<b>BACnet Status Flags</b>	<b>NFN State</b>
	0,0,0,0		Normal
	1,0,0,0	InAlarm	Fire Alarm, Security Alarm (Life/Property), Critical Process Alarm (Life/Property), Medical Emergency
	1,1,0,0	InAlarm, Fault	Security Trouble, Fire Trouble, Non-Fire Trouble, PreAlarm
	1,0,0,1	InAlarm, OutOfService	Fire Device or Zone Disabled, Non-Fire Device Disabled
<b>Out of Service</b>	<b>Boolean</b>		<b>NFN State</b>
	0	FALSE	All statuses other than disable
	1	TRUE	Fire Device or Zone Disabled, Non-Fire Device Disabled

**Standard Object Types Supported—Multi-State Input Standard Object Types**

<b>Present Value</b>	<b>BACnet Enumeration</b>		<b>NFN State</b>
	1	None	Normal
	2	None	All statuses other than those included in 3 and 4 below.
	3	None	Security Trouble, Fire Trouble, Non-Fire Trouble
	4	None	Fire Device or Zone Disabled, Non-Fire Device Disabled

<b>Event State</b>	<b>BACnet Enumeration</b>	<b>BACnet Event State</b>	<b>NFN State</b>
	0	EsNormal	Normal
	1	EsFault	Security Trouble, Fire Trouble, Non-Fire Trouble, Fire Device Disabled, Non-Fire Device Disabled
	2	EsOffNormal	All statuses other than normal and fault.
<b>Reliability</b>	<b>BACnet Enumeration</b>	<b>BACnet Reliability</b>	<b>NFN State</b>
	0	reNoFaultDetected	All statuses other than trouble.
	7	re_UnreliableOther	Security Trouble, Fire Trouble, Non-Fire Trouble
<b>Status Flags</b>	<b>Boolean</b>	<b>BACnet Status Flags</b>	<b>NFN State</b>
	0,0,0,0		Normal
	1,0,0,0	InAlarm	Fire Alarm, Security Alarm (Life/Property), Critical Process Alarm (Life/Property), Medical Emergency
	1,1,0,0	InAlarm, Fault	Security Trouble, Fire Trouble, Non-Fire Trouble, PreAlarm
	1,0,0,1	InAlarm, OutOfService	Fire Device or Zone Disabled, Non-Fire Device Disabled
<b>Out of Service</b>	<b>Boolean</b>		<b>NFN State</b>
	0	FALSE	All statuses other than disable
	1	TRUE	Fire Device or Zone Disabled, Non-Fire Device Disabled

**Supported—Binary Output**

<b>Present Value</b>	<b>BACnet Enumeration</b>	<b>BACnet LifeSafetyState</b>	<b>NFN State</b>
	0	IssQuiet	Normal
	1	IssPreAlarm	PreAlarm
	2	IssAlarm	Fire Alarm, Security Alarm (Life/Property), Critical Process Alarm, (Life/Property), Medical Emergency
	3	IssFault	Security Trouble, Fire Trouble, Non-Fire Trouble, Fire Device or Zone, Disabled, Non-Fire Device Disabled
	7	IssActive	Non-Fire Activation
	22	IssSupervisory	Supervisory (Equipment), Supervisory (Guard's Tour)

<b>Tracking Value</b>	<b>BACnet Enumeration</b>	<b>BACnet LifeSafetyState</b>	<b>NFN State</b>
	0	IssQuiet	Normal
	1	IssPreAlarm	PreAlarm
	2	IssAlarm	Fire Alarm, Security Alarm (Life/Property), Critical Process Alarm (Life/Property), Medical Emergency
	3	IssFault	Security Trouble, Fire Trouble, Non-Fire Trouble, Fire Device or Zone, Disabled, Non-Fire Device Disabled
	7	IssActive	Non-Fire Activation
	22	IssSupervisory	Supervisory (Equipment), Supervisory (Guard's Tour)
<b>Event State</b>	<b>BACnet Enumeration</b>	<b>BACnet Event State</b>	<b>NFN State</b>
	0	EsNormal	Normal
	1	EsFault	Security Trouble, Fire Trouble, Non-Fire Trouble, Fire Device Disabled, Non-Fire Device Disabled
	2	EsOffNormal	All statuses other than normal and fault.
<b>Reliability</b>	<b>BACnet Enumeration</b>	<b>BACnet Reliability</b>	<b>NFN State</b>
	0	reNoFaultDetected	All statuses other than trouble.
	7	re_UnreliableOther	Security Trouble, Fire Trouble, Non-Fire Trouble
<b>Mode</b>	<b>BACnet Enumeration</b>	<b>BACnet Mode</b>	<b>NFN State</b>
	0	IsmOff	Power-Up State
	11	IsmEnabled	Set if point has been disabled and subsequently enabled since startup.
	12	IsmDisabled	Fire Device or Zone Disabled, Non-Fire Device Disabled
<b>Silence State</b>	<b>BACnet Enumeration</b>		<b>NFN State</b>
	0	ssUnsilenced	Audibles Unsilenced
	1	ssAudiblesSilenced	Audibles Silenced
<b>Operation Expected</b>	<b>BACnet Enumeration</b>		<b>NFN State</b>
	0		NA
<b>Maintenance Expected</b>	<b>BACnet Enumeration</b>		<b>NFN State</b>
	NA	NA	NA
<b>Event Enable</b>	<b>BACnet Event Transition Bit</b>		
		toOffNormal	
		toFault	

<b>Direct Reading</b>	REAL	NA	% Alarm
<b>Status Flags</b>	<b>Boolean</b>	<b>BACnet Status Flags</b>	<b>NFN State</b>
	0,0,0,0		Normal
	1,0,0,0	InAlarm	Fire Alarm, Security Alarm (Life/Property), Critical Process Alarm (Life/Property), Medical Emergency
	1,1,0,0	InAlarm, Fault	Security Trouble, Fire Trouble, Non-Fire Trouble, PreAlarm
	1,0,0,1	InAlarm, OutOfService	Fire Device or Zone Disabled, Non-Fire Device Disabled
<b>Out of Service</b>	<b>Boolean</b>		<b>NFN State</b>
	0	FALSE	All statuses other than disable
	1	TRUE	Fire Device or Zone Disabled, Non-Fire Device Disabled

**Standard Object Types Supported—Notification Class**

Write Property/Add List element required for Intrinsic Reporting.

**■ Data Link Layer Options:**

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7)
- 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): \_\_\_\_\_
- 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? (This is currently necessary for two-way communication with MS/TP slaves and certain other devices.)

- Yes  No

**■ Networking Options:**

- Router, Clause 6—List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc. BACnet to Proprietary ARCnet Fire Network
- Annex H, BACnet Tunneling Router over IP
- BACnet 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.

- ANSI X3.4
- IBM/Microsoft DBCS
- ISO 8859-1
- ISO 10646 (UCS-2)
- ISO 10646 (ICS-4)
- JIS C 6226

**■ Supported Non-BACnet Equipment/Networks**

This product supports communications between NOTIFIER® Fire and Annunciator nodes compatible with network v5.0 and later operating in a network or stand-alone configuration.

