

2017

Protocol Implementation Conformance Statement

Setra FLEX Environmental Monitor

This document gives the brief product description and the complete over view of the PICS statement.

Design Team
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Ver 0.5



Index

1. Document Introduction	3
2. Product Description as per Annex A PICS (normative)	3
3. BACnet Requirements	3
3.1 BACnet Standardized Device Profile (Annex L)	3
3.2 BACnet Interoperability Building Blocks (BIBBs) (Annex K).....	4
3.3 Standard Object Types Supported	5
3.3.1 Analog Input (as per Clause 12.2, Table 12-2)	6
3.3.2 Analog Value (as per Clause 12.4, Table 12-4)	6
3.3.3 Binary Input (as per Clause 12.6, Table 12-6)	8
3.3.4 Binary Value (as per Clause 12.8, Table 12-10).....	8
3.3.5 Device (as per Clause 12.11, Table 12-13)	9
3.3.6 Event enrollment (as per Clause 12.12, Table 12-14)	10
3.3.7 Multi-State Input (as per Clause 12.18, Table 12-21)	10
3.3.8 Multi-State Value (as per Clause 12.20, Table 12-23).....	11
3.3.9 Notification Class (as per Clause 12.21, Table 12-24)	11
3.3.10 Character String Value Object (as per Clause 12.37, Table 12-44)	12
3.4 Data Link Layer Option.....	12
3.5 Segmentation Capability	12
3.6 Device Address Binding	12
3.7 Networking Options.....	12
3.8 Character Sets Supported.....	13
3.9 Supported Services.....	13

1. Document Introduction

This document contains the Protocol Implementation Conformance Statement (PICS) and BACnet® Interoperability Building Blocks (BIBBs) for the Setra RCMS as required by the American National Standards Institute/ American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ANSI/ASHRAE) Standard 135-2012, BACnet protocol. BACnet interoperability building blocks are collections of one or more BACnet services. This document includes a listing of the BIBBs currently supported by the Monitor. The Room Condition Monitor System (RCMS) is a native BACnet Application Specific Controller with MS/TP and IP capabilities.

2. Product Description as per Annex A PICS (normative)

Setra RCMS in conjunction with a separate Setra IO module (Not BACnet) provide complete solution for monitoring and controlling critical parameters like pressure, temperature and humidity in hospital/lab facilities.

3. BACnet Requirements

3.1 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)

3.2 BACnet Interoperability Building Blocks (BIBBs) (Annex K)

Table below lists all the BIBBs that are required for the BACnet Application Specific Controller (B-ASC) profile for RCMS. The BIBBs that are not required for B-ASC Profile but supported in RCMS are also listed.

Application Specific Controller (B-ASC)	Designation
Required for B-ASC Profile	
Data Sharing - Read Property – B	DS-RP-B
Data Sharing - Write Property – B	DS-WP-B
Device Management - Dynamic Device Binding – B	DM-DDB-B
Device Management - Dynamic Object Binding – B	DM-DOB-B
Device Management - Device Communication Control – B	DM-DCC-B
Not Required for B-ASC Profile but supported in RCMS	
Data Sharing - Write Property Multiple – B	DS-WPM-B
Data Sharing - Read Property Multiple – B	DS-RPM-B
Device Management - Reinitialize Device – B	DM-RD-B
Alarm and Event-Notification Internal-B	AE-N-I-B
Alarm and Event-Information-B	AE-INFO-B
Device Management - Time Synchronization – B	DM-TS-B
Device Management-Dynamic Device Binding-A	DM-DDB-A
Device Management – UTC Time Synchronization – B	DB-UTC-B
Data Sharing - Read Property – A	DS-RP-A
Data Sharing - Write Property – A	DS-WP-A
Data Sharing-COV-B	DS-COV-B
Data Sharing-ReadPropertyMultiple-B	DS-RPM-B
Alarm and Event-ACK-B	AE-ACK-B
Network Management-Router Configuration-B	NM-RC-B

3.3 *Standard Object Types Supported*

The following is a list of the standard object types supported by the RCMS.

- Analog Input**
- Analog Output**
- Analog Value**
- Binary Input**
- Binary Output**
- Binary Value**
- Device**
- Event Enrollment**
- Multistate Input**
- Multistate output**
- Multistate Value**
- Notification Class**
- Character String Value Object**

3.3.1 Analog Input (as per Clause 12.2, Table 12-2)Dynamically Creatable: YES NODynamically Deletable: YES NO

Property Identifier	Writable	Conformance Code		Property Data Type
		Required	Optional	
Object_Identifier	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectIdentifier
Object_Name	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CharacterString
Object_Type	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectType
Present_Value	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	REAL
Description	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CharacterString
Device_Type	No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CharacterString
Status_Flags	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetStatusFlags
Event_State	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetEventState
Out_Of_Service	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BOOLEAN
Units	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetEngineeringUnits
Min_Pres_Value	No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REAL
Max_Pres_Value	No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REAL
Resolution	No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REAL
COV_Increment	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REAL

3.3.2 Analog Value (as per Clause 12.4, Table 12-4)Dynamically Creatable: YES NODynamically Deletable: YES NO

Property Identifier	Writable	Conformance Code		Property Data Type
		Required	Optional	
Object_Identifier	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectIdentifier
Object_Name	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CharacterString
Object_Type	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectType
Present_Value	Yes*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	REAL
Description	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CharacterString
Status_Flags	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetStatusFlags
Event_State	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetEventState
Out_Of_Service	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BOOLEAN
Units	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetEngineeringUnits
COV_Increment	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REAL
Time_Delay	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unsigned
Notification Class	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unsigned
High_Limit	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REAL
Low_Limit	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REAL
Deadband	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REAL

Limit_Enable	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BACnetLimitEnable
Event_Enable	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BACnetEventTransitionBits
Notify_Type	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BACnetNotifyType
Acked_Transitions	No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BACnetEventTransitionBits
Event_Time_Stamps	No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BACnetARRAY[3] of BACnetTimeStamp
Event_Detection_Enable	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BOOLEAN
Time_Delay_Normal	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REAL
Max_Pres_Value	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REAL
Min_Pes_Value	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REAL
Resolution	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	REAL

*writable only when Out_Of_Service is true

3.3.3 Binary Input (as per Clause 12.6, Table 12-6)Dynamically Creatable: YES NODynamically Deletable: YES NO

Property Identifier	Writable	Conformance Code		Property Data Type
		Required	Optional	
Object_Identifier	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectIdentifier
Object_Name	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CharacterString
Object_Type	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectType
Present_Value	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetBinaryPV
Description	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CharacterString
Device_Type	No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CharacterString
Status_Flags	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetStatusFlags
Event_State	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetEventState
Out_Of_Service	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BOOLEAN
Polarity	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetPolarity
Inactive_Text	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CharacterString
Active_Text	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CharacterString

3.3.4 Binary Value (as per Clause 12.8, Table 12-10)Dynamically Creatable: YES NODynamically Deletable: YES NO

Property Identifier	Writable	Conformance Code		Property Data Type
		Required	Optional	
Object_Identifier	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectIdentifier
Object_Name	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CharacterString
Object_Type	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectType
Present_Value	Yes*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetBinaryPV
Description	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CharacterString
Status_Flags	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetStatusFlags
Event_State	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetEventState
Out_Of_Service	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BOOLEAN
Inactive_Text	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CharacterString
Active_Text	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CharacterString

*Instance 1 and 7 are not writable.

3.3.5 Device (as per Clause 12.11, Table 12-13)Dynamically Creatable: YES NODynamically Deletable: YES NO

Property Identifier	Writable	Conformance Code		Property Data Type
		Required	Optional	
Object_Identifier	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectIdentifier
Object_Name	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CharacterString
Object_Type	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectType
System_Status	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetDeviceStatus
Vendor_Name	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CharacterString
Vendor_Identifier	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unsigned16
Model_Name	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CharacterString
Firmware_Revision	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CharacterString
Application_Software_Version	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CharacterString
Location	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CharacterString
Description	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CharacterString
Protocol_Version	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unsigned
Protocol_Revision	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unsigned
Protocol_Services_Supported	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetServicesSupported
Protocol_Object_Types_Supported	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectTypesSupported
Object_List	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetARRAY[N]of BACnetObjectIdentifier
Max_APDU_Length_Accepted	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unsigned
Segmentation_Supported	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetSegmentation
Local_Time	No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Time
Local_Date	No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Date
APDU_Timeout	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unsigned
Number_Of_APDU_Retries	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unsigned
Max_Master	No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unsigned(1..127)
Max_Info_Frames	No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unsigned
Device_Address_Binding	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	List of BACnetAddressBinding
Database_Revision	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unsigned
Daylight_Savings_Status	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BOOLEAN
UTC_Offset	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	INTEGER
Active_COV_Subscriptions	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BACnetLIST of BACnetCOVSubscription

3.3.6 Event enrollment (as per Clause 12.12, Table 12-14)Dynamically Creatable: YES NODynamically Deletable: YES NO

Property Identifier	Writable	Conformance Code		Property Data Type
		Required	Optional	
Object_Identifier	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectIdentifier
Object_Name	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CharacterString
Object_Type	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectType
Description	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CharacterString
Event_Type	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetEventType
Notify_Type	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetNotifyType
Event_Parameters	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetEventParameter
Object_Property_Reference	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetDeviceObjectPropertyReference
Event_State	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetEventState
Event_Enable	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetEventTransitionBits
Acked_Transitions	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetEventTransitionBits
Notification_Class	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unsigned
Event_Time_Stamps	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetARRAY[3] of BACnetTimeStamp

3.3.7 Multi-State Input (as per Clause 12.18, Table 12-21)Dynamically Creatable: YES NODynamically Deletable: YES NO

Property Identifier	Writable	Conformance Code		Property Data Type
		Required	Optional	
Object_Identifier	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectIdentifier
Object_Name	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CharacterString
Object_Type	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectType
Present_Value	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unsigned
Description	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CharacterString
Status_Flags	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetStatusFlags
Event_State	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetEventState
Reliability	No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BACnetReliability
Out_Of_Service	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BOOLEAN
Number_Of_States	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unsigned
State_Text	No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BACnetARRAY[N]of CharacterString

3.3.8 Multi-State Value (as per Clause 12.20, Table 12-23)Dynamically Creatable: YES NODynamically Deletable: YES NO

Property Identifier	Writable	Conformance Code		Property Data Type
		Required	Optional	
Object_Identifier	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectIdentifier
Object_Name	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CharacterString
Object_Type	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectType
Present_Value	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unsigned
Description	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CharacterString
Status_Flags	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetStatusFlags
Event_State	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetEventState
Out_Of_Service	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BOOLEAN
Number_Of_States	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unsigned
State_Text	No	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BACnetARRAY[N] of CharacterString

*Instance 1,4,6,7,8,9,10,12,17,18,19,20,22,23,24,25,26 and 28 are not writable.

3.3.9 Notification Class (as per Clause 12.21, Table 12-24)Dynamically Creatable: YES NODynamically Deletable: YES NO

Property Identifier	Writable	Conformance Code		Property Data Type
		Required	Optional	
Object_Identifier	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectIdentifier
Object_Name	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CharacterString
Object_Type	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectType
Description	Yes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CharacterString
Notification_Class	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Unsigned
Priority	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetARRAY[3] of Unsigned
Ack_Required	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetEventTransitionBits
Recipient_List	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	List of BACnetDestination

3.3.10 Character String Value Object (as per Clause 12.37, Table 12-44)

Dynamically Creatable: YES NO
 Dynamically Deletable: YES NO

Property Identifier	Writable	Conformance Code		Property Data Type
		Required	Optional	
Object_Identifier	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectIdentifier
Object_Name	Yes	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CharacterString
Object_Type(512)	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetObjectType
Present_Value	Yes*	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CharacterString
Status_Flags	No	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BACnetStatusFlags

*Instances 7, 8,9,10 and 11 are not writable

3.4 Data Link Layer Option

- BACnet Internet Protocol (IP) (Annex J)
- BACnet IP (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7)
- ANSI/ATA 878.1, 2.5 MB ARCNET network (Clause 8)
- ANSI/ATA 878.1, RS-485 ARCNET network (Clause 8), baud rates:
- Master-Slave/Token-Passing (MS/TP) master (Clause 9), baud rates: 9600, 19200, 38400, 76800
- MS/TP slave (Clause 9), baud rates: 9600, 19200, 38400, 76800
- Point-To-Point, EIA 232 (Clause 10), baud rates:
- Point-To-Point, modem (Clause 10), baud rates:
- LonTalk® protocol (Clause 11), medium:
- Other:

3.5 Segmentation Capability

- Segmented requests supported : Window Size: N/A
- Segmented responses supported : Window Size: N/A

3.6 Device Address Binding

Is static device binding supported? (Required for two-way communication between MS/TP slaves and other devices)

YES NO

3.7 Networking Options

- Router, Clause 6 - List all routing configurations
BACnet/IP (annex J) - MS/TP
- Annex H, BACnet Tunneling Router over IP
- BACnet/IP Broadcast Management Device (BBMD)

Does the BBMD support registrations by Foreign Devices? YES NO

3.8 Character Sets Supported

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

- ISO 10646 (UTF-8)
- IBM™/Microsoft™ DBCS)
- ISO 8859-1
- ISO 10646 (UCS-2)
- ISO 10646 (UCS-4)
- JIS X 0208

3.9 Supported Services

Table below lists all the BACnet standard application services. The checked services are supported.

Application Service	Initiates Requests	Executes Requests
ConfirmedEventNotification Service	<input checked="" type="checkbox"/>	<input type="checkbox"/>
UnconfirmedEventNotification Service	<input checked="" type="checkbox"/>	<input type="checkbox"/>
GetEventInformation Service	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ReadProperty Service	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ReadPropertyMultiple Service	<input type="checkbox"/>	<input checked="" type="checkbox"/>
WriteProperty Service	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
WritePropertyMultiple Service	<input type="checkbox"/>	<input checked="" type="checkbox"/>
DeviceCommunicationControl Service	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ReinitializeDevice Service	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Timesynchronization Service	<input type="checkbox"/>	<input checked="" type="checkbox"/>
UTCTimesynchronization Service	<input type="checkbox"/>	<input checked="" type="checkbox"/>
who-Is	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Who-Has	<input type="checkbox"/>	<input checked="" type="checkbox"/>
I-Am	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
I-Have	<input checked="" type="checkbox"/>	<input type="checkbox"/>
UnconfirmedCOVNotification	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ConfirmedCOVNotification	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SubscribeCOV	<input type="checkbox"/>	<input checked="" type="checkbox"/>