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Data Sheet

AC2000 BACnet Interface
Integration to BMS, HVAC and other systems

Key Features

- Seamless integration to BACnet systems over Ethernet (BACnet IP)
- Windows style GUI for ease of configuration and data entry
- Map AC2000 Devices and Inputs to BACnet Objects
- Define how BACnet objects and received COVs can be displayed as AC2000 AED Alarms
- Define how AC2000 Alarms utilise BACnet Objects
- Operational/Non Operational Alarms
- Duress and Tamper Alarms
- Lost/Stolen card alarm
- Card Reader Off-line and other Reader event alarms
- AC200 Server failover notifications

The AC2000 BACnet interface provides a simple and efficient way to integrate AC2000 access control and security management solutions with third party building management systems. BACnet is a communications protocol for Building Automation and Control Networks.

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This means that AC2000 in combination with integrated systems can be deployed as a security management solution, providing the ability to display and monitor all integrated alarms.

Example AC2000 supported services:

Exports/Initiates
- UnconfirmedCOVNotification
- UnconfirmedEventNotification
- ReadPropertyMultiple
- WhoIs
- IAm

Imports /Executes
- UnconfirmedCOVNotification
- ReadProperty
- ReadPropertyMultiple
- WriteProperty
- WritePropertyMultiple
- WhoIs
- IAm

Live Video Feed

The operator can change the number of cameras displayed on the live viewer panel using a simple selection menu and display up to sixteen cameras simultaneously. The pane layout menu allows operators to have a main camera feed surrounded by smaller camera feeds to focus on a certain camera. Each pane can be simply configured using a drag and drop facility to place the appropriate camera into the required pane.

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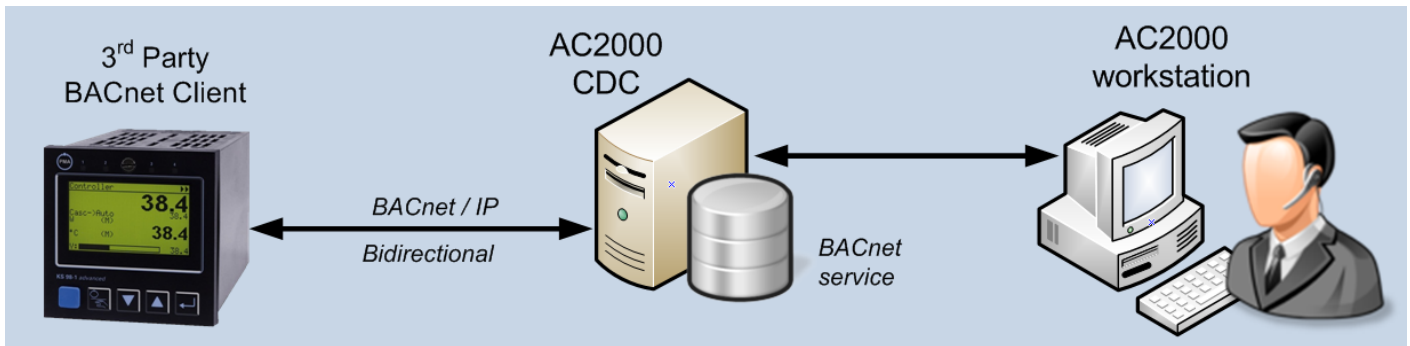
Example Supported BACnet Objects:

The following objects are supported for incoming data, such as from a COVNotification and WriteProperty on Present_Value,

- Binary Input
- Access Door(Reader) Object
- Binary Value Object
- MultiState Value Object

Alarms, Events and Change of Values (COVs)

TThe status_Flags and Event_State Properties are used to indicate the presence of a Fault or Alarm condition. The Door_Alarm_State is used to give more information as to the type of alarm.

Input Properties

The AC2000 Reader and I/O Controller Inputs are represented as Binary Input Objects. Objects of this type have many properties such as ObjectID, Name, Value, State, Text, Time etc. GUI filters allow filtering where long lists of Devices occur.

Bi-directional communication

The AC2000 BACnet service module acts as both BACnet client and server, capable to send and receive unconfirmed COV notifications. Unconfirmed Notifications are sent without subscription.

Multiple third party systems can be added to the AC2000 BACnet Systems table for sending and receiving from. Incoming COVs are mapped to an AC2000 alarm type and thus can be displayed onto AC2000 Security Hub alarm tables and maps.

Configuration

The AC2000 BACnet service is a optional licensed module configured to run on the AC2000 head end server. Included within the AC2000 client application suite is the AC2000 BACnet devices application configuration tool used to map alarms to out going BACnet packages and incoming notifications to AC2000 alarm types.

Requirements

AC2000 and AC2000 AE.
(BACnet interface module is not supported on AC2000 Lite.)

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Ordering Information

Product Code	Description
SWBACNET	BACnet interface licence

Related Products

- AC2000 SE
- AC2000 AE

About Johnson Controls

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