The Simply Smart way to optimize building control and performance

For consultants and specifiers

ComfortPoint® Open Building Management System

Find out more
For more information on ComfortPoint Open BMS and the advantages it brings to your facility, visit comfortpointopen.honeywell.com or contact your nearest representative.

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1985 Douglas Drive North
Golden Valley, MN 55422-3992
1-800-345-6770, ext. 612
honeywell.com
ComfortPoint® Open BMS. Simply Smart.

The Honeywell ComfortPoint Open Building Management System (BMS) is a building automation system with open native BACnet® integration capability, designed to help streamline processes, simplify operations, reduce cost through actions from energy consumption reporting, and deliver results with enhanced consistency.

For both new build and retrofit projects, the powerful, scalable system supports new levels of efficiency and functionality in today’s buildings, while providing an informative and accessible building and energy management system to optimize building performance.

Why specify ComfortPoint Open BMS?

Easy to integrate

- A native BACnet-compliant building management system, ComfortPoint Open is designed to connect and interoperate with other BACnet servers/devices.

Increase client productivity and operational savings

- ComfortPoint Open Manager Workstation combines fast, easy installation with simple access to a standard report and trending library, thereby helping increase operator efficiency.
- ComfortPoint Open offers the Honeywell EasyMobile client, designed for mobile system access. Points and alarms can be controlled and managed from virtually anywhere through web-enabled devices — iPad®, PDA, smartphones.

Reduce energy consumption

- With a large library of HVAC applications, ComfortPoint Open is simple to engineer — helping to maintain consistency, reduce risk and optimize performance for your client.

Sets industry standards

- ComfortPoint Open supports Modbus™, enabling simpler integration of open system devices, including energy reporting and meter management, which is built into the system with trending/reports to track energy performance and help improve efficiency.
- Quick access to Measurement and Verification (M&V) reports for LEED® and other energy certification processes.

Specifying made simple

- ComfortPoint Open is a complete, innovative building management and energy system supported with online specification tools.

Flexibility to grow and expand

- ComfortPoint Open is an easy to manage web-based system that can easily be integrated to other applications, including security management, video surveillance and fire detection, through Honeywell’s integrated facility management system (Honeywell Enterprise Buildings Integrator) to create a platform for future expansion.

Optimize building performance

- ComfortPoint Open is easy to service both on-site and remotely from Honeywell’s Global Service Response Center, ensuring improved system uptime and helping to reduce operational costs for clients.
- ComfortPoint Open can also be remotely connected to Honeywell’s Attune™ Advisory Services for on-site digital signage, advanced building performance analysis and continuous commissioning of the building.

For more information, visit comfortpointopen.com.
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Energy Consumption Dashboard

Meter Profile

Demand Report

ComfortPoint Open Manager Reports

ComfortPoint Open Manager Workstation

ComfortPoint Open Manager

Smartphone Screens
ComfortPoint Open BMS. The System.

Easy to specify, easy to access and easy to use, ComfortPoint Open BMS operates with web technology to deliver innovative building and energy technology solutions.

**Management Level**

**ComfortPoint Open Studio**
- One system-wide engineering configuration tool
- Tested Global Applications Library, based on Honeywell best practice, provides results with enhanced reliability and consistency for higher uptime, improved equipment optimization and lower energy costs
- Subcontractor commissioning tool
- Easy navigation with object-based work space

**ComfortPoint Open Manager/User Interface**
- BACnet Test Laboratory (BTL) listed
- Organized workflow for building operator (HVAC/Energy), and more consistent image and results
- Quick access to system information: > status > trends > reports
- Building control and energy integration
- Easy access and links to equipment status, trends and reports. Context sensitive work area with selectable links which are automatically filtered to only include information related to the equipment being displayed in the main workspace
- Stationary browser (workstation) and zero footprint mobility (PDA) client options

**Enterprise Buildings Integrator with DSA License**
- Security Manager
- Life Safety Manager
- Building Manager
- Digital Video Manager
- Energy Manager

**Hardware**
- Supports BACnet standards (B-AAAC, B-ASC)
- IP connected
- Field Bus adapter — less wire, smaller conduit
- Ability to connect to metering

**Automation and Field Level**

**ComfortPoint Open Plant Controller**
- ComfortPoint Expansion IO
- Digital I/O Module CP-DIO
- Mixed I/O Module
- Panel Bus I/O Modules
- BACnet MS/TP
- Modbus

**ComfortPoint Open Field Bus Adapter**
- ComfortPoint VAV Controller
- ComfortPoint Small Point Controller
- ComfortPoint Open Fan Coil Unit Controller
- ComfortPoint Open LCD Wall Module
- Metering, sub-metering and other devices

**Other Honeywell and third party BACnet devices and BACnet gateways**
- Simple LON FTT-10 and other integration drivers

**Connected to ComfortPoint Open Manager via DSA**

**ComfortPoint CP-IPC**

**ComfortPoint CP-Core**

**ComfortPoint JACE**

**Connected to ComfortPoint Open Manager via BACnet/IP**

**Hardware**

- Supports BACnet standards (B-AAAC, B-ASC)
- IP connected
- Field Bus adapter — less wire, smaller conduit
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ComfortPoint Open BMS.
The System.

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- Stationary browser (workstation) and zero footprint mobility (PDA) client options

**ComfortPoint Open Manager/User Interface**
- Microsoft® Internet Explorer® based workstation client
- Simple displays with easy access to operator resources

**Enterprise Buildings Integrator with DSA License**
- Security Manager
- Life Safety Manager
- Building Manager
- Digital Video Manager
- Energy Manager

**Hardware**
- Supports BACnet standards (B-AAC, B-ASC)
- IP connected
- Field Bus adapter — less wire, smaller conduit
- Ability to connect to metering

**Automation and Field Level**

**ComfortPoint Open Plant Controller**

**ComfortPoint Expansion IO**
- Digital I/O Module CP-DIO

**ComfortPoint Open Field Bus Adapter**

**ComfortPoint VAV Controller**

**ComfortPoint Small Point Controller**

**ComfortPoint Open Fan Coil Unit Controller**

**Metering, sub-metering and other devices**

**ComfortPoint Open LCD Wall Module**

**CP-IO Bus**

**CP-IO Bus**

**Modbus**

**BACnet MS/TP**

**BACnet MS/TP**

**Modbus**

**BACnet MS/TP**

**Modbus**

**Other Honeywell and third party BACnet devices and BACnet gateways**

**ComfortPoint CP-IPC**

**ComfortPoint CP-Core**

**Connected to ComfortPoint Open Manager via DSA**

**Connected to ComfortPoint Open Manager via DSA**

**Simple LON FTT-10 and other integration drivers**

**Connected to ComfortPoint Open Manager via DSA**

**ComfortPoint JACE**

**Other Honeywell and third party BACnet devices and BACnet gateways**

**Web browser**

**Phone/SMS/Email**

**PDA/Smartphone/Tablet**

**Alltune™ Advisory Services**

**Internet**

**ComfortPoint Open Manager/User Interface**
- BACnet Advanced Workstation (B-AWS)
- Image-based install
- Software Update Service (SUS)
- Acronis® Backup and Recovery™
- McAfee® VirusScan® Enterprise

**OR**

**TCP/IP Server**

**Virtual machine**

**ComfortPoint Open Studio Tool**
- One system-wide engineering configuration tool
- Tested Global Applications Library, based on Honeywell best practice, provides results with enhanced reliability and consistency for higher uptime, improved equipment optimization and lower energy costs
- Subcontractor commissioning tool
- Easy navigation with object-based work space

**Global Library**

**HMIWeb Display Builder**

**Management Level Automation and Field Level**

**ComfortPoint Open Studio**
- ComfortPoint Open Studio
- HMIWeb Display Builder
- Global Library

**ComfortPoint Open Manager**
- BACnet Advanced Workstation (B-AWS)
- Image-based install
- Software Update Service (SUS)
- Acronis® Backup and Recovery™
- McAfee® VirusScan® Enterprise
### Plant Controller

**CPO-PC-6A**
- Native BACnet IP Plant Controller
- BTL listed, (B-BC) building controller profile
- Complex to BACnet 135-2010 (v9) Protocol revision
- Four RS485 interfaces for BACnet MS/TP, ModBus, Panel Bus, Field Bus and IO Bus
- Two Ethernet ports
- One RS232 serial port
- 24 VAC power supply

**CPO-IPC**
- Native BACnet IP Plant Controller
- BTL listed, (B-BC) building controller profile
- Complex to BACnet 135-2010 (v9) protocol revision
- Three RS485 interfaces for BACnet MS/TP, ModBus and IO Bus
- One Ethernet port
- One RS232 serial port

### Intelligent Router

**CP-Core**
- Complies to B-BC BACnet device profile
- Complies to BACnet 135-2010 (v9) protocol revision
- Built-in BACnet router
- Can be configured as a BIBM device

### Mixed I/O Module

**CPO-I0-830A**
- Panel rail mounting
- 24 VAC (+/- 20%) or 21...30 VDC power supply
- Overvoltage protection
- Status LED, service LED, power LED
- With screw terminals

**CP-EXP10**
- DIN-rail or wall mounting
- 24 VAC ± 20%, 50/60 Hz, 15 VA
- Mix of 24 input and outputs
- 8 Universal inputs
- 6 Binary inputs
- 6 Analog outputs
- 4 Digital outputs (24VAC tracs with LED)

### Digital I/O Module

**CP-DIO**
- DIN-rail or wall mounting
- 24 VAC ± 20%, 50/60 Hz, 15 VA
- Mix of 32 onboard I/O’s
- 8 Universal inputs
- 8 Binary inputs
- 16 Digital outputs (Triac™ outputs)

### Field Bus Adapter Modules

**CPO-FBA**
- Microprocessor-controlled bus interfaces, providing additional bus capability (with communication and power)
- Supports four connected field devices, such as sensors or actuators
- Plug-and-play functionality
- Screw terminals for fast wiring
- Suitable for wall mounting, DIN-rail mounting, and junction-box mounting
- Two LEDs for visual trouble indication
- Up to 30 modules on a bus

### VAV & SPC II Unitary Controllers

**CPO-FB**
- Native BACnet series of controllers
- BACnet, BTL listed (B-ASC) profile
- Enhanced performance with 32-bit technology
- Use standard VAV/FCU application or flexible custom programming

### FCU Controller

- Configurable FCU controller for two- and four-pipe fan coil units with optional electrical heating coils and damper
- Can control single-, two- or three-speed fans or variable speed fans
- 24VAC/110VAC/230VAC models

### Digital wall module

**CPO-WM**
- Two-wire, non-polarity sensitive, Syk™ bus communicating wall module for use with FCU controllers
- Large, backlit and easy-to-read LCD user interface
- Display of room temperature, room temperature setpoint, fan speed, occupancy mode, occupancy override mode, occupancy override duration, system status and system override command

### ComfortPoint Open Studio

- Powerful processor to support faster I/O scanning
- Flexible and easy configuration with ComfortPoint Open Studio

- One-touch override of room temperature setpoint, fan speed, occupancy and system status
- Mostly language-neutral display, showing many international standardized symbols
ComfortPoint Open BMS.
Technical Data.

### Plant Controller CP-PC-6A
- Native BACnet IP Plant Controller
- BTL listed, (B-BC) building controller profile
- Complies to BACnet 135-2010 (v9) protocol revision
- Four RS485 interfaces for BACnet MS/TP, Modbus and IO Bus
- Two Ethernet ports
- One RS232 serial port
- 24 VAC power supply

- 256 hardware points, 1500 software points, 100 time schedules and 64 control loops
- Built-in BACnet router, no need to add external BACnet router
- Built-in web server for browser connectivity
- LEDs indicating the transmission/reception, alarm LED and power LED
- Built-in advanced diagnostics

### Plant Controller CP-JPC
- Native BACnet IP Plant Controller
- BTL listed, (B-BC) building controller profile
- Complies to BACnet 135-2010 (v9) protocol revision
- Three RS485 interfaces for BACnet MS/TP, Modbus and IO Bus
- One Ethernet port
- One RS232 serial port

- 24 VAC power supply
- 256 hardware points, 1500 software points, 100 time schedules and 64 control loops
- Built-in BACnet router, no need to add external BACnet router
- Built-in web server for browser connectivity
- LEDs indicating the transmission/reception, alarm LED and power LED

### Intelligent Router CP-Core
- Complies to B-BC BACnet device profile
- Complies to BACnet 135-2010 (v9) protocol revision
- Built-in BACnet router
- Can be configured as a BBMD device

- Outstanding performance with 32 bit technology
- Supports 30 unitary controllers per MSTP channel, 90 unitary controllers per CP-CORE
- Supports 30 Modbus devices per Modbus channel, 90 Modbus devices per CP-CORE

### Mixed I/O Module CPDIO-830A
- Panel rail mounting
- 24 VAC (+/- 20%) or 21...30 VDC power supply
- Overvoltage protection
- Status LED, service LED, power LED
- With screw terminals

- Mix of input and outputs to suit virtually any application requirement
- 8 Universal inputs
- 8 Analog outputs
- 12 Binary inputs
- 6 Relay outputs

### Expansion IO CP-EXP10
- DIN-rail or wall mounting
- 24 VAC ± 20%, 50/60 Hz, 15 VA
- Mix of 24 input and outputs
- 8 Universal inputs
- 6 Binary inputs
- 6 Analog outputs
- 4 Digital outputs (24VAC triacs with LED)

- Maximum 15 CP-EXP10 modules per one plant controller
- Powerful processor to support faster IO scanning
- Flexible and easy configuration with ComfortPoint Open Studio

### Digital I/O Module CP-DIO
- DIN-rail or wall mounting
- 24 VAC ± 20%, 50/60 Hz, 15 VA
- Mix of 32 onboard I/O's
- 8 Universal inputs
- 8 Binary inputs
- 16 Digital outputs (Triac™ outputs)

- Enhanced performance with 32-bit technology
- Maximum 15 CP-DIO modules per one plant controller
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### Field Bus Adapter Modules
- Microprocessor-controlled bus interfaces, providing additional bus capability (with communication and power)
- Supports four connected field devices, such as sensors or actuators
- Plug-and-play functionality
- Screw terminals for fast wiring
- Suitable for wall mounting, DIN-rail mounting, and junction-box mounting
- Two LEDs for visual trouble indication
- Up to 30 modules on a bus

- Four models with variety of input and output options:
  - CPDIO-3A (Field Bus Adapter with 2 Universal Inputs and 1 Analog Output)
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  - CPDIO-3A (Field Bus Adapter with 2 Universal Inputs, 1 Analog Output and 1 Digital Output)
  - CPDIO-3B (Field Bus Adapter with 4 Universal Inputs)

### VAV & SPC II Unitary Controllers
- Native BACnet series of controllers
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- ComfortPoint Open Studio online tool
- Quicker VAV balancing with ComfortPoint Open Studio

### FCU Controller
- Configurable FCU controller for two- and four-pipe fan coil units with optional electrical heating coils and damper
- Can control single-, two- or three-speed fans or variable speed fans
- 24VAC/110VAC/230VAC models

- BACnet, BTL listed (B-ASC) profile
- Variety of wall module options
- Mountable to either a panel or a DIN-rail

### Digital wall module CPDIO-TR70E
- Two-wire, non-polarity sensitive, Syk™ bus communicating wall module for use with FCU controllers
- Large, backlit and easy-to-read LCD user interface
- Display of room temperature, room temperature setpoint, fan speed, occupancy mode, occupancy override mode, occupancy override duration, system status and system override command

- One-touch override of room temperature setpoint, fan speed, occupancy and system status
- Most language-neutral display, showing many internationally standardized symbols

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Find out more
For more information on ComfortPoint Open BMS and the advantages it brings to your facility, visit comfortpointopen.honeywell.com or contact your nearest representative.

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