Building Management System Integration Software for C•CURE 9000 v3.00 Release Notes

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Johnson Controls

Contents

Introduction

This document provides important information for installing the Building Management System (BMS) Integration for C•CURE 9000 v3.00, for both server and client machines. In case of discrepancy, the information in this document supersedes the information in any document referenced herein.

Read this document before you install the product.

Product: C•CURE 9000 Building Management System Integration

- Release version: 3.00
- Integration software version: 4.0.0.103

This driver release is qualified with C•CURE 9000 when installed on the following systems:

- victor Unified systems v4.00 (C•CURE v3.00 and victor v6.0)

Integration software overview

This integration provides a generic integration between C•CURE 9000 and Building Management Devices based on BACnet protocol, allows you to configure and control BACnet devices. It provides connectivity to equipment using the BACnet protocol over Ethernet (called BACnet/IP or Annex J). To access devices on other BACnet network types, use the BACnet gateway devices. If the device is based on other protocols for example: N2, then a protocol converter for example: BACnet - N2 router, is needed.

This integration also provides a gateway mechanism for wrapping objects in C•CURE 9000 to BACnet objects. This allows the third party systems to monitor changes in C•CURE 9000 objects through BACnet protocol.

Features

The BMS integration with C•CURE 9000 has the following features:

- Automatic Device Discovery and BACnet object manually import.
- Multi-condition triggers.
- Interaction among devices: Non-BACnet and BACnet.
- BACnet objects animation by widget on Map.
- All changes in building status and value are logged in the journal for future investigative reporting.
- Supports BACnet/IP(Annex J) protocol:
- Supports subscription to the Change of value (COV) event notification for many properties.
- Supports the following Objects, with most properties of the standard object types supported: Analog Input, Analog Output, Analog Value, Binary Input, Binary Output, Binary Value, Multi-state Input, Multi-state Output, Multi-state Value, Schedule and Device.
- Supported Services: Who-Is, I-Am, ReadProperty, ReadPropertyMultiple, WriteProperty, WritePropertyMultiple, SubscribeCOV, SubscribeCOVProperty, ConfirmedCOVNotification, and UnconfirmedCOVNotification. • Acknowledge Event Notification in Alarm.
- BACnet gateway function - map C•CURE 9000 objects to BACnet objects.
- Default gateway templates: iSTAR people counting, Event gateway templates.
- Customized gateway template.
- View monitor objects summary.
- Supports BBMD: BACnet IP Communication across different networks.

- Supports BACnet Schedule: Read and modify BACnet schedules defined in BMS.
- Supports MAP Widget: Added an option to hide object name for text widget, label widget and meter widget.

Qualified Requirements

The C•CURE 9000 BMS integration has the same hardware, software, and disk space requirements as C•CURE 9000. If the target computer meets the requirements to install C•CURE 9000, then it meets BMS Integration Requirements

Software Requirements

The C•CURE 9000 BMS integration requires the following software for C•CURE 9000 and BACnet Protocol:

- C•CURE 9000 Security and Event Management System version 3.00
- BACnet protocol : ANSI/ASHRAE 135-2010

Qualified Hardware

The driver supports the following devices:

- Beckoff: CX8091
- Contemporary Control Systems Inc: BASR-8M
- Protocol: ANSI/ASHRAE 135-2010

Qualified Operating Systems

This driver is compatible with the following operating systems:

64-bit operating systems:

- Windows Server 2019
- Windows Server 2016 R2
- Windows 10 Professional
- Windows 10 Enterprise

Installation package contents

The table below lists the contents of the installation package:

Table 1: Table 1: Contents of Installation

File	Description
BMSInstaller.msi	BMS Integration installation file
Setup.exe	BMS Integration software setup file

Pre-Installation

Before you install the integration software, ensure that your system meets the following requirements:

- You must have the appropriate Windows permissions.
- You must be a member in the local Administrators group or have equivalent privileges.
- Close all applications to avoid problems during installation.

Copy the BMS Integration installation software from the C•CURE 9000 v3.00 installation media. You can also download the BMS Integration installation software from the Software House website.

Installing the BMS integration software

1. After you have fulfilled the pre-installation requirements, right-click the Setup.exe file and select **Run as administrator**.
2. The Install Wizard begins installing the software, and the BMS Integration Welcome screen appears. Click **Next**.
3. Select the **I accept the terms of the license agreement** check box, and then click **Next**.
4. Click **Next** in the Custom Setup dialog box.
   - **Windows authentication credentials of current user** – this is the default option.
   - **Server authentication using the Login ID and password below** – if you previously configured an SQL server, you can create a Login ID and Password to use as authentication credentials for the SQL database.
5. Click **Next** to continue with the installation. The **Ready to Install the Program** dialog box opens.
6. Click **Finish** to complete the Installation.

Post-Installation

About this task:
After you install the integration software, the CrossFire Framework Service, CrossFire Server Component Framework Service, and the SoftwareHouse CrossFire BACnet Driver Service must be running. If the server services are not running, follow the steps to start them:

1. From the **Start** menu, select **Start>All Programs>Software House>C•CURE 9000>Server Configuration**.
2. On the **Services** tab, in the **Framework Services** pane, click the **Start** button beside the CrossFire Framework Service and the **CrossFire Server Component Framework Service**.
3. Wait for the status of Cross Framework Service and the CrossFire Server Component Service to change to **Running**.
4. In the **Extension Services** pane, select the **Enabled** check box for the **SoftwareHouse CrossFire BACnet Driver Service** and then click the **Start** button.

What to do next:

ⓘ **Note:** After the status of the Crossfire Framework Service, CrossFire Server Component Service, and the SoftwareHouse CrossFire BACnet Driver Service changes to Running, you can configure BACnet Integration objects in C•CURE 9000.

Compatibility Matrix

The below table lists the software compatibility matrix information:

Table 2: Compatibility Matrix

C•CURE version 3.00	
Partner	BMS
Partner Product	Beckoff, Contemporary Control System Inc
Partner Product version	Beckoff: CX8091,Contemporary Control Systems Inc: BASR-8M
Integration driver version	4.0.0.103
C•CURE License option	Building Management System
C•CURE Enterprise certified	Yes
C•CURE Redundancy certified	No
Supported Server OS	All OS supported by C•CURE Server
Supported Client OS	All OS supported by C•CURE Client
Supported SQL	All SQL supported by C•CURE Server

Known issues and limitations

This section lists all the known issues and limitations in this release:

- The context menu for BACnet device and object on navigation tree is different from that on the dynamic view.
- If you use the BACnet protocol, BMS integration cannot work simultaneously with MZX integration.
- Do not save and close auto discovery of BACnet devices and objects before it has completed.
- Do not run auto discovery of BACnet devices simultaneously on multiple clients.
- When only partial objects are imported, it is recommend to use the Import Device Objects option from the context menu to manually import device objects instead of auto discovery.
- When there are large numbers of BACnet devices and objects, devices can change from online to offline and then back to online. **Workaround:** To avoid this issue, increase the poll period interval.
- BACNet devices and victor application server must be in the same network subnet because BACNet devices can broadcast only in a local area network.

Issues Resolved

The following table lists the defects fixed in this version of the software:

Table 3: Contents of Installation

SPAR Number	**SPAR Description**
672163	Unable select all iSTAR inputs for mapping to his gateway.
679601	Gateway devices are not resolving correctly.