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Bosch Receiver Integration for C•CURE 9000 User Guide

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Access Control and Event Management

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Preface

The *Bosch Receiver Integration Guide* is for new and experienced security system users who want to learn to use this product for the Security Management System.

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Finding More Information

You can access C•CURE 9000 manuals and online Help for more information about C•CURE 9000.

Manuals

C•CURE 9000 software manuals are available in Adobe PDF format on the C•CURE 9000 DVD.

You can access the manuals if you copy the appropriate PDF files from the C•CURE 9000 Installation DVD English\Manuals folder.

The available C•CURE 9000 and Software House manuals are listed in the *C•CURE 9000 Installation and Upgrade Guide*, and appear as hyperlinks in the online.pdf file on the C•CURE 9000 DVD English\Manuals folder.

These manuals are also available from the Software House Member Center website (http://www.swhouse.com/TechnicalLibrary/TechLibSW.aspx).

Online Help

You can access C•CURE 9000 Help by pressing F1 or clicking Help from the menu bar in the Administration/Monitoring Station applications.

Conventions

This manual uses the following text formats and symbols.

Convention	Meaning
Bold	This font indicates screen elements, and also indicates when you should take a direct action in a procedure. Bold font describes one of the following items: • A command or character to type, or • A button or option on the screen to press, or • A key on the keyboard to press • A screen element or name
blue color text	Indicates a hyperlink to a URL, or a cross-reference to a figure, table, or section in this guide.
Regular italic font	Indicates a new term.
<text>	Indicates a variable.

The following items are used to indicate important information.

NOTE	Indicates a note. Notes call attention to any item of information that may be of special importance.
TIP	Indicates an alternate method of performing a task.
	Indicates a caution. A caution contains information essential to avoid damage to the system. A caution can pertain to hardware or software.
	Indicates a warning. A warning contains information that advises users that failure to avoid a specific action could result in physical harm to the user or to the hardware.
	Indicates a danger. A danger contains information that users must know to avoid death or serious injury.

Software House Customer Support Center

Telephone Technical Support

During the period of the Agreement, the following guidelines apply:

- Software House accepts service calls **only** from employees of the Systems Integrator of Record for the installation associated with the support inquiry.

Before Calling

Ensure that you:

- Are the Dealer of record for this account.
- Are certified by Software House for this product.
- Have a valid license and current Software Support Agreement (SSA) for the system.
- Have your system serial number available.
- Have your certification number available.

Hours	Normal Support Hours	Monday through Friday, 8:00 a.m. to 8:00 p.m., EST. Except holidays.
	Emergency Support Hours	24 hours/day, seven days a week, 365 days/year. Requires Enhanced SSA “7 x 24” Standby Telephone Support (emergency) provided to Certified Technicians. For all other customers, billable on time and materials basis. Minimum charges apply – See MSRP.
Phone	For telephone support contact numbers for all regions, see http://www.swhouse.com/support/contact_technical_support.aspx.	

1

Introduction

This chapter introduces to integration between the Software House C•CURE 9000 and the Bosch Receiver.

In this chapter:

Overview and Features 10
Architecture 11

Overview and Features

The C•CURE 9000 Bosch receiver Integration provides integration with the Bosch System, allowing customers to monitor their systems using C•CURE 9000 Monitoring Station. Building upon the lineage of Bosch monitoring station receivers, the single-line IP receiver is designed for proprietary applications such as college or university campuses, gated communities or condominiums, dealers monitoring account system status, private corporate security, and government facilities. The receiver calendar stamps all alarm data it receives before transmitting it to an alarm receiving automation system through UDP. Alarm data can also be transmitted directly to a printer using the parallel printer port and be viewed on the LCD screen on the front of the receiver. The scope of this integration includes only UDP communications.

The scope of this integration also includes support for the Bosch (Radionics) D6600 and D6100 alarm receiver units.

These units also support the standard SIA, CID, and 4x2 protocol for communications to the C•CURE 9000 application software and the software that is supported with this integration.

4x2 protocol is made up of a 4 digit panel account number followed by a two digit alarm code. For example: aaaaTP where aaaa is in the hexadecimal range of 0000 to FFFF and T is in the hexadecimal range of 0 to F, and P is in the hexadecimal range of 0 to F.

Features include:

- Security Industry Association (SIA), Contact ID (CID), and 4x2 protocols are supported for communication between the Boshreceiver, and in C•CURE 9000.
- Supports multiple receiver configurations.
- Supports Alarm Category configuration.
- CSV and XML import of Alarm Points are supported.
- Supports TLS 1.2 for security.

Architecture

The objective of the C•CURE 9000 Bosch Receiver Integration software is to provide a standard interface between the Intrusion panels and C•CURE 9000. The receiver receives events from different kinds of intrusion panels and sends to the application software (C•CURE 9000 server). Intrusion panels and the receiver communicate through telephone dial up, GSM or IP, and then the events get exchanged between panel and the receiver in the form of SIA protocol, ContactID protocol or 4x2 protocol format. Application software establishes UDP communication with the receiver on port number 1025 - 65565, then the hand shaking packets get exchanged between receiver and software continuously till there are events in the receiver to be sent to the software. Application software parses the received events and log journal messages to the system monitoring station.

You can access the Bosch Integration interface on C•CURE 9000 Administration Client by clicking **Hardware Pane**. You can access an existing Bosch or create a new one in the **Hardware Pane**.

Figure 1: Bosch D6100 Receiver Integration Architecture

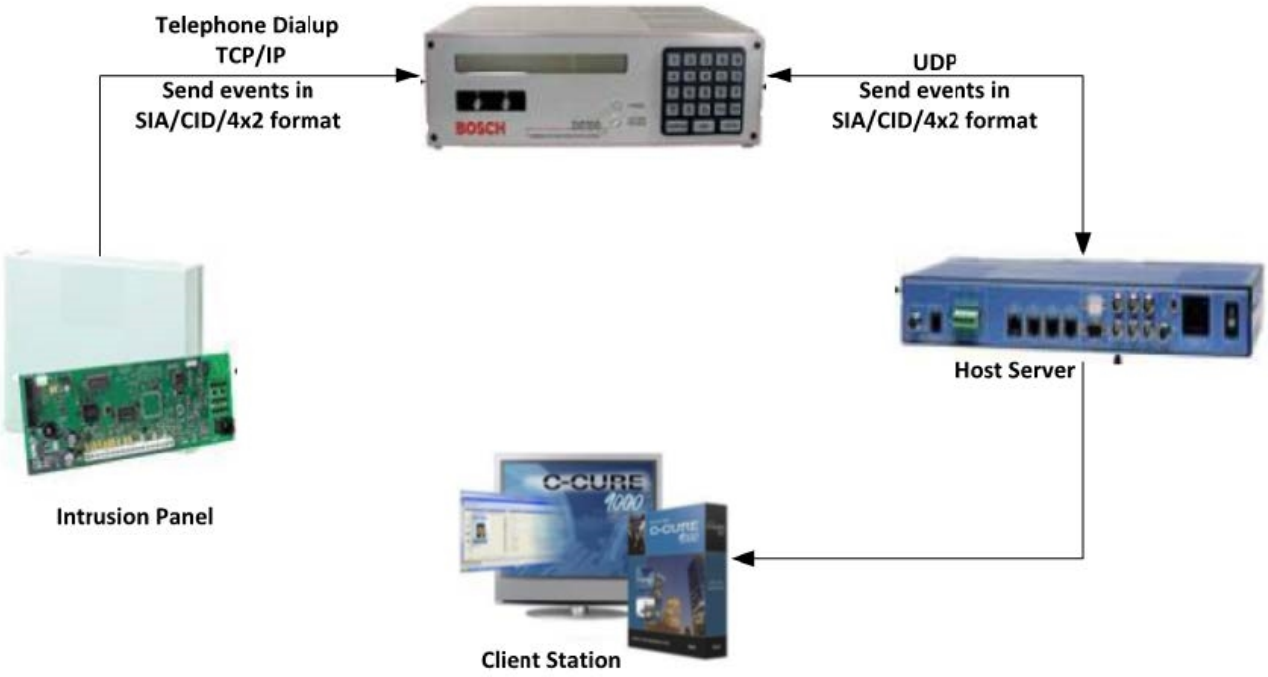
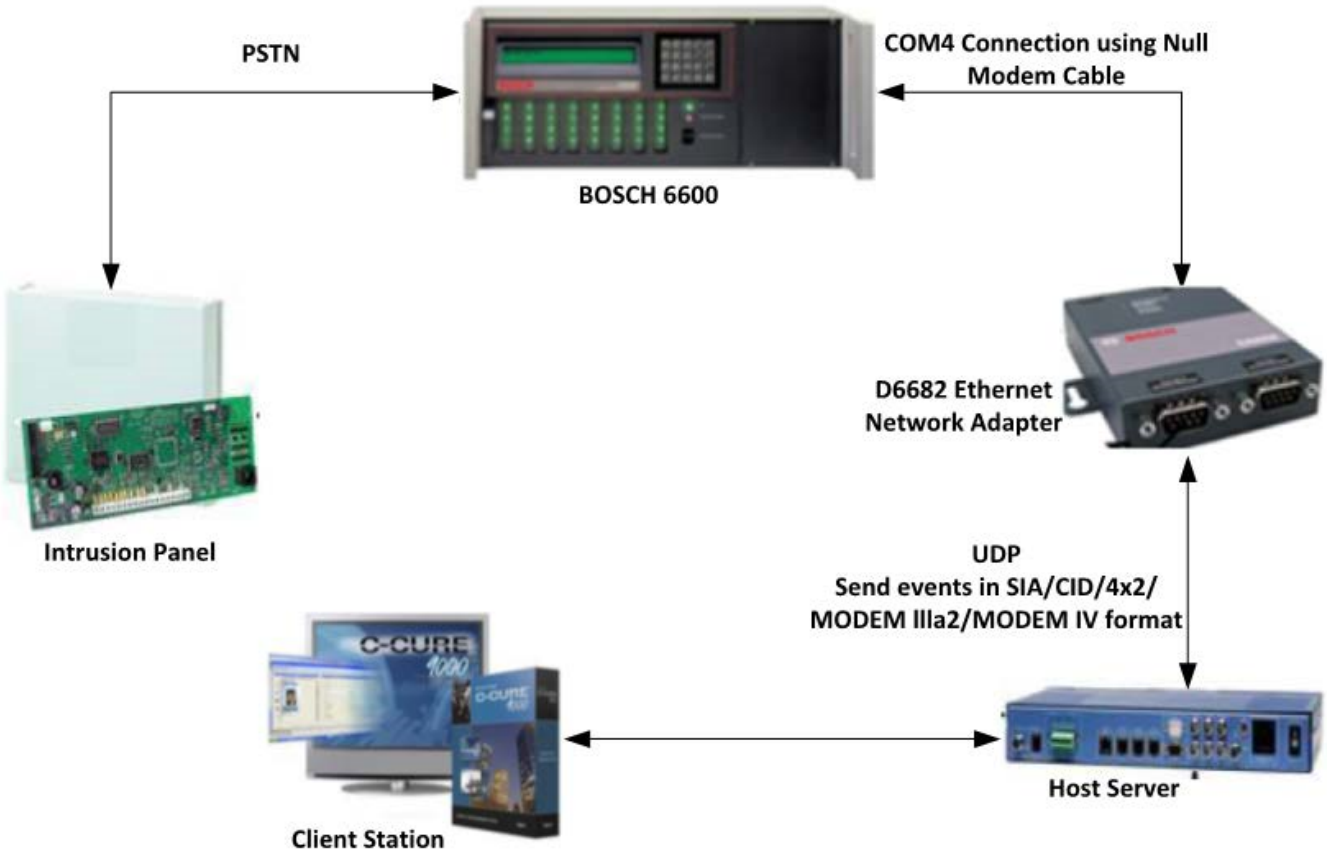


Figure 2: Bosch D6600 Receiver Integration Architecture



2

Installation

This chapter provides instructions on how to install the Bosch receiver Integration software.

In this chapter

Installation Overview 14
Getting the Integration Software 15
Installation 16
Upgrading the Bosch Receiver Integration 20
Bosch Receiver Configuration File 21
Starting the Server Services 22
Uninstall 23

Installation Overview

Install C•CURE 9000 on your target computer before you install C•CURE 9000 Bosch Receiver Integration software. For information on how to install C•CURE 9000, see the *C•CURE 9000 Installation and Upgrade Guide*.

The Bosch Receiver Integration has client and server components similar to the C•CURE 9000 system.You must install the client components on the every computers that run C•CURE 9000 client applications and the server components on the server computer.

A wizard prompts you to install the C•CURE 9000 Bosch Receiver Integration software. Perform the basic installation process on each computer in your C•CURE 9000 system. Close all the C•CURE 9000 and the anti virus applications on the client workstations before the installation.

Table 1 lists the steps to install and register the C•CURE 9000 Bosch Receiver Integration software on each computer in your C•CURE 9000 system.

Table 1: Standard Installation Tasks

Task	See...
1. Install C•CURE 9000.	*C•CURE 9000 Installation and Upgrade Guide.*
2. Close any open applications and disable virus checking software.	
3. Perform the Pre-installation steps.	Before You Begin on Page 14 NOTE: Stop the Crossfire service if C•CURE is already installed.
4. Get the e Bosch Receiver o Integration software..	Getting the Integration Software on Page 15
5. Install the Bosch Receiver Integration software.	Installation Overview on Page 14
5. Verify the license for Bosch Integration by running the License program on your server.	*C•CURE 9000 Installation and Upgrade Guide*
6. Start the Server services and the Bosch Driver Service.	Starting the Server Services on Page 22

Before You Begin

You should perform the following pre-installation steps described below:

Pre-installation Steps

- If you are installing Bosch Receiver Integration on a corporate network, be sure to coordinate with your corporate network administrator.
- To perform the installation, you must have the appropriate Window's permissions. You must be in the local Administrators group, or have equivalent privileges. See the Microsoft Operating System documentation or your system administrator for more information.

Getting the Integration Software

The Bosch Receiver Integration software is located on the C•CURE 9000 2.30 DVD in the **Integrations\Intrusion\Bosch** folder, and can also be downloaded from the Software House website.

To Download the Bosch Receiver Integration Software from the Software House Website

1. Open a browser and navigate to www.swhouse.com.
2. Select **Products**, and then select **Software Downloads** in the list.
3. When the login page opens, log in. If you do not have account, you must create one.
4. On the Software Downloads page, select the "**Software House Connected**" link.
5. Select **Intrusion** from the list.
6. When the Intrsion Driver Downloads list is displayed on the right hand of the page, select the Bosch Receiver driver link for the version of C•CURE 9000 that you have installed.
7. Unzip the files to folder on your local computer, or to a shared drive on the network.

Installation

You can install C•CURE 9000 Bosch Receiver Integration software on a local computer from a shared drive over a network.

To Install the Bosch Receiver Integration from a Local Drive(DVD or Download)

1. Log into the Server or Client with Administration privileges.
2. Navigate to the folder that contains the installation software.
3. Navigate to the **Integrations\Intrusion\Bosch** folder.

To Install the Bosch Receiver Integration from a Network Drive

1. Log into the Server or Client machine with the Administration privileges.
2. Map the shared drive (download area where you copied the Bosch Receiver software integration folder).

Running the Setup Program

To Run the Installation Program

NOTE

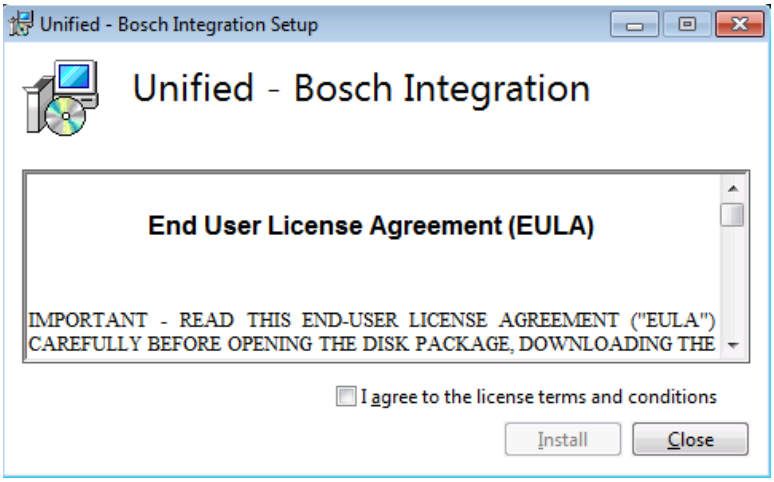
Before installing the Bosch Receiver Integration, follow the below steps:

1. Close the C•CURE 9000 Administration Station and Monitoring Station.
2. Open the C•CURE 9000 Server Configuration Application and stop the following server services:
   - CrossFire Framework Service
   - CrossFire Server Component Framework Service
3. Close the C•CURE 9000 Server Configuration Application.

1. Open the **Bosch** folder and double-click on the **Bosch _Integration.exe** file.

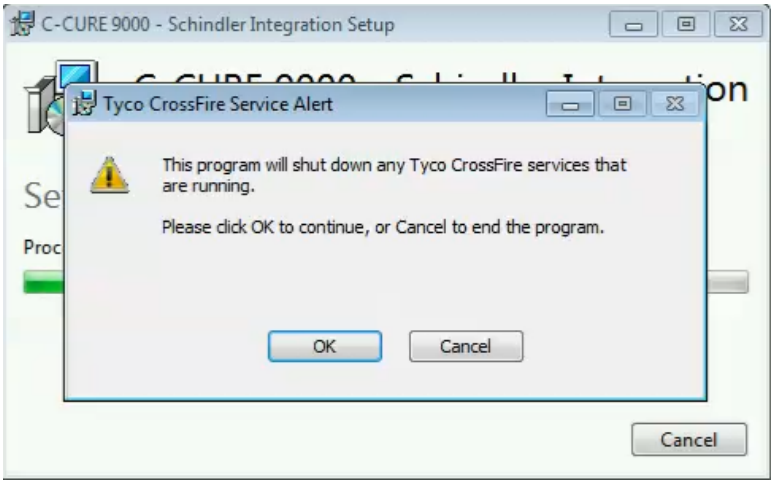
   The **End User License Agreement** dialog box, as shown in Figure 3 on Page 16, appears.

Figure 3: License Agreement Dialog Box



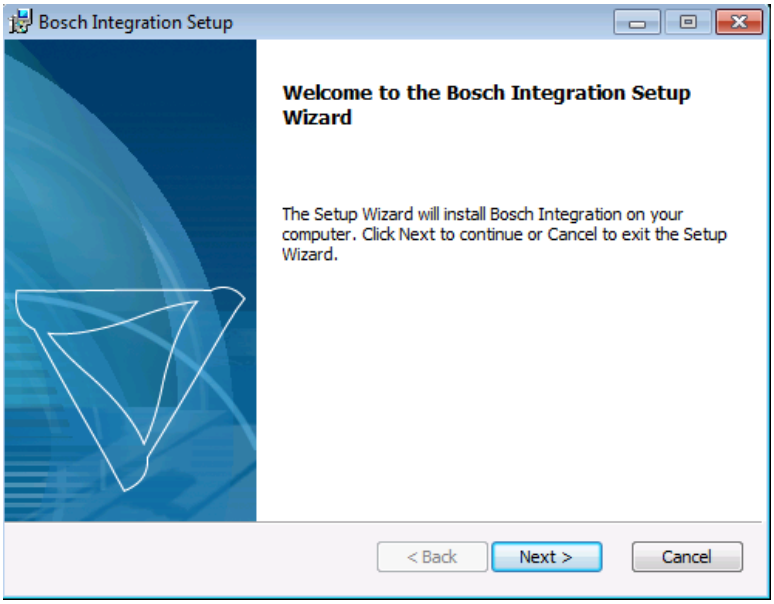
2. Select the **I agree to the license terms and conditions** check box, and then click **Install**.
   For server installations running CrossFire service, the **Tyco CrossFire Service Alert** dialog box, as shown in Figure 4 on Page 17, appears.

Figure 4: Tyco CrossFire Service Alert Dialog Box



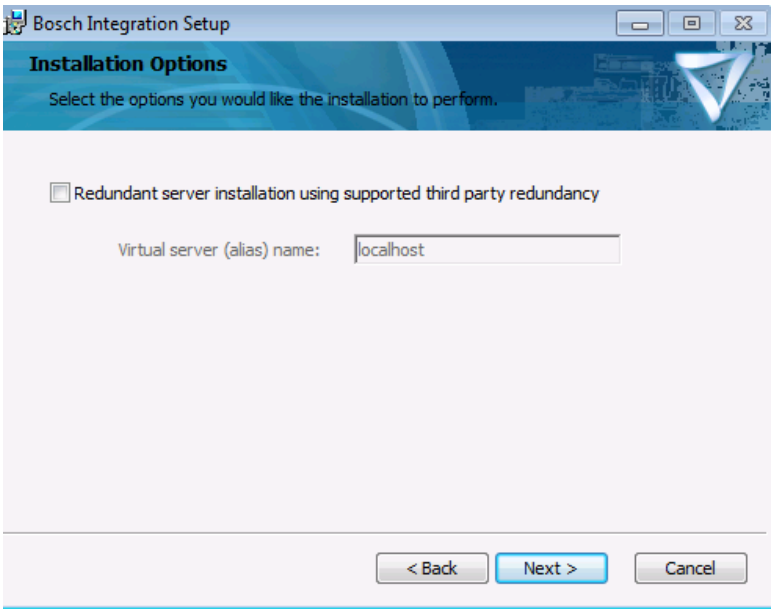
3. Click **OK** to continue with the installation.
   The **Welcome to the Integration Setup Wizard**, as shown in Figure 5 on Page 17, appears.

Figure 5: Welcome to the Integration Setup Wizard



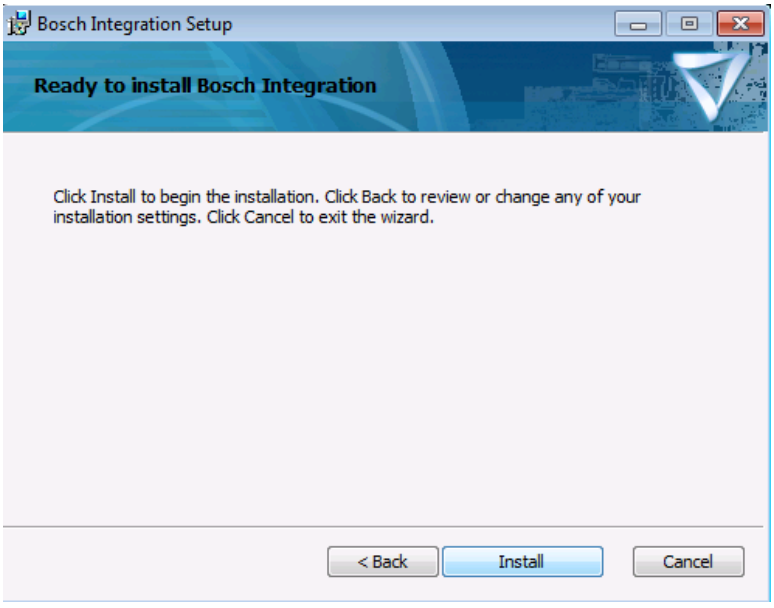
4. Click **Next** to install the Integration.
   The **Installation Options** dialog box, as shown in Figure 6 on Page 18, appears.

Figure 6: Installation Option Dialog Box



5. If you choose to enable the driver for redundancy, select the **Redundant server installation using supported third party redundancy** check box and enter the Virtual sever (alias) name. Otherwise, just click **Next**.
   The **Ready to Install the Integration** dialog box, as shown in Figure 7 on Page 18, appears.

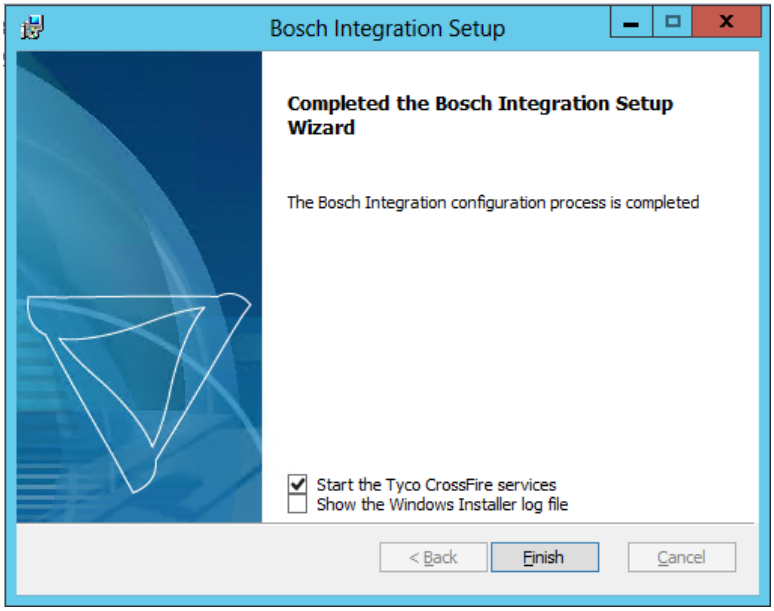
Figure 7: Ready to Install the Integration Dialog Box



6. Click **Install** to start the installation or click **Back** to modify the installation settings.

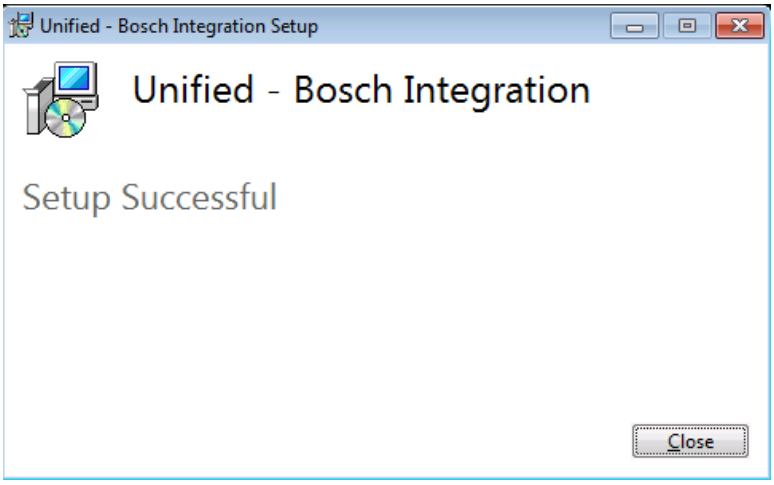
   After a few minutes, the **Completed the Integration Setup Wizard** appears, as shown in Figure 8 on Page 19.
   If you select **Cancel**, installation will roll back to clean state.

Figure 8: Completed the Integration Setup Wizard



7. Click **Finish** to exit the Setup Wizard.
   The **Setup Successful** dialog box, as shown in Figure 9 on Page 19, appears.

Figure 9: Setup Successful Dialog Box



8. Click **Close** to exit the Installation.

NOTE

For the redundant environment, if you have not provided the Virtual sever (alias) name during installation or want to modify the Virtual sever (alias) name after installation, do the following:

1. Navigate to the folder .../**Tyco/CrossFire/ServerComponents**.
2. Open the **Bosch Receiver Driver Service.exe** file,
3. Scroll down to the client section and for all the **<endpoints>** change the **localhost** to the required Virtual sever (alias) name except for the endpoint name="TraceViewerURI".

Upgrading the Bosch Receiver Integration

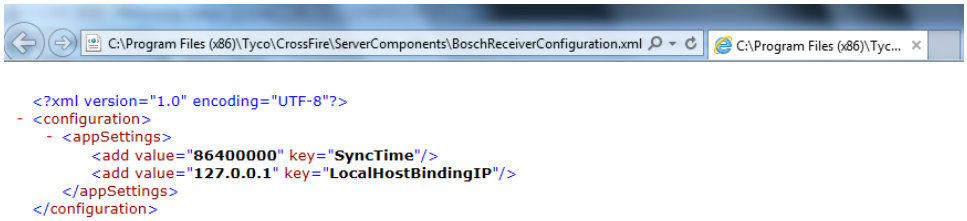
- To upgrade the Bosch Receiver integration from 2.70 to 2.90, upgrade C•CURE 9000 v2.70 to C•CURE 9000 v2.90 and then install the Bosch Receiver 2.90 integration.
- To upgrade the Bosch Receiver integration from 2.80 to 2.90, upgrade C•CURE 9000 v2.80 to C•CURE 9000 v2.90 and then install the Bosch Receiver 2.90 integration.

Bosch Receiver Configuration File

This section describes the Sync Time and the LocalHostBinding IP elements that can be changed in the Bosch Receiver Configuration file.

NOTE Changes to the configuration file requires a driver restart.

The driver installation configuration file, **BoschReceiverConfiguration.xml**, is installed in Tyco\CrossFire\ServerComponents.



SyncTime

The default value is 86400000 milliseconds, which means that the receiver will synchronize time with the C•CURE 9000 server every 24 hours if the “Synch Time” checkbox is selected in the **Receiver Editor General** tab.

Example:

To synchronize time every 4 hours, the **SyncTime** element in configuration file will need to be changed to 14,400,000 milliseconds.

If you are experiencing "Time out of Sync" issues, you can change this setting to try to resolve the issue.

LocalHostBindingIP

The driver automatically binds with the first detected IP address when it is installed. If the IP address does not match the IP address configured in the receiver hardware, communication will not be established.

A system running with three network cards, each having a different subnet, can be used to communicate as below:

- First Network Card- Access Control
- Second Network Card- Video System
- Third Network Card- Intrusion System (Bosch Receiver)

In above case, you need to change the IP address in the configuration file to the IP address of the third network card for successful communication with the Bosch receiver. This is required because the Bosch receiver (physical hardware) needs to be configured with a specific IP address for connection.

For the system containing a single network card/single IP address, the default setting works and the Bosch driver services automatically bind with the IP address.

Starting the Server Services

Before configuring the Bosch Receiver integrationn object, the CrossFire Framework Service, CrossFire Server Component Framework Service, and the Bosch Receiver Integration Service must be running.

To Start the Server Services

1. From the Start Menu, select **Start>All Programs>Tyco>Server Configuration**. The Server Configuration Application opens.
2. Click the **Services** tab.
3. If the Status is displayed as “Stopped” for the **CrossFire Framework Service** under Framework Services, click **Start**.
4. If the Status is displayed as “Stopped” for the **CrossFire Server Component Framework Service** under Framework Services, click **Start**.
5. After the CrossFire Framework Service and CrossFire Server Component Service displays a status of “**Running**”, click the **Server Components** tab.
6. If the Status is displayed as “Stopped” for the **BoschDriver Service** in Extension Services, click in the **Enabled** check box and then click **Start**.
7. When the status of the Bosch Driver Service changes to **Running** you can use the Bosch Driver Integration software.

NOTE By default the Bosch Receiver Service will be installed in **Automatic** mode. For a Redundancy System Bosch Driver Service has to be set to **Manual** mode.

Uninstall

The Uninstall removes all software components that were installed on the computer by the Bosch Receiver integration installation. Once the uninstall process completes, the computer will be in “clean” state.

This section describes how to uninstall the Bosch Receiver System integration from the Server computer and Client computers of your security system on a Windows 7 operating system. For additional operating systems, please refer to your Microsoft Windows documentation for instructions to access the Add and Remove programs.

NOTE Uninstalling this integration does not automatically removes objects that were configured in the C•CURE 9000 using it. Before you proceed with this uninstall, you MUST manually remove the objects from C•CURE 9000 to avoid potential issues with functions, such as partition deletion. Unless you intend to reinstall the integration and continue using it, please ensure that the objects are deleted before removing the integration.

NOTE Please be advised that the Bosch Receiver integration will shut down and restart the Server Services. Therefore, the Bosch Receiver integration uninstall should be planned accordingly.

Uninstalling C•CURE 9000 Bosch Receiver Integration

To Uninstall C•CURE 9000 Bosch Receiver Integration

1. Close the C•CURE 9000 Administration Workstation and the Monitoring Station.
2. Open the C•CURE 9000 Server Configuration Application, and stop the following server services:
   - CrossFire Framework Service
   - CrossFire Server Component Framework Service
   - Bosch Driver Service
3. Close the C•CURE 9000 Server Configuration Application.
4. From the Windows Start menu, select **Control Panel> Programs>Programs and Features**.
5. Right-click the **C•CURE 9000 Bosch Integration** and select **Uninstall.**
   The **Modify Setup** dialog box appears.
6. Click **Uninstall**. On the Drop Database window, select one of the following options:
   - Click **Yes** to delete the database used in the Bosch integration.
   - Click **No** to retain Bosch integration tables

NOTE The **Start the Tyco CrossFire services** check box is selected by default. If this check-box is not selected, then the CrossFire services will not start automatically.

7. Click **Finish** to exit the uninstall program.
   The **Setup Successful** dialog box appears.

3

Configuring the Receiver to Communicate with the C•CURE 9000

This chapter provides the instructions to configure the Bosch 6600 Receiver and the Bosch 6100 Receiver to communicate with the C•CURE 9000.

In this chapter:

Bosch 6600 Receiver Configuration 25
Bosch 6100 Receiver Configuration 27

Bosch 6600 Receiver Configuration

This section describes the configurations that must done in the Bosch 6600 Receiver to be able to communicate with the C•CURE 9000.

Bosch D6882 Ethernet Network Adapter Telnet Configuration

Table 2 on Page 25 lists the hardware Telnet settings.

Table 2: Bosch D6882 Ethernet Network Adapter Telnet Configuration Settings

Parameter	Setting
Baud Rate	38400
I/F Mode	4C
Flow	00
Port	The Alarm Port must be between 1025 and 65535.
Connect Mode	CC
Datagram Type	02

Bosch D6600 Receiver Configuration

Table 3 on Page 25 lists the hardware configuration settings.

Table 3: Bosch D6600 Receiver Configuration

Parameter	Section	Settings	Comments
Output Format	2.5.15	2	
RS232 Direct Access Permission	4.5.9	0	
COM4 Network Adapter	6.1.5	2	• When connecting to a network adapter, this value must be set to 1. • When connecting the PC running the D6200 to RS232, this value must be set to 0. • If the D6600 is connected with D6682 then the value must be set to 2.
COM4 Network Encryption Enabled	6.1.6	0	
Network Automation Connection	6.3.1	(xxx).(xxx).(xxx).(xxx)	Provide the IP address of the PC where the Bosch integration is installed.
Port	6.3.2	(xxxx)	The Bosch Receiver port number must match the port number configured in the C•CURE 9000. Default:10000

Table 3: Bosch D6600 Receiver Configuration (continued)

Parameter	Section	Settings	Comments
Polling Interval	6.3.3	30	
Retry Number	6.3.4	4	
ACK Wait	6.3.5	04	
Network Automation Output Format	6.3.6	2	
Device	6.3.7	1	

Bosch 6100 Receiver Configuration

This section describes the configurations that must done in the Bosch 6100 Receiver to be able to communicate with the C•CURE 9000.

Bosch D6100 Receiver Using Telnet

Table 4 on Page 27 lists the hardware Telnet settings.

Table 4: Bosch D6100 Receiver Telnet Configuration Settings

Parameter	Setting
Baud Rate	38400
I/F Mode	4C
Flow	00
Port	The Alarm Port must be between 1025 and 65535.
Connect Mode	CC
Datagram Type	02

Table 5 on Page 27 lists the hardware configuration settings.

Table 5: Bosch D6100 Receiver Configuration

Parameter	Section	Settings	Comments
Output Format	2.5.15	2	
RS232 Direct Access Permission	4.5.9	0	
COM4 Network Adapter	6.1.5	2	This parameter is not present in the Bosch 6100 Receiver, This parameter can configured from the D6200 programming software.
COM4 Network Encryption Enabled	6.1.6	0	This parameter is not present in the Bosch 6100 Receiver. This parameter can configured from the D6200 programming software.
Network Automation Connection	6.3.1	(xxx).(xxx).(xxx).(xxx)	Provide the IP address of the PC where the Bosch integration is installed.
Port	6.3.2	(xxxx)	The Bosch Receiver port number must match the port number configured in the C•CURE 9000. Default:10000
Polling Interval	6.3.3	30	
Retry Number	6.3.4	4	
ACK Wait	6.3.5	04	

Table 5: Bosch D6100 Receiver Configuration (continued)

Parameter	Section	Settings	Comments
Network Automation Output Format	6.3.6	2	
Device	6.3.7	1	

4

Receiver Configuration

This chapter provides information about configuring the Bosch Receiver in the C•CURE 9000.

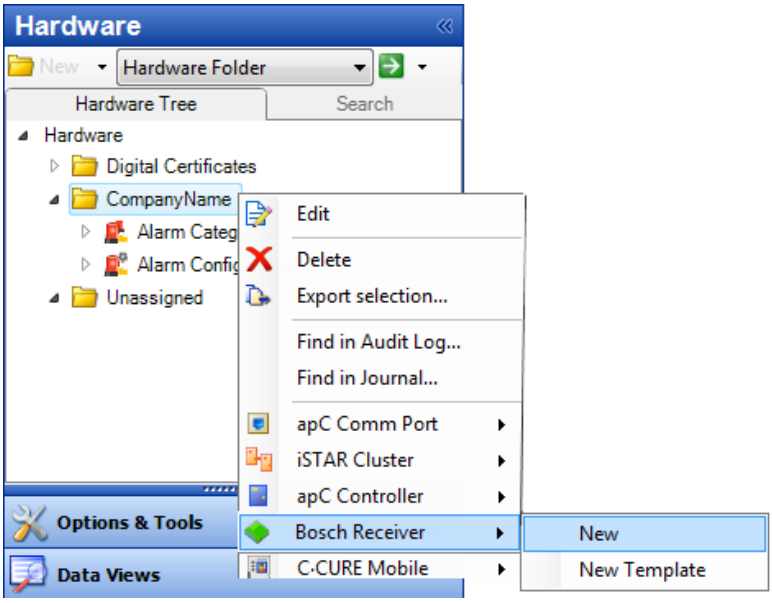
In this chapter

Accessing the Bosch Receiver Tree 30
Creating a Bosch Receiver Template 31
Configuring the Receiver 32

Accessing the Bosch Receiver Tree

This section shows you how to access the Bosch configurations in the C•CURE 9000 Hardware tree. The folder called Company Name contains the Bosch receiver.

Figure 10: Bosch Tree



Creating a Bosch Receiver Template

You can create a new Bosch Receiver template to store commonly used settings for multiple Bosch Receiver. You can use this template with the stored field settings for reference to create similar Bosch Receiver.

To Create a Bosch Receiver Template

1. In the **Navigation** pane of the Administration Workstation, click **Hardware** to open the **Hardware** pane.
2. Right-click the BoschBosch Receiver folder in the Hardware Tree. Select **Receiver>New Template** from the context menu to open the Bosch Receiver (Template) Editor in **General** tab.
3. See Configuring the Receiver on Page 32

NOTE The IP Address field is disabled.

4. Click **Save and Close** to save the new Bosch Receiver template. Alternatively, if you want to save this template and then create a new one, click **Save and New**
   The saved Bosch Receiver template appears under Templates on the context menu.

Configuring the Receiver

The Bosch Receiver Editor, shown in Figure 11 on Page 32, allows you to configure receive and transmit alarm data to C•CURE 9000 monitoring station.

See the following for more information:

- Accessing the Bosch Receiver Editor on Page 32
- General Tab on Page 32
- Message Delivery Tab on Page 35
- Triggers Tab on Page 36
- Status Tab on Page 38
- State Images Tab on Page 39

Accessing the Bosch Receiver Editor

To Access the Bosch Receiver Editor

1. In the **Navigation** pane of the Administration Workstation, click **Hardware** to open the **Hardware** pane.
2. Right click **Company Name** folder and create **Bosch Receiver** folder.
3. Right-click the Bosch Receiver folder in the Hardware Tree and select **Bosch Receiver>New** from the context menu. The **Bosch Receiver** Editor opens, as shown in Figure 11 on Page 32.
   By default, the **Bosch Receiver** Editor opens with the **General** tab.

General Tab

The General tab, shown in Figure 11 on Page 32, allows you to set up the timezone and communication for the receiver.

Figure 11: Receiver Editor - General Tab

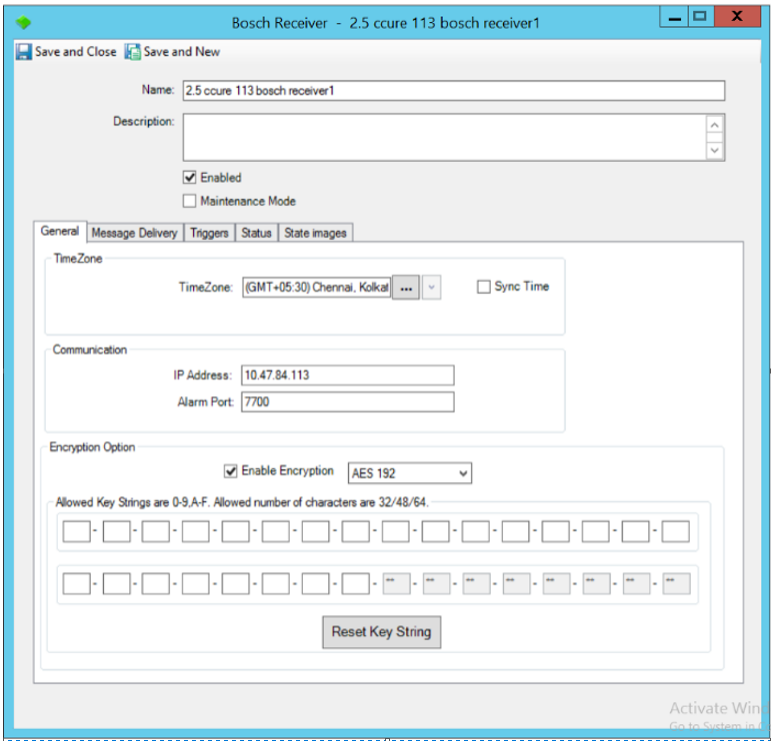


Table 6 on Page 33 for definitions of the fields and buttons on the Bosch Receiver **General** tab.

Table 6: Receiver Editor - General Tab

Fields/Buttons	Descriptions
Name	Enter a unique name, up to 100 characters long, to identify the receiver.
Description	Enter a description, up to 500 characters, to identify the receiver
Enabled	If enabled, C•CURE 9000 attempts to communicate with the receiver.
Maintenance Mode	Select the Maintenance Mode check box to limit information, about the object, displayed on the Monitoring Station. Maintenance Mode only affects what is reported at the Monitoring Station. For more information "Maintenance Mode Overview" on page 40
Time Zone	
Time Zone	Click browse ... and select the appropriate time zone of the receiver location from the Time Zone browsing window, for example, (GMT - 6.00) Central America.
Sync Time	Select or Deselect the checkbox to turn the driver's time synchronization commands on and off. The Sync time value is passed from the Configuration file (SurgardReceiverConfiguration.xml or BoschReciverConfiguration.xml). The default value is 86400000 milliseconds. When the time is synchronized, it will be displayed in the receiver screen. Path: \..*CrossFire**ServerComponents*
Communication	
IP Address	Enter the IP address of the receiver, for example, 10.51.62.123.
Alarm Port	This field is read-only. The receiver communicates with port number 1025. Enter the port number to communicate with alarm receivers. The alarm port should be between 1025 ad 65535.
Encryption Option	
Enable Encryption	This check-box enables the encryption in the Bosch Integration driver. All the communication with the Bosch Receiver will be encrypted using AES 128/192/256 bits.
Drop-down (Encryption Type)	Select the required encryption type (AES 128 or AES 192 or AES 256) from the drop-down beside the Enable Encryption check box.
Reset Key String	Click this field to reset the Encryption Key Strings.

To Configure the Receiver's General Tab

1. Enter a unique Receiver name in the **Name** field.
2. Enter a textual description (optional) in the **Description** field.
3. Ensure that the **Enabled** check box is selected.
4. In the **TimeZone** section, complete the following steps:
   a. Click on ... in the **TimeZone** field to select the Time zone.

b. Select or deselect the **Sync time** check box.

5. In the Communication section, complete the following steps:
   - Enter the IP address of the Receiver and the Alarm Port number (Bosch only).
6. Select the following under the Encryption Option section:
   a. Select the **Enable Encryption** check-box to enable the encryption. The encryption is enabled at network adapter, refer to section To enable the Encryption in Network Module (D6682/D6686)To enable the Encryption in Network Module (D6682/D6686).
   b. Select the **Encryption Type AES 128/AES 192/AES 256** from the drop-down list depending on the network adapter used . The following table describes the Encryption Type options with the respective network adapters.

Table 7: Network Adapters and Encryption Types

Network Adapter Type	Encryption Type
D6682	128 bits
D6686	128 bits, 192 bits, 256 bits

   c. Enter the Encryption Keys in the key text boxes depending on the Encryption Type selected. The following tables describe the number of bytes to be keyed in based on the Encryption Type, and the allowed number of characters for Encryption Type.

Table 8: Encryption Types and Number of Bytes

Encryption Type	Number of Bytes (Text boxes enabled for the user to provide the keys)
128 bits	16
192 bits	24
256 bits	32

Table 9: Encryption Types and Allowed Characters

Encryption Type	Allowed Characters
128 bits	32
192 bits	48
256 bits	64
Note: The following list shows the allowed key strings: • 0 - 9 • A - F	

7. Click the **Reset Key String** field to reset the Encryption Keys.

To enable the Encryption in Network Module (D6682/D6686)

Complete the following steps to configure D6682/D6686 Bosch Network Adapters to encrypt UDP/IP communication:

1. Enable the Telnet client in Windows
   a. Open **Control Panel**.
   b. Click **Programs and Features**.
   c. Click **Turn Windows Features On or Off**.
   d. Select the **Telnet Client** check box.
   e. Click **OK**.

NOTE This process can vary for different versions of Windows.

2. Open a command prompt and enter the following command:
   `telnet <D6682/D6686 IP address> 9999`
3. Press Enter twice to enter setup.
4. Press 6 for Security at the main menu.
5. Press Enter at Disable SNMP (N) N.
6. Press Enter at SNMP Community Name ( ).
7. Press Enter at Disable Telnet Setup (N) N.
8. Press Enter at Disable Port 77Feh (N) N.
9. Press Enter at Disable Web Server (N) N.
10. Press Enter at Disable ECHO ports (Y) Y.
11. Press [Y] then Enter at Enable Encryption (N).
12. Enter bits value 128/192/256 at key length in bits <bits value>, then press Enter.
13. Press [Y] then Enter at Change keys (N).
14. Enter the encryption key as 16/24/32 pairs of hexadecimal digits separated by a dash at Enter key. Example, the default: 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16.
15. Press Enter at Enable Enhanced Password (N).
16. Press Enter at Enable alternate MAC (N).
17. Press Enter at Disable port 77F0h (N).
18. Press 9 to Save and exit.

Message Delivery Tab

The Message Delivery tab, shown in Figure 12 on Page 36, allows selection of message delivery and message filtering options.

Figure 12: Receiver Editor - Message Delivery Tab

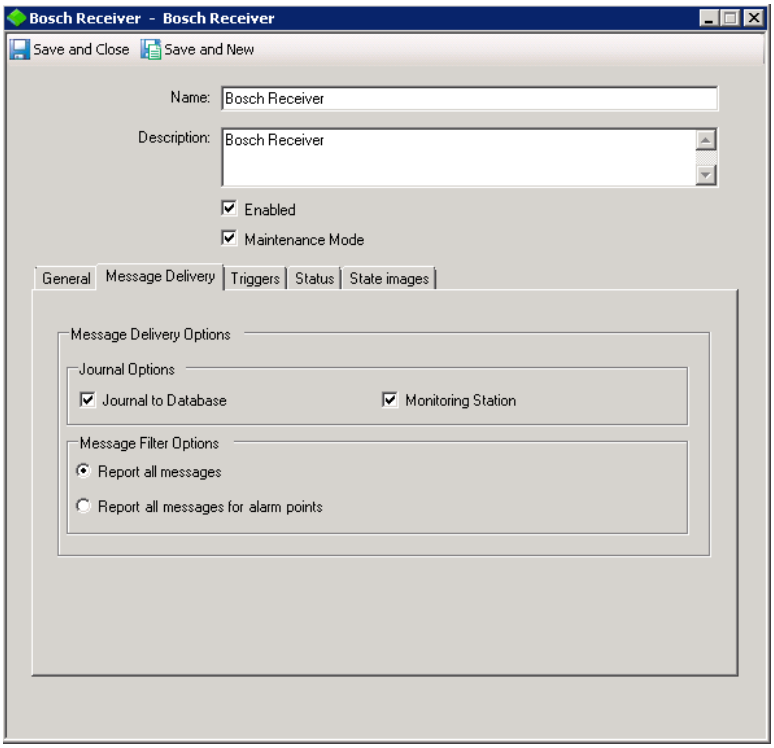


Table 10 on Page 36 describes actions and the selections that must be made in the Message Delivery tab for those actions. If the selections are not correct, then the action will not take place.

Table 10: Receiver Editor - Message Delivery Tab Action Descriptions

Action	Selection(s) in Dialog Box
Journal all activities.	• Journal to Database • Monitoring Station • Report all messages
Alarm Point Messages are only sent to the database.	• Journal to Database • Report all messages for alarm points.
Alarm Point Messages are only sent to the Monitoring Station.	• Monitoring Station • Report all messages for alarm points.
All configured and non-configured alarms are journaled to the database and the Monitoring Station.	Report all messages.
No journaling, other than online/offline messages and receiver specific messages.	None.

Triggers Tab

The Triggers tab allows you to select triggers and events, which are configured procedures used for activating security actions. A Trigger automatically executes a specified Action when a particular predefined condition occurs. The Trigger is usually used to activate an Event which activates an action.

For information about configuring Events, see the *C•CURE 9000 Software Configuration Guide*.

See Table 11 on Page 37 for definitions of the Triggers tab fields and buttons.

Figure 13: Receiver Editor - Triggers Tab

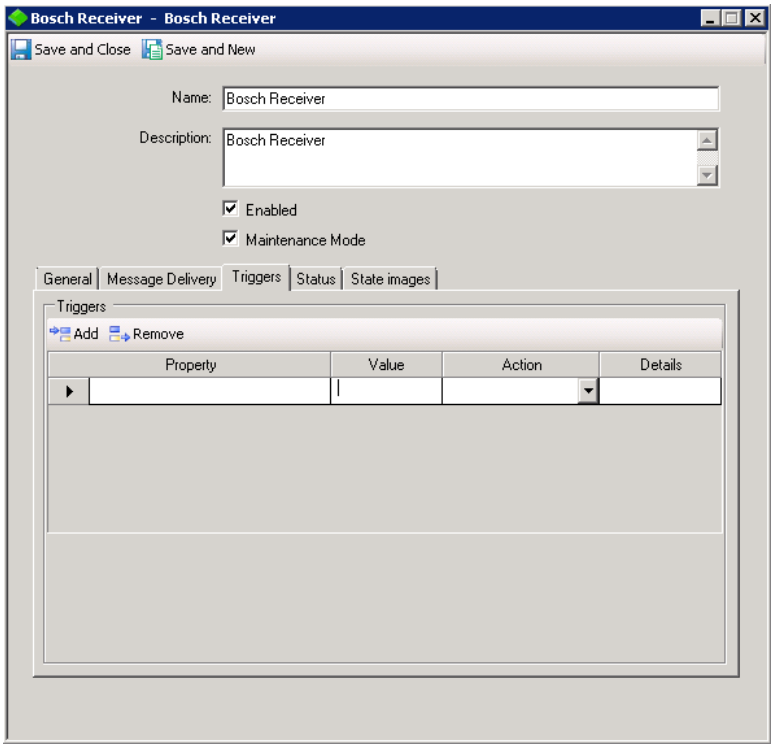


Table 11: Bosch Receiver - Triggers Tab Definitions

Fields / Buttons	Descriptions
Property	Click inside the Property field. Click browse ... select the property **Communication Status** for triggers .
Value	Select a value from the available options in the drop-down list: • Online: Bosch Receiver is online in this state. • Offline: Bosch Receiver is offline in this state. NOTE: The **Value** field is enabled only if the **Property** field is selected.
Action	Select one of the actions from the drop-down list: • Activate Event: The type of event to be activated.
Details	Displays details of the selected action. The details vary according to the selected action. NOTE: The **Details** field is automatically updated with the **Event** option selected by you.

To Configure Triggers

1. Click **Add**.
2. Click ... within the **Property** column to open the selection dialog box showing the Properties available.
3. Click a Property in the list to select it and add it to the **Property** column.

4. Click within the **Value** column to display a drop-down list of Values associated with the Property that you selected. Click a Value (**Online** or **Offline**) that you want to include as a parameter for the trigger to add it to the column.
5. Click within the **Action** column and select **Activate Event** as the parameter for the trigger to add it to the column.

   Event appears in the lower pane on the Triggers tab.
6. Click in the Event field to open the Event Name Selection dialog box, or click to create a new Event.
7. Click an Event in the list to select it.

To Remove a Trigger

1. Click in the row selector to select a Trigger row.
2. Click **Remove** to delete the selected row.
3. Click **Save and Close**.

To Activate an Alarm Point

1. Perform one of the following:
   a. Right-click **Alarm Point>Activate**.
   b. In the Dynamic View, right-click **Alarm Point>Activate**.

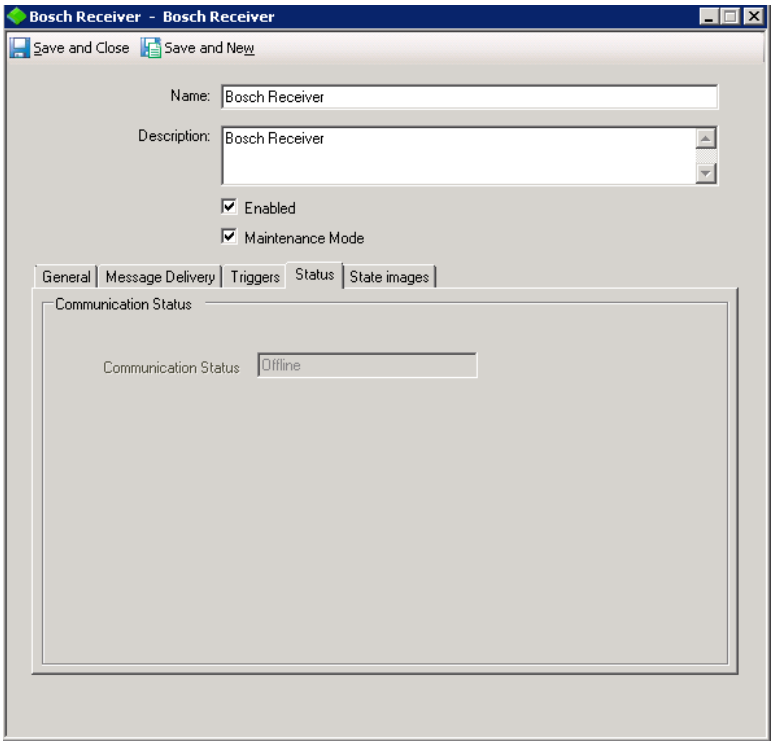
In the Dynamic View, right-click and select **Device** to verify that the Alarm Point belongs to the specified Receiver.

Manually activating and deactivating Alarm Points does not display messages in the Monitoring Station.

Status Tab

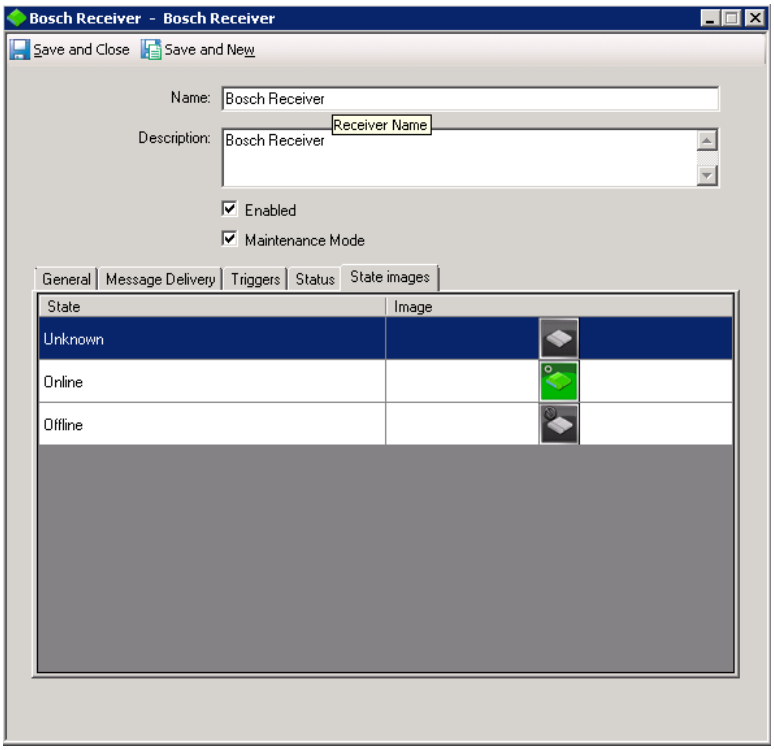
The Status tab provides a read-only listing of critical information about the operational status of the Bosch Receiver.

Figure 14: Receiver Editor - Status Tab



State Images Tab

The State Images tab provides a means to change the default images that are displayed on the C•CURE 9000 Monitoring Station to indicate Bosch Receiver states.



See Table 12 on Page 40 for definitions of the States on the **State Images** tab.

Table 12: Receiver Editor - State Images Tab Definitions

Images	Description
Unknown	Displays the Bosch Receiver unknown state when receiver is either not configured or not connected.
Online	Displays the state when Bosch Receiver is online.
Offline	Displays the state when Bosch Receiver is offline.

To Customize a State Image

1. In the State Images tab, double-click the existing image.

   A Windows Open dialog box appears, allowing you to browse for a folder in which you have placed replacement images.
2. When you locate the replacement image, select it and click **Open** to replace the default image with this image.
3. Click **Save and Close** to save the configuration.

To Restore a State Image

1. From the State Images tab, select an existing image.
2. Right-click the image and select **Restore Default**.
3. Click **Save and Close** to save the configuration.

Maintenance Mode Overview

Maintenance Mode is used to limit information, about an object, displayed on the Monitoring Station. Maintenance Mode only affects what is reported at the Monitoring Station.

A few examples for using the Maintenance Mode are:

- To prevent the display of information about:
  - Parts of the system being installed by an integrator
  - Hardware being serviced, requiring maintenance, or being tested.
- To only monitor information about hardware being serviced, requiring maintenance, or being tested.
- To view information about all objects, including those tagged Maintenance Mode.

If you place an object in the Maintenance Mode, it does not prevent actions from occurring. For example, if an event assigned to an intrusion zone in Maintenance Mode activates an output that turns on the building-wide evacuation alarm, the activation of the output will still occur.

Maintenance Mode is only reported in Journal messages when an object is tagged to Maintenance Mode.

Operator Privilege and Application Layout Filtering assignments determine whether or not an object in Maintenance Mode is viewable, as being in Maintenance Mode, on the Monitoring Station. Operators with the appropriate privileges and Application Layout Filtering can view objects in Maintenance Mode.

5

Receiver Alarm Configuration

This chapter provides information about configuring the Bosch Receiver Alarms.

In this chapter:

Alarm Categories Editor 42
Alarm Configurations Editor 44

Alarm Categories Editor

The Alarm Categories Editor, shown in Figure 15 on Page 42, allows you to add categories like partitions, zones, and panels. These categories are used to configure the alarms in the Alarm Configurations Editor on Page 44.

NOTE Alarm Categories should be configured before configuring the alarms.

See the following for more information:

- Alarm Categories Dialog Box Definitions on Page 42
- Accessing the Alarm Categories Editor Dialog Box on Page 43
- Adding Alarm Categories on Page 43
- Removing Alarm Categories on Page 43

Figure 15: Alarm Categories Editor Dialog Box

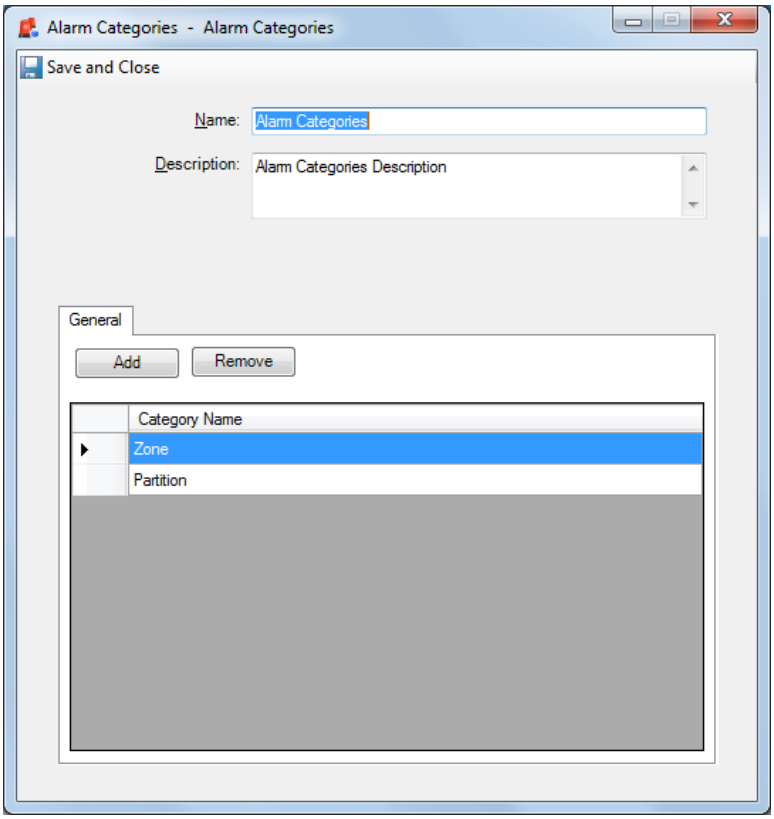


Table 13: Alarm Categories Dialog Box Definitions

Fields / Buttons	Descriptions
Name	Enter a unique name, up to 100 characters, to identify the Alarm Categories Configuration. NOTE: Alarm Categories is the default name.
Description	Enter a description, up to 500 characters (optional).
Add	Add a new category.

Fields / Buttons	Descriptions
Remove	Removes a category.
Category Name	The name of the category. Zone and Partition are the default category names.

Accessing the Alarm Categories Editor Dialog Box

To Access the Alarm Categories Editor Dialog Box

1. Click on the **Company Name** folder.
2. Click on **Alarm Categories**.
3. Right-click on the **Alarm Categories** sub-folder and select **Edit**.

   The Alarm Categories dialog box opens with Zone and Partition listed as the default categories.

Adding Alarm Categories

To Add New Alarm Categories

1. Click **Add**. to add a row for the new Alarm Category.
2. Click on the row under the **Category Name** column.
3. Enter a name for the new Alarm Category.
4. Repeat step 1 through Step 3 until done with adding new categories.
5. Click **Save and Close**.

Removing Alarm Categories

To Remove Alarm Categories

1. Click in the row that contains the Alarm Category that you want to remove.
2. Click **Remove**.
3. Click **Save and Close**.

NOTE Once you remove an Alarm Category it will also be removed in the Alarm Configuration dialog box as a category selection.

Alarm Configurations Editor

The Alarm Configurations Editor, shown in Figure 16 on Page 44, allows you to configure existing alarms and add new alarms.

See the following for more information:

- Accessing the Alarm Configurations Dialog Box on Page 45
- Modifying Existing Alarms on Page 45
- Configuring New Alarms on Page 45
- Deleting Alarm Configurations on Page 46

Figure 16: Alarm Configurations Editor

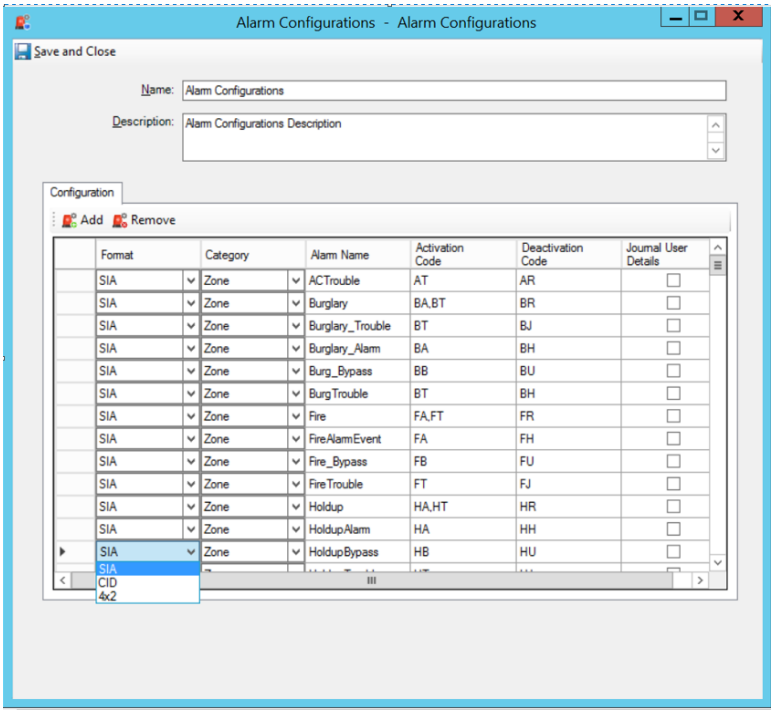


Table 14: Alarm Configurations Editor Dialog Box Definitions

Fields / Buttons	Descriptions
Name	Enter a unique name, up to 100 characters, to identify the Alarm Configuration. NOTE: Alarm Configuration is the default name.
Description	Enter a description, up to 500 characters (optional).
Format	The Alarm Protocol to use: • SIA - Security Industry Association • CID - Contact ID • 4x2 - 4 digit panel account number followed by a two-digit alarm code. NOTE: Bosch only. For Modem IIIa2 and Modem IV protocols, use SIA only. NOTE: 4x2 protocol will not have any predefined Activation Codes and Deactivation Codes unlike CID/SIA.

Fields / Buttons	Descriptions
Category	The Alarm Category. NOTE: These categories are derived from the configurations in the Alarm Categories Editor on Page 42
Alarm Name	The name of the alarm.
Activation Code/ Deactivation Code	The code used for activation and deactivation of the alarm.
Journal User Details	If selected, user information is available in the message displayed when the alarm is activated or deactivated.
Add	Adds a row for a new Alarm Configuration.
Remove	Deletes an Alarm Configuration.

Accessing the Alarm Configurations Dialog Box

To Access the Alarm Configurations Dialog Box

1. Click on the **Company Name** folder.
2. Click on **Alarm Configurations**.
3. Right-click on the **Alarm Configurations** sub-folder and select **Edit**.

   The Alarm Configurations dialog box opens.

Modifying Existing Alarms

To Modify Existing Alarms

1. Click on the row with the alarm that you want to edit.
2. Make the configuration changes.
3. Click **Save and Close**.

Configuring New Alarms

To Configure a New Alarm

1. Click **Add** to add a new row for the new alarm configuration.

   The new row is added to the end of the alarm list.
2. Select the protocol from the **Format** drop-down list.
3. Select the a category from the **Category** drop-down list.

NOTE Categories in the list are derived from the Alarm Category configuration. For more information, see Alarm Categories Editor on Page 42

4. Enter an name for the alarm in the **Alarm Name** field.

5. Enter a code to activate the alarm in the **Activation Code** field.
6. Enter a code to deactivate the alarm in the **Deactivation Code** field.
7. Click in the **Journal User Details** checkbox, optional, to display user information in the message displayed when the alarm is activated or deactivated.
8. Click **Save and Close.**

Deleting Alarm Configurations

To Delete an Alarm Configuration

1. Click in the row that contains the Alarm Configuration that you want to remove.
2. Click **Remove**.
3. Click **Save and Close**.

6

Receiver Alarm Points Configuration

This chapter provides information about configuring the Bosch Receiver Alarm Points.

In this chapter

Configuring the Bosch Receiver Alarm Points 48
Configuring SIA Event Codes for Alarm Point Deactivation 54

Configuring the Bosch Receiver Alarm Points

The Alarm Point Editor, shown in Figure 17 on Page 49, is used to configure the Bosch Receiver Alarm Points.

See Table 15 on Page 49 for descriptions of the Alarm Point **General** tab fields and buttons

See the following for more information:

- Accessing the Alarm Point Editor on Page 48
- General Tab on Page 49
- Triggers Tab on Page 50
- Status Tab on Page 52
- State Images Tab on Page 52

Accessing the Alarm Point Editor

To Access the Alarm Point Editor

1. In the **Navigation** pane of the Administration Workstation, click **Hardware** to open the **Hardware** pane.
2. Right-click on the Bosch Receiver. Select **Alarm Point >New** from the context menu to open the Alarm Point Editor. By default, the Alarm Point Editor, shown in Figure 17 on Page 49, opens with the General tab exposed.

General Tab

Figure 17: Alarm Point Editor - General Tab

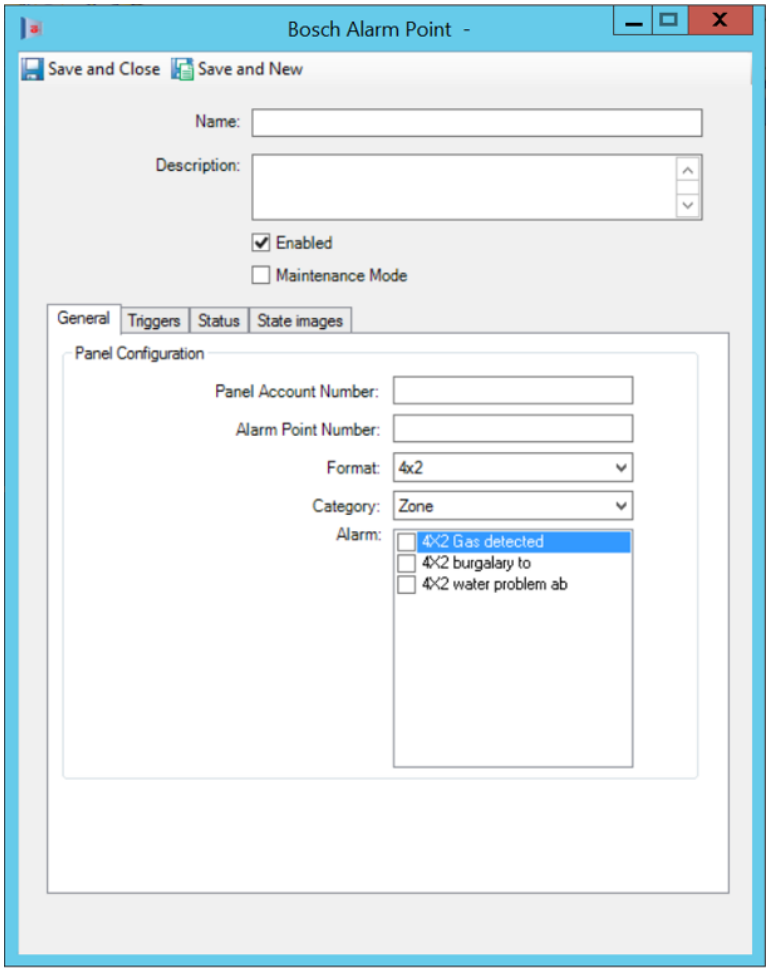


Table 15: Alarm Point Editor - General Tab Definitions

Fields/Buttons	Descriptions
Name	Enter a unique name, up to 100 characters long, to identify the Alarm Point
Description	Enter a description, up to 500 characters, to identify the Alarm Point.
Enabled	If enabled, C•CURE 9000 attempts to communicate with Alarm Point.
Maintenance Mode	Select the Maintenance Mode check box to limit information, about the object, displayed on the Monitoring Station. Maintenance Mode only affects what is reported at the Monitoring Station. For more information "Maintenance Mode Overview" on page 40
Panel Configuration	
Panel Account Number	Enter the Panel Account Number. This number should be unique per receiver.
Alarm Point Number	Enter the point number, or partition number, of the Alarm (optional).

Fields/Buttons	Descriptions
Format	Select one of the following formats from the drop-down list: SIA, CID, or 4x2. **Note:** The 4x2 protocol supports a maximum of four digits/alphanumeric account number.
Category	Select the Alarm category from the drop-down list.
Alarm	Allows selection of multiple alarms for a single alarm point.

To Configure the Alarm Point General Tab

1. Enter a unique Alarm Point name in the **Name** field.
2. Enter a textual description (optional) in the **Description** field.
3. Enter the **Alarm Point Number** (Optional).
4. Select the **Format** from the drop-down list.
5. Select a **Category** from the drop-down list.
6. Select the Alarm(s) from the **Alarm** list.
7. Click on the **Triggers** tab.

Triggers Tab

The Triggers tab, shown in Figure 18 on Page 51, allows you to select triggers and events, which are configured procedures used for activating security actions. A Trigger automatically executes a specified Action when a particular predefined condition occurs. The Trigger is usually used to activate an Event which activates an action.

For information about configuring Events, see the *C•CURE 9000 Software Configuration Guide*.

See Table 16 on Page 51 for definitions of the fields and buttons.

Figure 18: Alarm Point Editor - Triggers Tab

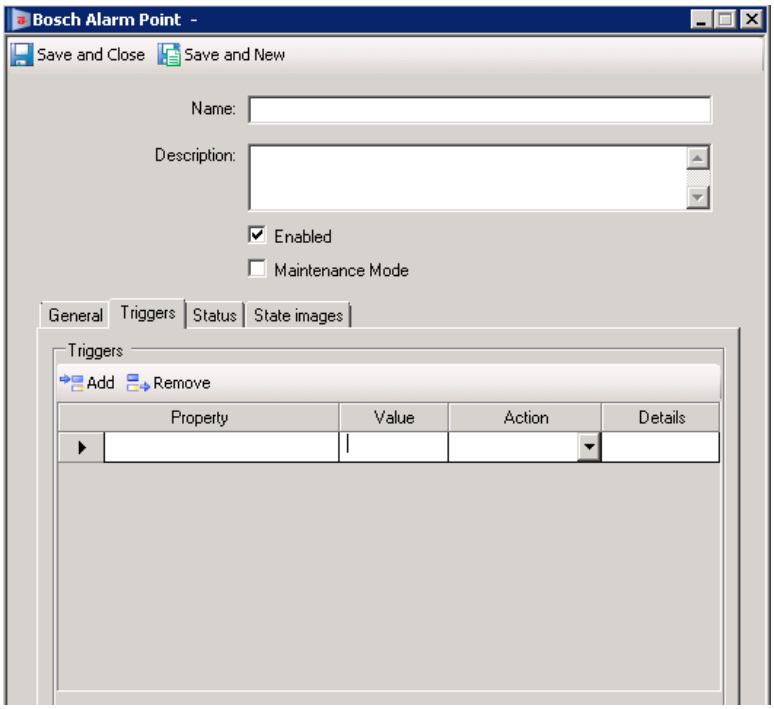


Table 16: Alarm Point Editor - Triggers Tab Definitions

Fields / Buttons	Descriptions
Property	Click inside the Property field. Click browse [...] select the property **Communication Status** for triggers .
Value	Select a value from the available options in the drop-down list: • Online: Bosch Receiver is online in this state. • Offline: Bosch Receiver is offline in this state. NOTE: The **Value** field is enabled only if the **Property** field is selected.
Action	Select one of the actions from the drop-down list: • Activate Event: The type of event to be activated.
Details	Displays details of the selected action. The details vary according to the selected action. NOTE: The **Details** field is automatically updated with the **Event** option selected by you.

To Configure Triggers for an Alarm Point

1. Click **Add**.
2. Click [...] within the **Property** column to open the selection dialog box showing the Properties available.
3. Click a Property in the list to select it and add it to the **Property** column.
4. Click within the **Value** column to display a drop-down list of Values associated with the Property that you selected. Click a Value Online or Offline) that you want to include as a parameter for the trigger to add it to the column.
5. Click within the **Action** column and select **Activate Event** as the parameter for the trigger to add it to the column.

   Event appears in the lower pane on the Triggers tab.

6. Click ... in the Event field to open the Event Name Selection dialog box, or click ⌄ to create a new Event.
7. Click an Event in the list to select it.

To Remove a Trigger

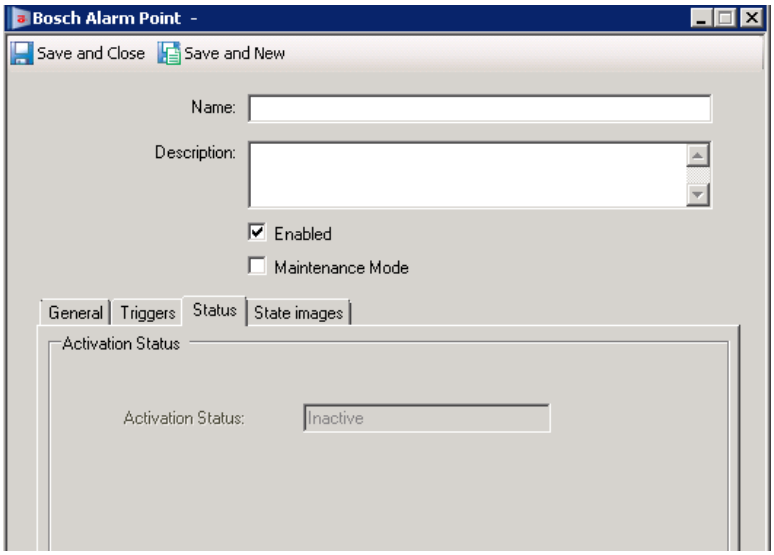
1. Click in the row selector ▶ to select a Trigger row.
2. Click **Remove** to delete the selected row.
3. Click **Save and Close**.

NOTE If C•CURE 9000 is out of sync with the Receiver, then status messages from the panel are not communicated. To overcome this, an option is provided for Alarm Point to activate and deactivate from the Hardware tree and Dynamic view. This changes the status in C•CURE 9000 and will not download it to the receiver.

Status Tab

The Status tab, shown in Figure 19 on Page 52, provides a read-only listing of critical information about the operational status of the Bosch Receiver.

Figure 19: Alarm Point Editor - Status tab



State Images Tab

The State Images tab, shown in Figure 20 on Page 53, provides a means to change the default images that are displayed on the C•CURE 9000 Monitoring Station to indicate Bosch Receiver states.

See Table 17 on Page 53 for descriptions of the State mages.

definitions of the images.

Figure 20: Alarm Point Editor - State Images Tab

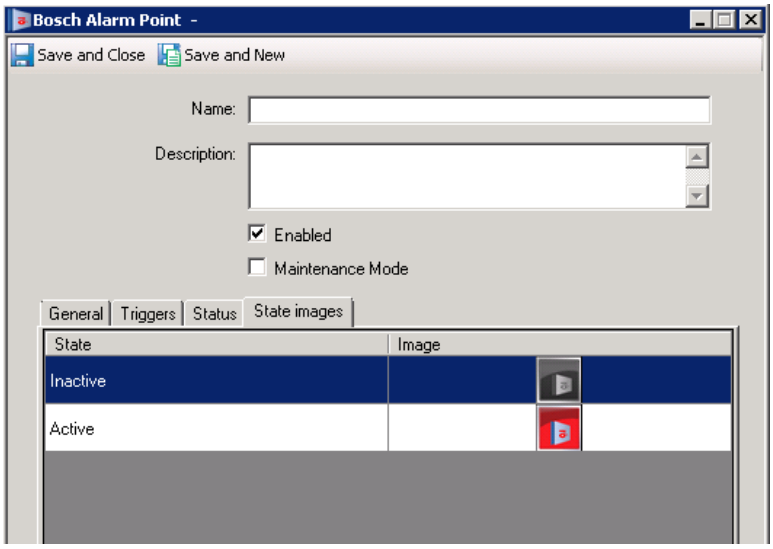


Table 17: Alarm Point Editor - State Image Tab Definitions

Image	Descriptions
Active	Displays active state when the Alarm Point is active.
Inactive	Displays inactive state when the Alarm Point is inactive.

To Customize the State Image

1. In the State Images tab, double-click the existing image.

   A Windows Open dialog box appears, allowing you to browse for a folder in which you have placed replacement images.
2. When you locate the replacement image, select it and click **Open** to replace the default image with this image.
3. Click **Save and Close** to save the configuration.

To Restore a State Image

1. From the State Images tab, select an existing image.
2. Right-click the image and select **Restore Default**.
3. Click **Save and Close** to save the configuration.

Configuring SIA Event Codes for Alarm Point Deactivation

SIA Deactivation event codes for alarm point varies for panel type and vendors. An XML configuration file is provided in the Bosch receiver driver to configure deactivation codes. This configuration file has default deactivation codes that can be customized based on the panel.

Config file name and location: CrossFire\ServerComponents\SecurityIndustryAssociationEventCodes.xml

XML entry in config file

<add key="BR" value="BA,BT" />

key = is the deactivation SIA event code for Alarm point

value = Comma separated Activation SIA event codes for Alarm point

In the above example any Alarm point activation due to event code "BA" or "BT" will be restored with event code "BR".

Any changes to configuration file requires restart of Bosch receiver driver.

7

Receiver Hardware Configuration (Sync Time)

This chapter provides information about configuring the Sync Time in the Bosch Receiver hardware.

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Configuring the Receiver Hardware

To Configure Sync Time in D6100i

1. On the D6100i keypad, press **MENU** and enter the default passcode of **6100** to enter the programming mode. Press **ENTER**.
2. Scroll down _ to 2 CPU Configuration and press **ENTER**.
3. Scroll down _ to 2.2 Global and press **ENTER**.
4. Set 2.2.4 Enable Input Commands to a value of 1 and press **ENTER**. If the value is not 1, press **ENTER>1>ENTER**.

Setting 2.2.4 value to 1 enables the receiver for time sync from Host.

To Configure Sync Time in D6600

1. On the D6100i keypad, press **M/E** and enter the default passcode of **6600** to enter the programming mode. Press **M/E**.
2. Scroll down _ to 2.2 Global and press **M/E**.
3. 2.2.4 Enable Input Commands Should be set to 1.

Setting 2.2.4 value to 1 enables the receiver for time sync from Host.

8

Event and Action

This chapter provides basic information about Event and Action and how to configure a Bosch Receiver Alarm Point Action.

Events and Actions

In the C•CURE 9000 and Bosch Receiver Integration, you can use an event to trigger an action. Events are a feature of the C•CURE 9000 Administration module that are programmable by the user. For detailed information about configuring an event, see the *C•CURE 9000 Software Configuration Guide*.

As well as actions provided by C•CURE 9000, the Bosch Receiver Integration also provides pre-defined Activate and Deactivate actions that can be used to configure event.

Actions and Target Object

Table 18 on Page 58 describes the Bosch Receiver Integration Actions

Table 18: Bosch Receiver Integration Actions

Action	Target Object	Description
Activate Bosch Alarm Point	Bosch Receiver Alarm Point	Action will be triggered to activate the alarm point.
Deactivate Bosch Alarm Point	Bosch Receiver Alarm Point	Action will be triggered to deactivate the alarm point.

Configuring Bosch Receiver Activate and Deactivate Actions for an Event

Configuring an Activate Bosch Alarm Point Action

1. Open the **Configuration** module of the **Administration Workstation**.
2. Click **Event** to create a new event.
3. Enter a name for the event in the **Name** dialogue box.
4. Enter a description for the event in the **Description** dialogue box.
5. Click the **Action** tab.
6. Click **Add**.
7. Select **Activate Bosch Alarm Point**.
8. Click open the Bosch Alarm Point list and select a Bosch Alarm Point for this action.

Configuring a Deactivate Bosch Alarm Point Action

1. Open the **Configuration** module of the **Administration Workstation**.
2. Click **Event** to create a new event.
3. Enter a name for the event in the **Name** dialogue box.
4. Enter a description for the event in the **Description** dialogue box.
5. Click the **Action** tab.
6. Click **Add**.

7. Select **Deactivate Bosch Alarm Point**.

8. Click to open the Bosch Alarm Point list and select a Bosch Alarm Point for this action.

A

Troubleshooting and Journal Log Messages

This appendix describes some problems you may encounter and the steps to resolve them. It also includes Journal Log Messages, and information about Journaling.

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Troubleshooting

This section provides troubleshooting information for issues that may occur in the Bosch Integration.

Problem:

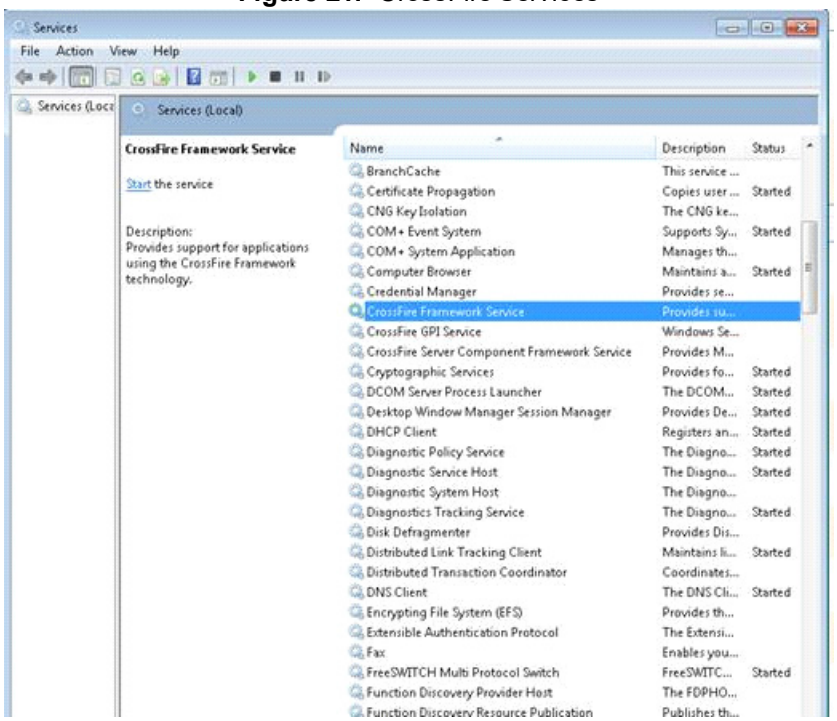
Sometimes the installation may fail if the CrossFire service does not stop on time and throws a time out error.

Solution:

Ensure that you have completed the following steps:

- Check if the CrossFire service is stopped from services panel in case of installation failure. Refer to Figure 21 on Page 61.
- Wait till the CrossFire service is stopped and then trigger the installation again. This will work fine as the service is stopped already.

Figure 21: CrossFire Services



Problem:

Alarm Points are activated but on restoral not reflecting deactivation status in C•CURE 9000.

Solution:

See **Configuring SIA Event Codes for Alarm Point Deactivation on Page 54**

Problem:

During importing Alarm Points "Object Type 'ExternalObject' is not importable" error message is displayed.

Solution:

Validate property details configured in *.csv file. Refer sample templates provided with the Installation Kit

Problem:

Alarm Points are not imported under Alarm Receiver.

Solution:

Validate the Receiver "DeviceID" and "DeviceGUID" details in *.csv import file. Provide "ObjectID" and "GUID" details of the Receiver to "DeviceID" and "DeviceGUID" respectively. To derive the "ObjectID" and "GUID" of the Receiver, export the Receiver Object from C•CURE 9000 in XML format and check "ObjectID" and "GUID" property.

Problem:

Receiver driver will not work on Unified setup when installed in the sequence mentioned below:

1. Install Victor
2. Install Receiver driver
3. Install C•CURE 9000
4. Upgrade Receiver driver.

Solution:

After installing Victor, Receiver driver and C•CURE 9000 first upgrade IntrusionFrameWork and then upgrade Receiver driver.

Problem:

Victor server option is not selected in Custom Setup Dialog box while installing in the sequence mentioned below:

1. Install Victor.
2. Install Receiver driver.
3. Install C•CURE 9000.
4. Upgrade Receiver driver.

Solution:

Click to the left of the Victor server and select "This feature, and all sub features, will be installed on local hard drives".

Problem:

Receiver and Alarm Point objects are not visible in C•CURE 9000 client which was created in the Victor client when installed in the sequence mentioned below:

1. Install Victor.
2. Install Receiver driver.
3. Create Receiver and Alarm Point Objects.
4. Install C•CURE 9000.
5. Upgrade IntrusionFrameWork.
6. Upgrade Receiver driver.

Solution:

After sixth step, as per the sequence mentioned above, repair Receiver driver.

Problem:

Receiver and Alarm Point objects are not visible in Victor client when C•CURE 9000 is uninstalled from a unified system.

Solution:

Repair Receiver driver after uninstalling the C•CURE 9000.

Journal Log Messages

The following types of Bosch messages will be logged to the C•CURE journal.

Message Type	Message description
Device Activity	Device online status messages (unknown, online, offline)
Device Activity	SIA messages
Device Activity	CID messages
Device Activity	4x2 messages
System Activity	Start up driver messages
System Activity	Stop driver messages
Device Activity	ModemIIIa2 messages (Bosch only)
Device Activity	Modem IV messages (Bosch only)

NOTE Alarms are received and saved in the Journal database even though the Alarm point is not configured, and you can search the alarm against the configured Bosch receiver as primary object.

Journaling

Journaling shall be done in the following manner if the alarm point is configured:

- **Activation Messages**

    1. Alarm Point 'Alarm Point Name’ activation occurred on Receiver 'Receiver Name’.
    2. Alarm Point 'Alarm Point Name’ activation occurred by User 'User Code’ on Receiver 'Receiver Name’.

Deactivation Messages

1. Alarm Point ‘Alarm Point Name’ deactivation occurred on Receiver ‘Receiver Name’.
2. Alarm Point 'Alarm Point Name’ deactivation occurred by User 'User Code’ on Receiver 'Receiver Name’.

Journaling shall be done in the following manner if the alarm point is not configured:

If an alarm is not configured as alarm configuration, then instead of the name, the alarm code will be journaled.

- 'Alarm Code’ is activated on panel account number #1234 at Receiver 'Receiver Name’
- 'Alarm Code’ is restored on panel account number #1234 at Receiver 'Receiver Name’

If an alarm is configured as alarm configuration, then name of the alarm code will be journaled.

- 'Alarm Name’ is activated on panel account number #1234 at Receiver 'Receiver Name’
- 'Alarm Name’ is restored on panel account number #1234 at Receiver 'Receiver Name’

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