tyco | American Dynamics

Bosch Receiver Integration for victor

User Guide

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www.americandynamics.net

Johnson Controls

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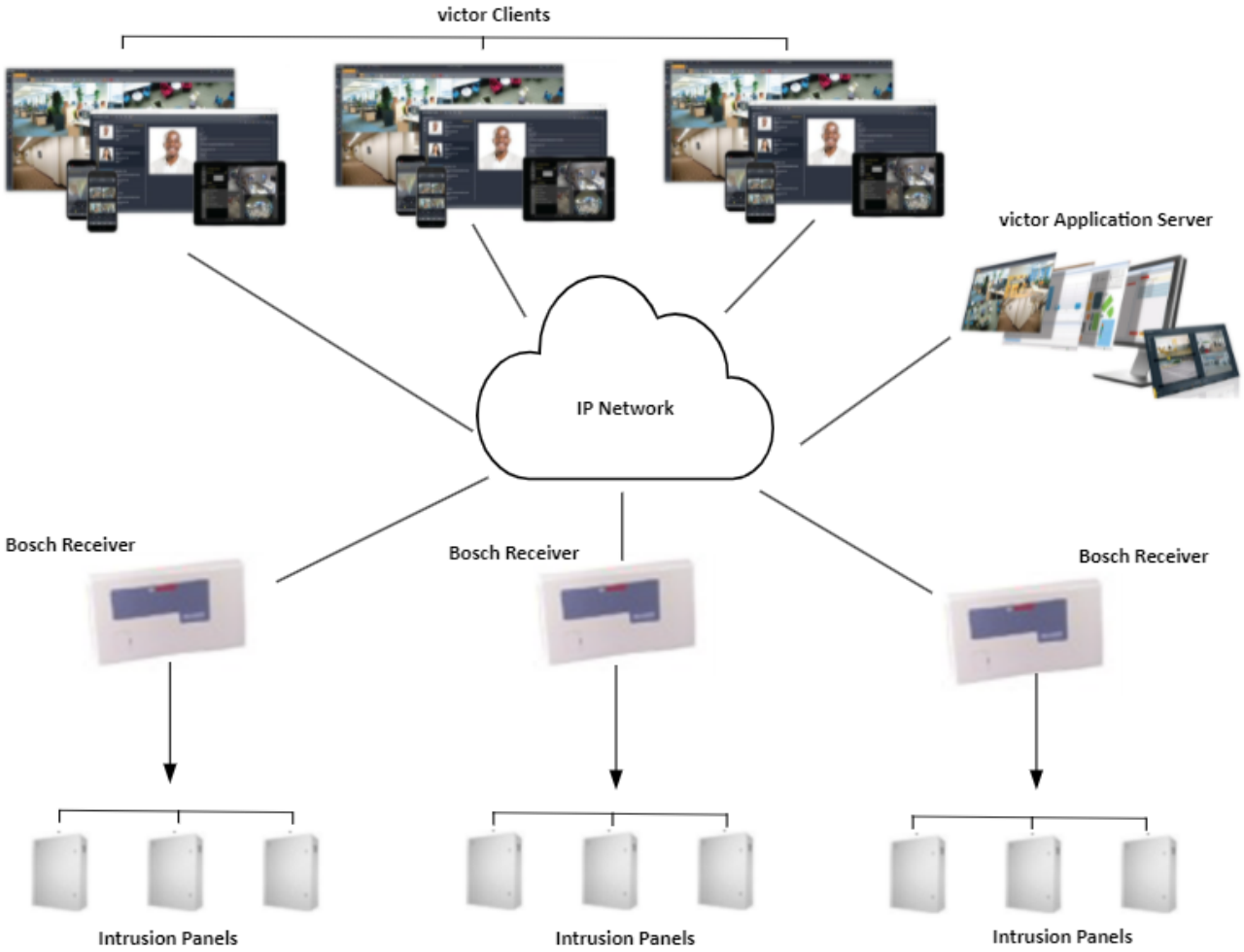
Introduction

Bosch Integration provides advanced, seamless integration between victor and Bosch Receivers allowing users of victor unified client to monitor their Bosch devices from within the victor interface.

Figure 1: Bosch system architecture



Features

The objective of the Bosch integration is to provide a standard, single interface between Bosch and American Dynamic's victor Unified Video Management product. Supported features include:

- Support for multiple Bosch Receivers.
- All intrusion activities are logged in the security journal, allowing both intrusion and security events to be reviewed together in future investigative reporting.
- Supports Security Industry Association (SIA), Contact ID (CID) communication and 4x2 protocol.

Note:
4x2 protocol is made up of a 4-digit panel account number followed by a 2-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.

- Supports Modem IIIa2 & Modem IV protocol.
- Supports alarms from Receiver.
- Create, edit, or delete Receiver object.
- Create, edit, or delete alarm point objects for zones and partitions.
- Receiver and alarm point objects under device list and sites list.
- Receiver and alarm point objects and annunciation on Maps.
- Supports importing alarm points.
- Alerts for Receiver and alarm points.
- Object association for Receiver and alarm points.
- Activate and deactivate manual actions on alarm points.
- Receiver object supported in Find in Journal and Find on Map.
- Installation available on victor remote Clients.
- Use the Alarm Point Editor to select multiple alarms for a single alarm point. Select alarm categories from the New Category drop-down.
- Supports Encryption option (enables encrypted communication between the driver and the Bosch receiver: supports 128bit, 192 bit and 256 bit encryption).
- Supports TLS 1.2 for security.

Hardware Requirements

Bosch Receiver integration has the same hardware, software, and disk space requirements as the unified Application Server and victor site manager. Therefore, if the machine can successfully run victor then it will satisfy Bosch Receiver integration requirements.

Bosch Receiver integration requires approximately 50MB of available Hard Disk space.

Software Requirements

Refer to latest release notes for current software version

Bosch Receiver Firmware

- Bosch Connectix D6100 Receiver with firmware version 61.04.00
- Bosch Connectix D6600 Communications Receiver with firmware version 01.10.00

Operating Systems

All operating systems supported by victor are supported by this driver. Refer to victor product data sheets

Installation

Prerequisites

- The Bosch Receiver installer must be run on both victor Application Server and all victor Unified Client machines.
- To install the Bosch Receiver Integration on victor Application Server, you must install the .NET Framework 4.8 on victor server.

Procedure 1 Adding Bosch Receiver Integration to victor

Note:

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

1. Close the victor Unified Client.
2. Open the Server Configuration Application and stop the following server services:
   - CrossFire Framework Service
   - CrossFire Server Component Framework Service
3. Close the Server Configuration Application.

1 Close any currently running programs.

2 Navigate to http://www.americandynamics.net.

3 Download the appropriate version of the Bosch Integration Software Driver for your version of victor.

4 Launch the Bosch Integration Software Driver.

5 Read the End User Licence Agreement (EULA), click the **I accept the terms in the license agreement** check box, and then click **Next**.

6 For server installations running the Crossfire service, the **Tyco Crossfire Service Alert** dialog box appears. Click **OK** to continue with installation.

7 Click **Next** in the Bosch Integration Setup Wizard to install the integration.

8 Click **Install**. The program may take several minutes to install.

Note:
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 server (alias) name.

9 Click **Finish** to complete the installation.

Procedure 2 Modifying the Virtual Server (alias) name during or after installation

1 Navigate to the folder ../Tyco/CrossFire/ServerComponents

2 Open the Bosch Reciever Driver Service.exe file.

3 Scroll down to the client section and change the local host to the required Virtual server (alias) name. Do this for all end points except TraceViewerURI.

Hardware Requirements

- Bosch Connectix D6100 Receiver with firmware version 61.04.00
- Bosch Connectix D6600 Communications Receiver with firmware version 01.10.00
- Bosch D6882 Ethernet Network Adapter

Configuring the Bosch Receiver to Communicate with victor Unified Client

The Bosch D6882 Ethernet Network Adapter must be configured prior to the Bosch Connectix 6600 Receiver and Bosch Connectix 6100 Receiver in order for communication with the victor Unified Client.

Bosch D6882 Ethernet Network Adapter

Enter the following settings to configure the Bosch D6882 Ethernet Adapter:

Table 1: Bosch Ethernet Adapter 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 Connectix D6600 Receiver Configuration

Enter the following settings to configure the Bosch Connectix D6600:

Table 2: Bosch Connectix D6600 settings

Parameter	Section	Settings	Comments
Output Format	2.4.15	2	Set this parameter as 2 for SIA Computer Interface Standard format
RS232 Direct Access Permission	4.5.9	0	Set this parameter as 0 to Disable D6200 connection.
COM4NetworkAdapter	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 Enable	6.1.6	0	Set this parameter as 0 to disable COM4 network encryption.
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 victor Unified Client Default: 10000
Polling Inteval	6.3.3	30	Designate the polling interval in seconds to the automation software.
Retry Number	6.3.4	4	The number of retransmission attempts in case of communication trouble.
ACK Wait	6.3.5	4	Enter the name (in seconds) the receiver waits for the ACK message from the automation software.
Network Automation Output Format	6.3.6	SIA = 2 CID = 2 4x2 = 1	Set this parameter as 0 to disable network automation output, as 1 to D6500 Mode automation output and as 2 to Bosch SIA Mode automation output.
Device	6.3.7	1	Set this parameter as 1 to use network automation.

Bosch Connectix D6100 Receiver Configuration

Enter the following settings to configure the Bosch Connectix D6100:

Table 3: Bosch Connectix D6100 settings

Parameter	Section	Settings	Comments
Output Format	2.4.15	2	Set this parameter as 2 for SIA Computer Interface Standard format

Parameter	Section	Settings	Comments
RS232 Direct Access Permission	4.5.9	0	Set this parameter as 0 to Disable D6200 connection .
COM4NetworkAdapter	6.1.5	2	• This parameter is not present in the Bosch D6100 Receiver. • This parameter can be configured from the D6200 programming software.
COM4 Network Encryption Enable	6.1.6	0	• This parameter is not present in the Bosch D6100 Receiver. • This parameter can be configured from the D6200 programming software. • Set this parameter as 0 to disable COM4 network encryption
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 victor Unified Client Default: 10000
Polling Inteval	6.3.3	30	Designate the polling interval in seconds to the automation software.
Retry Number	6.3.4	4	The number of retransmission attempts in case of communication trouble.
ACK Wait	6.3.5	4	Enter the name (in seconds) the receiver waits for the ACK message from the automation software.
Network Automation Output Format	6.3.6	SIA = 2 CID = 2 4x2 = 1	Set this parameter as 0 to disable network automation output, as 1 to D6500 Mode automation output and as 2 to Bosch SIA Mode automation output.
Device	6.3.7	1	Set this parameter as 1 to use network automation.

Configuring Sync Time in the Bosch Connectix Receiver

Procedure 3 Configuring Sync Time in Bosch Connectix Receiver D6100

1. On the D6100 keypad, press **Menu** and enter the default passcode **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. Scroll down to **2.2.4Enable Input Commands** and press **Enter**.
5. Set **Enable Input Commands** to a value of 1. Press **Enter > 1 > Enter** to set this value. This value enables time sync for the receiver with the Host.

Procedure 4 Configuring Sync Time in Bosch Connectix Receiver D6600

1. On the D6100 keypad, press **M/E** and enter the default passcode **6600** to enter the programming mode. Press **M/E**.
2. Scroll down to **2.2 Global** and press **M/E**.
3. Scroll down to **2.2.4 Enable Input Commands** and press **Enter**.
4. Set **Enable Input Commands** to a value of 1. Press **M/E > 1 > M/E** to set this value. This value enables time sync for the receiver with the Host.

Procedure 5 Configuring Sync Time in victor

The Sync Time is in milliseconds. Follow the below mentioned steps to trigger Sync Time feature:

1. Deselect the **Sync Time** check box and click **Save and Close** to save the configuration and close the receiver.
2. Update the SyncTime entry in **BoschReceiverConfiguration** config file and restart the driver.
3. After the receiver is **Online**, update the time zone to the desired time zone and select the **Sync Time** check box.
4. Click **Save and Close** to save the configuration and close the receiver.

Time will be updated in the receiver.

Introduction

Detailed Hardware Information

Detailed hardware information is available for all configured Bosch Receivers. To access this information, select Bosch Receivers from the Setup tab, then select Show All. Right-click the receiver you wish to view information for and select Edit. This information is also available by right-clicking on a receiver in the Device List and selecting Edit.

Roles

Bosch Receivers privileges are associated with victor roles, therefore all context menu verbs associated with Bosch Receivers are added to existing victor roles which can be edited accordingly. For more information on Roles, refer to the victor unified client Configuration and User Guide.

Associations

Bosch Receivers support victor's Object Association. Object Association refers to linking unrelated victor objects with the intent of enabling incident building capability. For more information on Object Associations, refer to the victor unified client Configuration and User Guide.

Reports

Bosch objects are included in the report selection tool and support the victor Find in Journal feature. For more information on Reports and the Find in Journal feature, refer to the victor unified client Configuration and User Guide.

Events

Bosch Receivers support victor Events, allowing you to detect, monitor and record specific activities on the system. For further information on Events, refer to the victor unified client Configuration and User Guide.

Maps

Bosch objects support victor Maps and the Find on Map feature. For more information on Maps and the Find on Map feature, refer to the victor unified client Configuration and User Guide.

Administration Functions

The Bosch Receiver editor in victor unified client allows configuration of alarm and alarm categories, modifying connection and communication details and alerts. Configured Bosch Receivers are displayed as hardware objects in the victor Device List.

Configuring Alarms and Alarm Categories

Alarms and Alarm Categories must be configured in the Bosch Receiver editor prior to the addition and modifying of Bosch Receivers.

Procedure 6 Accessing the Alarm Categories Editor

The Alarm Categories Editor is used to add and remove alarm categories.

1. Click on the **Device** list.
2. Open the **Alarm Categories Editor**.
3. Click **Alarm Categories**.
4. Right-click the **Alarm Categories** sub-folder and select **Edit**. The Alarm Categories box opens with Zone and Partition listed as the default categories.

Procedure 7 Adding Alarm Categories

1. Click **Add** to add a row for the new Alarm Category.
2. Open the **Alarm Categories Editor**.
3. Click on the row under the **Category Name** column.
4. Enter a name for the new Alarm Category (up to 100 characters).
5. Click **Save and Close**.

Procedure 8 Removing Alarm Categories

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

Procedure 9 Accessing the Alarm Configurations Editor

The Alarm Configurations Editor is used to modify existing alarms and add new alarms.

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

Procedure 10 Modifying 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**.

Procedure 11 Configuring New Alarms

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

2 Select one of the following protocols from the **Format** drop-down list:

- SIA - Security Industry Association
- CID - Contact ID
- 4x2 - Four-digit panel account number, followed by a two-digit alarm code.

Note:
• For Modem IIIa2 and Modem IV protocols, use SIA only.
• The 4x2 protocol does not have predefined Activation Codes and Deactivation Codes.

3 In the **Configuration** area, configure the following settings:

a Select the category from the **Category** drop-down list.

Note:
Categories in the list are derived from the Alarm Category configuration.

b Enter a name for the alarm in the **Alarm Name** field.

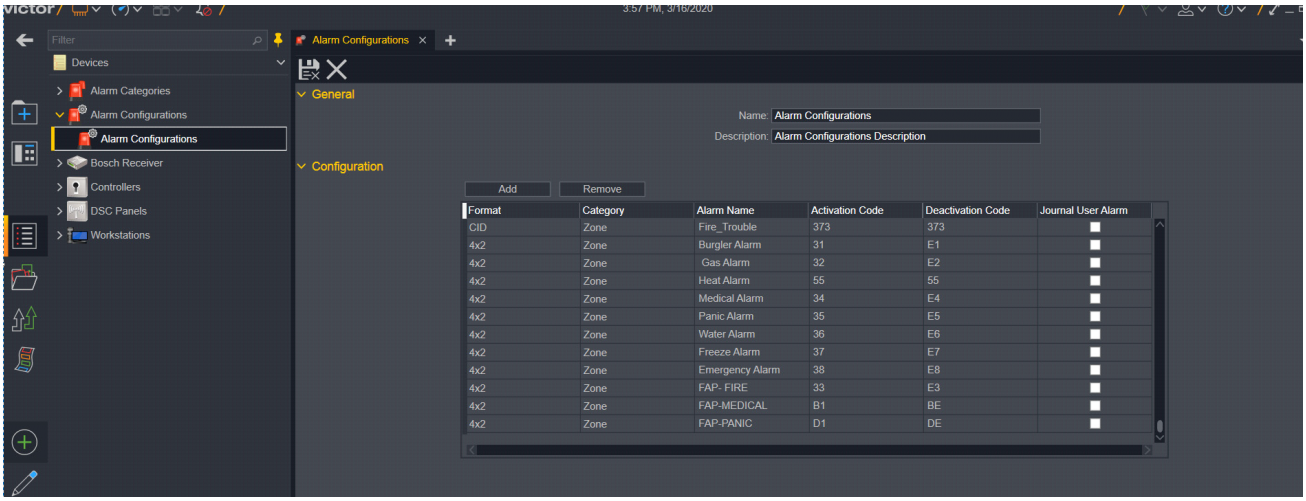
c Enter a code to activate the alarm in the **Activation Code** field.

d Enter a code to deactivate the alarm in the **Deactivation Code** field.

e **Optional:** Select the **Journal User Details** check box to display user information in the message displayed when the alarm is activated or deactivated.

4 Click **Save and Close**.

Figure 2: Alarm Configuration Editor



Procedure 12 Deleting Alarm Configurations

1 Click in the row that contains the Alarm Configuration that you want to remove.

2 Click **Remove**.

3 Click **Save and Close**.

Configuring Bosch Receivers

Procedure 13 Adding a New Bosch Receiver

1 Click the **Create New Item** icon.

2 Click the **Bosch Receiver** icon.

3 Enter a name for the receiver in the **Name** text box

4 Enter a description for the map in the **Description** text box

Note:
The **Enabled** check box is selected by default. To deactivate the receiver, clear the check box.

5 Enter the IP Address of the receiver in the **IP Address** text box

6 Double-click the **Alarm Port** text-box and edit alarm port value. The default alarm port is 1025

7 Select  next to the **Time Zone** text-box, the Object Selector dialog box displays.

8 Select a **Time Zone** from the right column

9 Select **OK** to confirm selection or **Cancel** to exit

10 To enable the driver's time synchronization commands, select the **Sync Time** check box.

Note:
The Sync time value is passed from the Configuration file (or BoschReciverConfiguration.xml). The default value is 86400000 milliseconds. When the time is synchronized, it is displayed in the receiver screen.

11 To enable encryption in the Bosch Integration driver, under the **Encryption** tab, select the **Enable Encryption** check box. All communication with the Bosch Receiver is encrypted using AES 128/192/256 bits.

Note:
The encryption is enabled at network adapter, see To enable the Encryption in Network Module (D6682/D6686).

12 Select the **Encryption Type AES 128** or **AES 192** or **AES 256** from the drop-down list under the **Encryption** tab depending on the network adapter used. For more information about Encryption Type options with network adapters, see Network Adapters and Encryption Types.

13 Enter the Encryption Keys in the key text boxes that matches with the key entered at the receiver under **Encryption** tab.

The number of bytes to be keyed is based on the Encryption Type selected. See Encryption Types and Number of Bytes for information. For information about the allowed characters for the Encryption Type, see Encryption Types and Allowed Characters.

14 Select **Reset Key String** under **Encryption** tab to reset the Encryption Key Strings.

15 Select **Journal Options**, then **Message Filter Options** under **Message Delivery** tab. For more information about dialog box selections for Message Filter Options, see Dialog Box Selections for Message Filtering.

16 Under the **Associations** tab, select  . The Object Selector dialog box displays

17 Select an association type from the left column. This will filter results in the right column

18 Select the required association from the right column. Select OK to confirm the selection or Cancel to exit.

19 Repeat steps 16-18 to add more associations.

Note:

Select an association, then select  to remove it.

20 When receiver comes online, the **Communication Status** changes to **Online** and if the receiver is offline, then the **Communication Status** also changes to **Offline**.

Note:
The **Communication Status** is **unknown** before the receiver is set to Online/Offline.

21 Click the **Save and Close** icon to save the object and close the receiver

Table 4: Dialog Box Selections for Message Filtering

Action	Selection in dialog box
Journal all activities	• Journal to Database • Activity Viewer • 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 Activity Viewer	• Activity Viewer • Report all messages for alarm points
All configured and non-configured alarms are journaled to the database and the Activity Viewer	• Report all messages
No journaling, other than online/offline messages and receiver specific messages.	None

Table 5: Network Adapters and Encryption Types

Network Adapter Type	Encryption Type
D66882	128 bits
D6686	128 bits, 192 bits, 256 bits

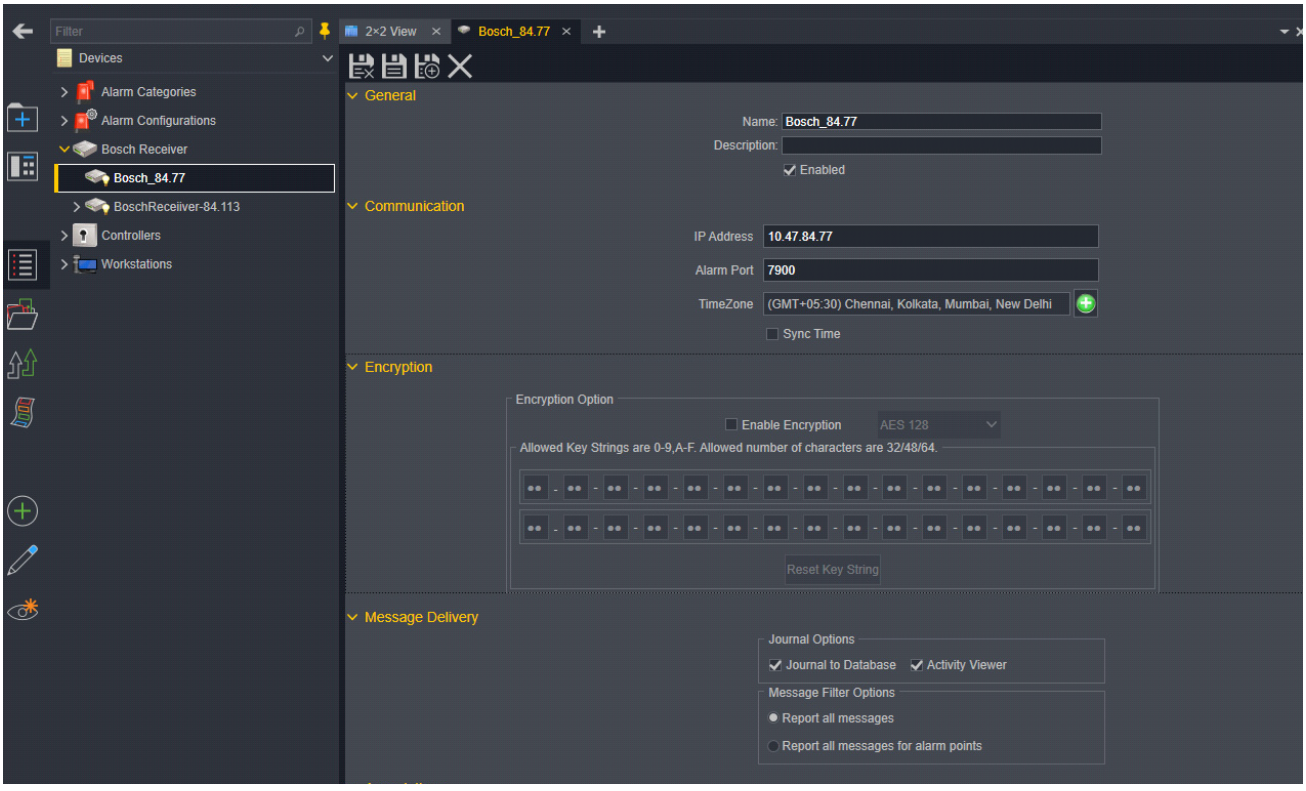
Table 6: Encryption Types and Number of Bytes

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 7: 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	

Figure 3: Bosch Receiver Editor



Procedure 14 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.

Procedure 15 View All Bosch Receivers

To view all configured Bosch Receivers, open a dynamic view.

1 Click the **Show All Items** icon.

2 Select the **Bosch Receiver** icon.

3 All configured Bosch Receivers are displayed in an Object List.

Configuring Bosch Alarm Points

Procedure 16 Add New Alarm Point

Alarm points can be configured and defined directly from the device list using the Alarm Point editor.

1 In the Device list, expand the **Bosch Receiver** folder.
2 Right-click the relevant Bosch Receiver.
3 Select **New Alarm Point**. Alarm Point editor opens
4 Enter a **Name** for the Alarm Point
5 Enter a **Description** for the Alarm Point
6 Select the **Enabled** check-box to enable or clear the check box to disable.
7 Enter the **Panel Account** number.
8 **Optional:** Enter the **Alarm Point** number.

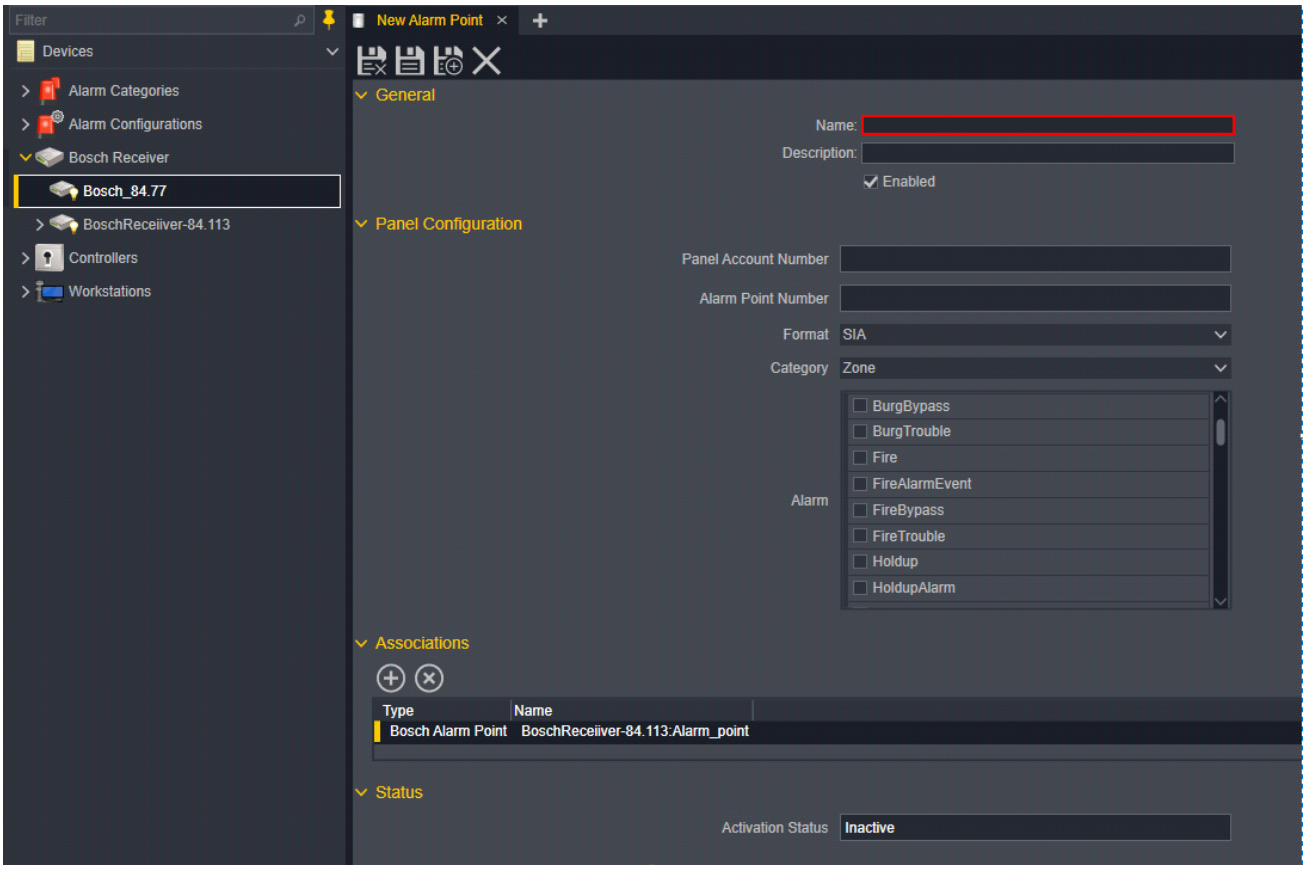
Note:
Alarm point number should be two digits/alphanumeric

9 Select one of the following options from the **Format** list:
- **CID** (Contact Identification)
- **SIA** (Security Industry Association)
- **4x2** from the **Format** list.

10 Select the category from the **Category** list.
11 Select alarm type from the **Alarm Type** list.
12 If required, select  next to Active alerts, the Object Selector dialog box displays.
13 Select Action Item from the left column. This will filter results in the right column.
14 Select the required association from the right column and then click **OK**.
15 If required, select  next to Inactive alerts, the Object Selector dialog box displays
16 Select Action Item from the left column. This will filter results in the right column
17 Select the required association from the right column and then click **OK**.
18 Select  in the Associations section. The Object Selector dialog box displays
19 Select an association type from the left column. This will filter results in the right column
20 Select the required association from the right column and then click **OK**.
21 Repeat steps 19-21 to add more associations
22 Select **Save**.

Note:
If victor Unified Client is out of sync with the Bosch 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 Device List and Dynamic View. This changes the status in victor Unified Client that will not be downloaded to the receiver.

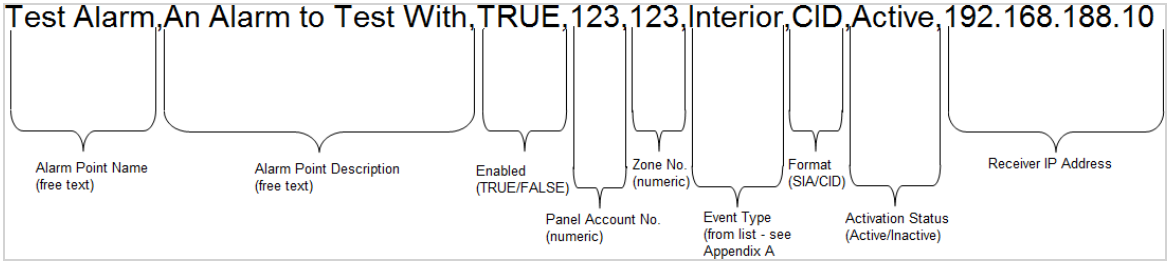
Figure 4: Alarm Point Editor



Procedure 17 Importing Alarm Points

1 Create a .txt or .csv file containing the required alarm point data, as shown in the following image.

Figure 5: Import Alarm Points Data



2 Save the .txt or .csv file.

3 Click the **Create New Item** icon.

4 Click the **Import Alarm Point** icon.

5 Navigate to the location of the saved .txt or .csv file and click **Open**.

6 Reading alarm points file dialog opens, displaying whether import has been successful or not.

7 Select **Close**.

Procedure 18 Editing Alarm Points

Alarm Point editor allows changes to Alarm Points already configured.

1 Click the **Edit Existing Item** icon.

2 Select the **Bosch Alarm Point** icon.

3 Select the Created Alarm Point to be edited.

4 Make edits as required.

5 Select **Save**.

Procedure 19 Displaying Alarm Points

1 Click the **Show All Items** icon.

2 Select the Alarm Point icon.

3 All configured alarm points are displayed in an Object List.

Configuring Bosch Actions

Procedure 20 Adding a new Bosch action

1 Click the **Create New Item** icon.

2 Click the **Bosch Action** icon.

3 Enter a name for the Bosch Action in the **Name** text box.

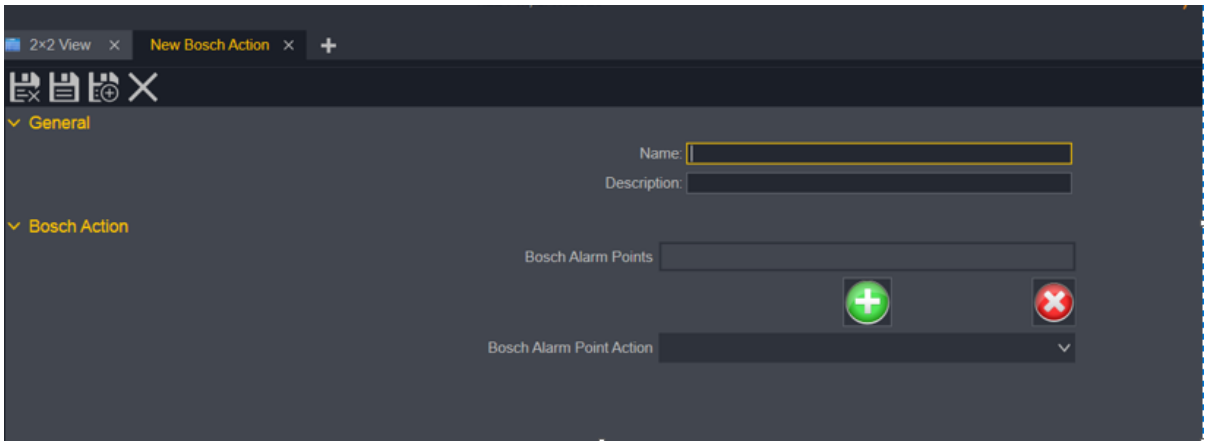
4 Enter a description for the Bosch Action in the **Description** text box.

5 Enter the Alarm Points in the **Bosch Alarm Points** text box under Bosch Action tab.

6 Select under **Bosch Action** tab to add the new Bosch Alarm Point Action.

7 Select the Bosch Alarm Point Action from the **Bosch Alarm Point Action** drop-down and click to remove the selected Bosch Alarm Point Action under **Bosch Action** tab.

Figure 6: Bosch Action Editor



Troubleshooting

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

Problem:

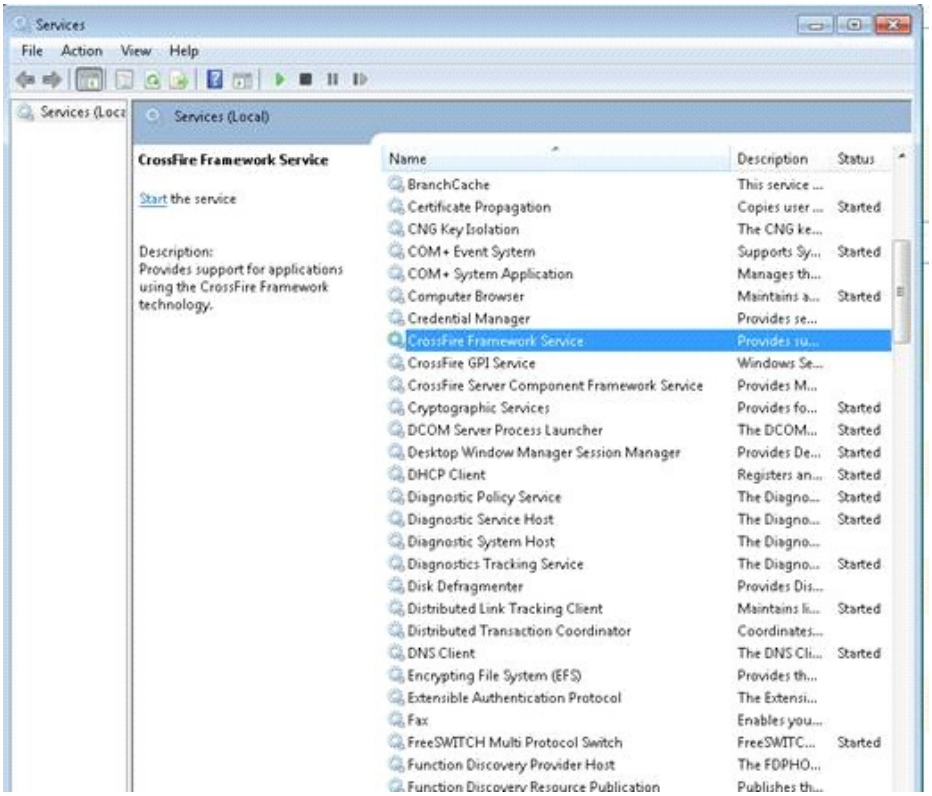
Sometimes the installation may fail if the CrossFire service does not stop on time and throws a time out error.

Solution:

Ensure that you have completed the following steps:

1. Check if the CrossFire service is stopped from services panel in case of installation failure. Refer to the image below.
2. Wait till the CrossFire service is stopped and then trigger the installation again.

Figure 7: CrossFire Services



Appendix A

Journal Log Messages

Table 8: Bosch Messages logged in the victor Activity Viewer

Message Type	Message Decription
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	Modem IIIa2 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. You can search the alarm against the configured Bosch receiver as a primary object.

Journaling

If the alarm point is configured, journalling will be contain the following messages.

Activation Messages

- Alarm Point “Alarm Point Name” activation occurred on Receiver “Receiver Name”
- Alarm Point “Alarm Point Name” activation occurred by User “User Code” on Receiver “Receiver Name”

Deactivation Messages

- Alarm Point “Alarm Point Name” deactivation occurred on Receiver “Receiver Name”.
- Alarm Point “Alarm Point Name” deactivation occurred by User “User Code” on Receiver “Receiver Name”,

If the alarm point is not configured, journaling will be carried out in the following way:

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