American Dynamics

From Tyco Security Products

Bosch Receiver Integration Guide

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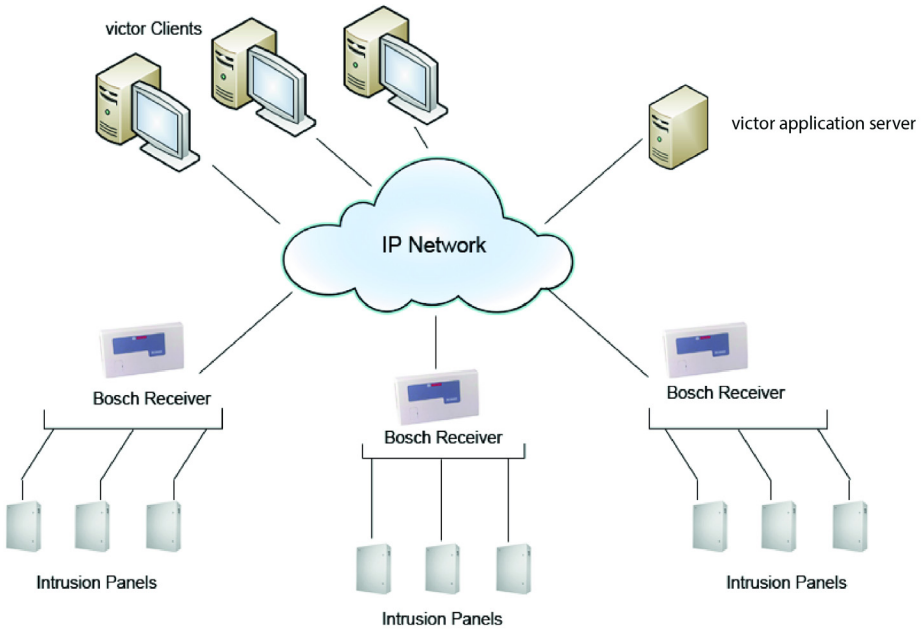
Introduction

Bosch Overview

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.



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:

- Viewing status and information of configured Bosch Receivers
- Support for multiple Bosch Receivers
- Adding new Bosch Receivers
- Importing Alarm Points
- Support for Security Industry Association (SIA) and Contact Identification (CID) protocols
- All intrusion panels supported by Bosch receivers are supported in integration
- UDP communication
- Integration with victor roles
- Integration with victor Object Association
- Integration with victor journal allowing security and intrusion events to be reviewed together
- Client side event management
- Create / Edit / Delete Alarm point object for Zone and Partition
- •Alarm Categories - The Alarm Categories Editor allows you to add categories like partitions, zones, panels etc.
- •Alarm Configuration - The Alarm Configurations Editor allows configuration of existing alarms and new alarms.
- •Message Delivery tab in Receiver Editor - The Message Delivery tab allows selection of message delivery and message filtering options.
- •Alarm Point Editor allows selection of multiple alarms for a single alarm point. A new category drop-down selection allows Alarm category selection.

Installation

Hardware and Software Requirements

Hardware

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

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 01.03.03

Operating Systems

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

Installation

The Bosch Receiver installer must be run on both **victor site manager** and all **victor unified client** machines.

Procedure 2-1 Adding Bosch Receiver Integration to victor

Step	Action
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) and click **I accept the terms in the license agreement**, 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.

After installation, a new group called **Intrusion** is available on the **Setup** tab.

- End -

Procedure 2-1-1 Modifying the Virtual Server (alias) name during or after installation

Step	Action
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**.

- End -

Configuration

Hardware Requirements

- Bosch Connectix D6100 Receiver with firmware version 61.04.00
- Bosch Connectix D6600 Communications Receiver with firmware version 01.03.03
- 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:

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:

Parameter	Section	Settings	Comments
Output Format	2.5.15	2	
RS232 Direct Access Permission	4.5.9	0	

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	
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	
Retry Number	6.3.4	4	
ACK Wait	6.3.5	4	
Network Automation Output Format	6.3.6	2	
Device	6.3.7	1	

Bosch Connectix D6100 Receiver Configuration

Enter the following settings to configure the Bosch Connectix D6100:

Parameter	Section	Settings	Comments
Output Format	2.5.15	2	
RS232 Direct Access Permission	4.5.9	0	
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.
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	
Retry Number	6.3.4	4	
ACK Wait	6.3.5	4	
Network Automation Output Format	6.3.6	2	
Device	6.3.7	1	

- End -

Configuring Sync Time in the Bosch Connectix Receiver

Procedure 3-1 Configuring Sync Time in Bosch Connectix Receiver D6100

Step	Action
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 3-2 Configuring Sync Time in Bosch Connectix Receiver D6600

Step	Action
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.

- End -

Administration

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 4-1-1 Accessing the Alarm Categories Editor

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

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

- End -

Procedure 4-1-2 Adding Alarm Categories

Step	Action
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**.

- End -

Procedure 4-1-3 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**.

- End -

Procedure 4-1-4 Accessing the Alarm Configurations Editor

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

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

- End -

Procedure 4-1-5 Modifying Existing Alarms

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

- End -

Procedure 4-1-6 Configuring New Alarms

Step	Action
1	Click **Add** to add a new row for the new alarm configuration
2	Select the protocol from the **Format** drop-down list.
3	Select the category from the **Category** drop-down list.

Note

Categories in the list are derived from the Alarm Category configuration

4	Enter a 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** check-box, optional, to display user information in the message displayed when the alarm is activated or deactivate.
8	Click **Save and Close**.

- End -

Procedure 4-1-7 Deleting Alarm Configurations

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

- End -

Configuring Bosch Receivers

Procedure 4-2-1 Adding a New Bosch Receiver

Step	Action
1	Click on **Create New Item**  icon.
2	Click on 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, de-select the check-box.

5	Enter the IP Address of the receiver in the **IP Address** text box
6	Double click **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	Select **Object Selector** in the **Time Zone** text box to edit message filtering options.
11	In the **Message Delivery** tab, select J**ournal Options**, then **Message Filter Options**. See*Table 1 on page 14* for further information on dialog box selections for **Message Filter Options.**
12	Select  next to **Online**, 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 event action from the right column
15	Select **OK** to confirm selection or **Cancel** to exit
16	Select  next to **Off-line**, the Object Selector dialog box displays
17	Select **Action Item** from the left column. This will filter results in the right column
18	Select the required event action from the right column

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

Note

Select  next to an **Online** or **Off-line** alert to remove it

20 Select  in the Associations section. The Object Selector dialog box displays

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

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

23 Repeat steps 19-21 to add more associations

Note

Select an association, then select  to remove it

24 Select **Save**

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 1: Dialog Box Selections for Message Filtering

- End -

Procedure 4-2-2 View All Bosch Receivers

From the **Setup** tab, users can view all configured Bosch Receivers

Step	Action
1	Click on **Show All Items**  icon.
2	Select the **Bosch Receiver** icon.

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

- End -

Configuring Bosch Alarm Points

Procedure 4-3-1 Add New Alarm Point

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

Step	Action
1	Expand **Bosch Receiver** in the Device List by selecting 
2	Right click on 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 de-select to disable. The default setting is enabled
7	Enter the **Panel Account** number
8	Enter the **Alarm Port** number
9	Select **CID** (Contact Identification) or **SIA** (Security Industry Association) from the **Format** drop down menu
10	Select the category from the drop down list
11	Select **Alarm Type** from the drop down menu. Available selections are dependant on **Format** selection
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 object from the right column
15	Select **OK** to confirm selection or **Cancel** to exit
16	If required, select  next to **Inactive** alerts, the Object Selector dialog box displays
17	Select **Action Item** from the left column. This will filter results in the right column
18	Select the required object from the right column
19	Select **OK** to confirm selection or **Cancel** to exit
20	Select  in the Associations section. The **Object Selector** dialog box displays
21	Select an association type from the left column. This will filter results in the right column
22	Select the required association from the right column. Select **OK** to confirm the selection or **Cancel** to exit

23 Repeat steps 19-21 to add more associations

Note

Select an association, then select  to remove it

24 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.

- End -

Procedure 4-3-2 Importing Alarm Points

Step	Action

1 Create a .txt or .csv file containing the required alarm point data, as shown in Figure 4-1 Import Alarm Points Data.

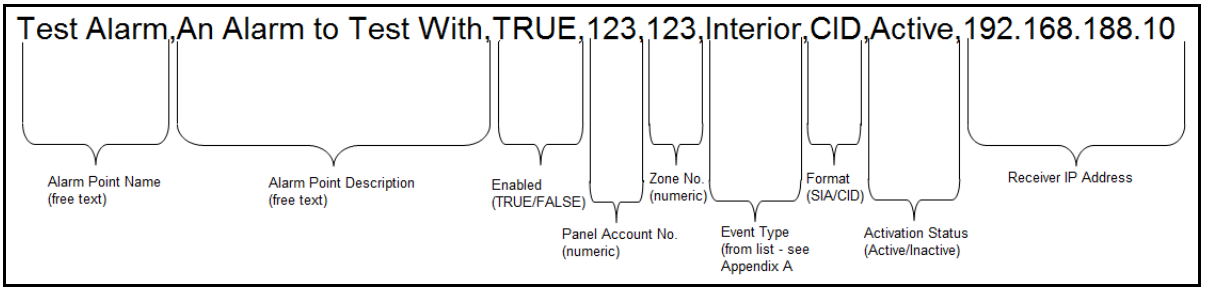


Figure 4-1 Import Alarm Points Data

2 Save the .txt or .csv file.

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

4 Click on the **Import Alarm Point** icon. **Please select a file to import** dialog box displays.

5 Navigate to the location of the saved .txt or .csv file.

6 Select **Open**.

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

8 Select **Close**.

- End -

Procedure 4-3-3 Editing Alarm Points

Alarm Point editor allows changes to Alarm Points already configured.

Step	Action
1	Click on **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**.

- End -

Procedure 4-3-4 Displaying Alarm Points

Step	Action
1	Click on **Show All Items**  icon.
2	Select the **Alarm Point** icon**.**
3	All configured alarm points are displayed in an Object List.

- End -

Troubleshooting

Troubleshooting

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

Problem:

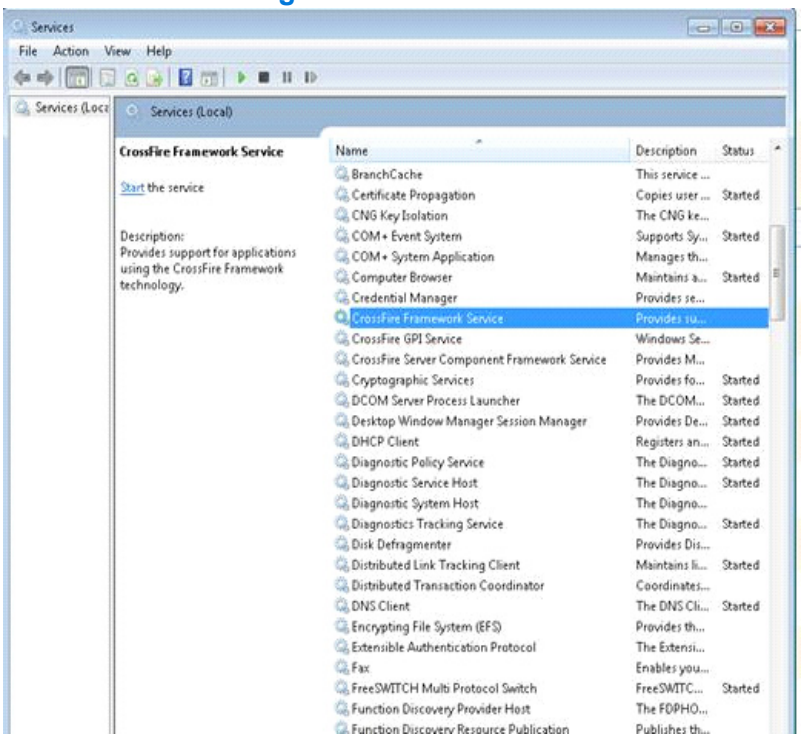
Sometimes the installation may fail if the CrossFire service does not stop on time and throws a time out error.

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 5-1 CrossFire Services on page 18.
- Wait till the CrossFire service is stopped and then trigger the installation again. This will work fine as the service is stopped already.

Figure 5-1 CrossFire Services



Appendix A

Journal Log Messages

Bosch Messages logged in the victor Activity Viewer

Message Type	Message Description
Device Activity	Device online status messages (unknown, online, offline)
Device Activity	SIA messages
Device Activity	CID 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’