BVMS 5.5 and Intrusion Panel Integration Guide

Overview

The purpose of this technical brief to is to provide easy steps to troubleshoot integration issues with BVMS 5.5 and Bosch Intrusion Panels.

• This technical brief does not provide steps to configure intrusion panels beyond basic communication settings

Prior to Starting

Certain steps in this paper are based on the assumption that you have the following:

- A licensed BVMS system with a valid extension or expansion for a Bosch Intrusion Panel
- You have installed or have access to RPS software
- Certain steps will require you have a valid RPS License Dongle and the proper USB cable to establish communications to the intrusion panel if changes are required. RPS software can be downloaded from the following link:
 http://us.boschsecurity.com/us_product/products/intrusionalarmsystems/controlpanelsandkeypads/bseries/b5512controlpanel/b5512controlpanel_4110
- The intrusion panels you are working with meet minimum firmware requirements for successful integration:
 - Firmware for G Series Panels: 3.03 or higher
 - o Firmware for B Series Panels: 2.04 or higher
- It is recommended you know the IP address of the panel you are trying to communicate with, or have a copy of the panel's
 *.XML file which contains the panels configuration

Quick Add with Default Settings

To add any supported Intrusion Panel to BVMS log into BVMS Configuration Client:

- From the "Devices" menu select the "Other Devices" sub menu
- Right click the "Intrusion Panels" icon and select "Add Panel"

| Other Devices [10] | |
|--------------------------|-----------|
| Communication Devic | |
| 🗉 🄜 POS + ATM [1] | |
| 🗉 📻 Foyer Card Readers [| |
| - 🔊 Virtual Inputs | |
| - SNMP | |
| CCTV Keyboards | |
| - l/O Modules | LEED |
| Allegiant CCL Emulati | |
| Mobile Video Services | 3 |
| Intrusion Panels | |
| VRM Devices [1] | Add Panel |

- This should open an "Add Intrusion Panel" pop up menu:
 - Enter the IP address for the intrusion panel
 - Network port (Default): 7700
 - Automation Passcode (Default): Bosch_Auto
- Select "OK"

Note: If these default communication settings do not work troubleshooting steps are covered later in this document.

 BVMS should establish communications with the panel, and then scan the panel for it's settings

| Network address: | 192.168.1.12 | |
|----------------------|--------------|-------|
| | - | |
| Network port: | | 7700 |
| Automation Passcode: | ****** | |
| | 01/ | Ormed |

| Scanning 192.168.1.12 | × |
|-----------------------|---|
| | |



- Once the panel has been scanned it will be added to the device tree
 - Place holders for all possible keypads will be included with the panel even though they are not present or have not been configured:

| Intrusion Panels [1] | Settings | |
|--|-------------------------|---------------------------|
| Bosch's New B5512 (192.168.1.12) [3] | Network Settings | |
| 🗉 🔚 Bosch's New B5512 (192.168.1.12) [4] | | |
| - Keypad 1 (192.168.1.12) | Network Address: | 192.168.1.12 |
| - E Keypad 2 (192.168.1.12) | | |
| - E. Keypad 3 (192.168.1.12) | Network Port: | 7700 🚖 |
| - E. Keypad 4 (192.168.1.12) | | |
| - E. Keypad 5 (192.168.1.12) | Automation Passcode: | ••••• |
| - Expad 6 (192.168.1.12) | | |
| - Keypad 7 (192.168.1.12) | Type: B5512 (Rps v2.9.0 | 0.0 Automation v3.51.0.0) |
| - 🌆 Keypad 8 (192. 168. 1. 12) | | |

Communication Settings and Troubleshooting:

If attempts to establish communications with any panel via default settings fail you must validate the Automation and Communication settings in your intrusion panel

Accessing Existing Settings:

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The first step in troubleshooting a communication issue is to access the panel's settings. If you have copy of the intrusion panel's *.XML configuration file you can validate settings based on what is already configured in the panel. You do not need an RPS license dongle to access a panel's XML file to validate settings. You DO need a license dongle if you intend to establish live communications with the panel to read current configurations and or make changes.

- Open RPS and log in to the program using the default account information:
 - User Name: admin
 - Password: 1111

This should open up the RPS Application



- From the "File" menu select "Import" option
 - o This will open a browser window, navigate to the location of the panel's *.XML file
 - Highlight the file and select "open

| ile Lists Operati | ons Reports | Compute | New Volume (| D:) • PanelVideo • panel • | panel 🕨 | ▼ 4 Search panel | , J |
|--------------------------|-------------|---|----------------------------------|---|-------------------|------------------|-------------|
| Backup | | Organize • New folde | r Name | * | Date modified | Туре | Size |
| Restore | | Desktop | Alex 85512 | 12_B5512_2,_Software_B3512 DemoKit XMI | 3/23/2015 3:22 PM | XMI Document | 1.440 K |
| Import | | Libraries | Alex_B5512 | _DemoKit_2.XML 2 RVMS Alarm Papel XMI | 3/2/2015 9:29 AM | XML Document | 1,440 Ki |
| Export History Export | + | Documents Music Pictures Videos | | | 57672010 5.10 744 | | 1,000 10 |
| System Note | | Computer | | | | | |
| Print | Ctrl+P | Windows (C:) | | | | | |
| Logout ADMIN | t | | <pre>Alex_B5512_De</pre> | emoKitXML | Ш | • Open | • Cancel |



• Once you have imported the *.XML file into RPS right click the item in the panel list and select "Open"

| Ne | w View Delete Locate Op | en Filter Delete | a View | | |
|----|----------------------------------|------------------|--------------|-----------------------|------------------|
| | Panel Name | 2 Panel Type | Account # | Description | |
| • | Alex B Series Demo Kit demo 2 | B5512 B5512 | 6043 6043 | New | Ctrl+N |
| | Demo B5512 | 60012 | 0000 | Open | Ctrl+O |
| | | | | Delete Delete View | Del Shift+Del |
| | | | | Locate Filter | Ctrl+L |
| | | | | Make Link | |
| | | | | Export Selection | |

Critical Communication Settings:

Once the panel configuration has been opened in RPS there are several communication settings that need to be validated. The location of these settings are covered in the order of appearance in the menu structure:

The Onboard Ethernet Communicator menu contains two settings that are critical for successful communications with BVMS, the panel's network address and automation network port. To access this menu:

- Select the "PANEL WIDE PARAMETERS" menu
- Select the "On Board Ethernet Communicator" sub menu
- With this menu selected make a note of the devices IP address and the "TCP/UPD Port Number"
- If these settings have been changed from default attempt to use the current settings you see to establish communications between BVMs and the panel

Panel - Alex B Series Demo Kit (Account - 6043)



| ON BOARD ETHERNET COMMUNICATOR | Module 1 |
|---------------------------------------|----------------------|
| IPv6 Mode | No |
| IPv4 DHCP/AutoIP Enable | No |
| IPv4 Address | 192.168.1.12 |
| IPV4 Subhet Mask | 255.255.255.0 |
| IPv4 Default Gateway | 192.168.1.1 |
| IPv4 DNS Server IP Address | 0.0.0.0 |
| IPv6 DNS Server IP Address | |
| UPnP (Universal Plug and Play) Enable | Yes |
| ARP Cache Timeout (sec.) | 600 |
| Module Hostname | |
| TCP/UDP Port Number | 7700 |
| TCP Keep Alive Time (sec.) | 45 |
| IPv4 Test Address | 8.8.8.8 |
| IPv6 Test Address | 2001:4860:4860::8888 |
| Alternate IPv4 DNS server IP address | 0.0.0.0 |
| Alternate IPv6 DNS server IP address | |



The AUTOMATION menu also contains two critical communications settings, the "Automation Mode" and the "Automation Passcode"

- Navigate toe the "AUTOMATION" menu which is the third option from the bottom in RPS
- The "Automation Device" option must be set to "MODE 2", if any other setting is entered BVMS will not communicate with the panel.
 - If this setting is incorrect you will need to establish direct communications with the panel to change it. The required steps to establish communication are listed later in the document
- Make a note of the "Automation Passcode"
- If this setting has been changed from default attempt to use the current setting you see to establish communications between BVMs and the panel

Panel - Alex B Series Demo Kit (Account - 6043)

| Enhanced Communication SDI2 RPS / Enhanced Comm Power Supervision RPS Parameters Miscellaneous Personal Notification AREA WIDE PARAMETERS | - | |
|---|--|------------|
| KEYPADS CUSTOM FUNCTIONS | AUTOMATION | Entry |
| SHORTCUT MENU GUTPUT PARAMETERS | Automation Device | Mode 2 |
| | Status Rate | 0 |
| | Automation Passcode | Bosch_Auto |
| | Application Passcode | Bosch RSC |
| HARDWARE SWITCH SETTINGS | Mode 1 Automation Ethernet Port Number | 7702 |

Establishing Communications with RPS:

If modifications to the panel's communication settings need to be made, you must have a valid RPS license Dongle and connection via a USB cable in order to connect to the panel with RPS. With RPS and the panel settings open as in previous step:

• Select the "Connect" option from the RPS tool bar to open the communication menu

| From the "Panel Communication" pop up menu select | |
|---|--|
| the "USB" option in the "Connect Via" drop down | |
| menu | |

o Select the "Connect" tab

| 🥙 Panel View (Firmwa | are Version - 2.04.0 | 005) |
|----------------------|----------------------|----------------|
| File Edit Operation | ns Help | |
| ← → 🍕 🧰 🎽 | | |
| Panel - Alex B Ser | es [Connect t (Ad | :count - 6043) |

| 12 Parler Communication | |
|--------------------------------|------------|
| Connect⊻in: USB | Y |
| <u>R</u> PS Passcode: Museular | Eanel Test |
| Com Port 4 | |
| Status | |
| . Configuring port | Convect |
| | Answer |
| | <u>.</u> |



• Once connected and necessary changes have been made to the communication settings, select the "Save" tab at the bottom of the RPS application

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• After saving your changes select the "Send/Rcv" menu tab to push the changes to the panel. This pushes all changes to the panel



• Select the "Disconnect" menu option



- During disconnection you will receive an "End Session" pop up menu. You MUST select the "Reset Panel" option before selecting "OK"
 - If the panel does not reset changes will not take effect



