



**BOSCH**

## **Control panels**

B Series: B6512, B5512, B4512, B3512

**en**    Release notes



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# 1 Introduction

These Release Notes are for control panel firmware version 3.11.

## 1.1 About documentation

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The following image shows an example of a product label and highlights where to find the manufacturing date within the serial number.



## 1.2 Requirements

This section shows requirements for RPS (Remote Programming Software) and Conetix Receiver/Gateways to support this control panel firmware version.

### 1.2.1 Remote Programming Software (RPS)

To use all new features of this firmware version, you must use RPS version 6.11 or higher.

## 1.2.2 Conettix Receiver/Gateway

### Conettix Modem4 format

When you configure the control panel to send reports in Conettix Modem4 format, the Conettix central station receiver/gateway and the D6200CD Receiver programming software might require an update.

### Conettix Modem4 reporting format requirements

Receiver/Gateway	CPU version	D6200CD version
D6600 Central station receiver, 32-line (with D6641 Telephone line card installed only)	01.10.00	2.10
D6100IPV6-LT Central station receiver, 2-line, IP	01.10.00	2.10

### Conettix ANSI-SIA Contact ID format

When you configure the control panel to send reports in Conettix ANSI-SIA Contact ID format, the Conettix central station receiver/gateway and the D6200CD Receiver programming software might require an update.

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## ULC-S304 and ULC-S559 compliant report format

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### Notice!



ULC-S304 and ULC-S559 compliant report format

For ULC-S304 and ULC-S559 compliant report formats, the Conettix central station receiver/gateway and the D6200CD Receiver programming software need to use the version in the table.

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### ANSI-SIA DC-09 format

Use of the ANSI-SIA DC-09 format requires a central station receiver that supports this IP communicator format. Bosch Conettix central station receivers do not currently support this format.

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## 2 Firmware version 3.11

### What's new

- *Panic point type, page 9*
- *Environmental point types, page 9*
- *Configurable passcode security, page 9*
- *Temporary passcode, page 9*
- *IP camera wired input support, page 9*
- *FIPS compliant control panel firmware, page 10*
- *Support for updated B and G Series control panel certificates, page 10*

### Corrections

- *Holiday Index 2, page 11*
- *History log corruption during firmware upgrade, page 11*

### Known issues

- *Passcode security synchronization with RPS and new panel, page 12*
- *Programming new point types on firmware versions older than v3.11, page 12*
- *Personal notification email, page 13*
- *Keypad lockdown period (keypad lockouts on failed passcode attempts), page 13*

## 2.1 What's new

This section examines the new features of this firmware version.

### **2.1.1 Panic point type**

Added the Panic point type to the panel, which is a 24-hr burglary alarm intended for a panic input device.

### **2.1.2 Environmental point types**

New point types are available:

- Water - alarm to indicate a water leak event.
- High Temp - alarm for a high temperature event.
- Low Temp - alarm for a low temperature event.

### **2.1.3 Configurable passcode security**

User passcode tamper is now configurable for keypads and Automation clients to detect and act based on a defined number of invalid authentication attempts.

### **2.1.4 Temporary passcode**

A one-time (single use) disarm authority passcode can be granted to a user for 1 or multiple control panel areas for temporary access. The associated authority level defines the user as a temporary user and only allows the user to disarm the system once, then the authority/passcode expires.

### **2.1.5 IP camera wired input support**

The IP Camera Point Source now includes 2 wired inputs of an IP camera.

Configure the IP camera sources in RPS Point Assignments within Point groups. For example, Points 10 and 19 for IP camera 1, Points 20 and 29 for IP camera 2, Points 30 and 39 for IP camera 3, up to the number of cameras available on each control panel type.

### **2.1.6 FIPS compliant control panel firmware**

RPS has been updated to operate in a secured Windows environment, such as FIPS (Federal Information Processing Standards).

- An additional AES/SHA encrypted firmware package is available for the B Series and G Series control panels in the Downloads > Software section of the Bosch Intrusion product catalog. This firmware can be used by any RPS 6.11 or newer installation.
- The appropriate firmware encrypted file is named by control panel type, firmware version number with the \_SHA.fwr extension to indicate SHA encryption (B3512\_B4512\_ B5512\_ B6512\_FW\_3.11.xxx\_SHA.fwr).

### **2.1.7 Support for updated B and G Series control panel certificates**

Control panel firmware v3.11 introduces a new security certificate in advance of the current certificate expiration in April, 2022. This certificate is used for most automation (integration) and RPS TLS connections to the panel. The panel Cloud certificate is not affected. All Cloud connections will continue to function as they do today.

RPS v6.11 has been updated to accommodate this new panel security certificate automatically.

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**Notice!****Important**

Customers upgrading or installing panels with firmware v3.11 must upgrade RPS to v6.11, and review other integrated applications (Bosch or 3rd Party) that need to use the new Bosch certificate, in order to maintain TCP connections to the panel after March 2022.

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Customers using RPS with panel firmware v3.10 or older will not be affected by the certificate expiration and operations will continue without interruption.

## 2.2 Corrections

This section examines the corrections made in this firmware version.

### 2.2.1 Holiday Index 2

**Notice!**

This applies only for B6512.

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Holiday Index 2 did not execute as programmed and has been fixed in this firmware version.

### 2.2.2 History log corruption during firmware upgrade

Panel firmware upgrades from v3.06, or earlier, to v3.07 through v3.09 may lose events from the history log. The issue occurs during a reset or reboot of the control panel. The history log from the older panel should be uploaded prior to an upgrade to v3.07 - v3.09.

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V3.10 resolves this issue and removes any corruption within the history log.

## 2.3 Known issues

This section examines the known issues of this firmware version.

### 2.3.1 Passcode security synchronization with RPS and new panel

When connecting to a new control panel with v3.11 firmware using RPS v6.11, and then receiving the configuration from the new panel, the next send/receive option will open the Panel Synchronization window because the Passcode Security parameter in the control panel does not match the setting of the Passcode Security parameter in RPS. Clicking the **See data differences** option in the Panel Synchronization window does not show a difference between the Passcode Security parameter in RPS and the control panel.

#### Recommendation

Send the RPS configuration to the panel to make RPS and the panel Passcode Security parameters match.

### 2.3.2 Programming new point types on firmware versions older than v3.11

When using RPS 6.11 to program a new Panic Point or Environmental Point (Water, High Temp, Low Temp) on a control panel system with earlier firmware versions than v3.11, the system will not generate alerts and conditions as expected.

For some scenarios, the Low Temp point type will generate a trouble event and in all scenarios the Panic, Water and High temp point types will not generate any event condition.

**Recommendation**

Upgrade the control panel firmware to v3.11 or higher if these new point types are needed.

**2.3.3 Personal notification email**

When using email personal notifications, some server configuration options (e.g. Gmail's 2-Step verification, Allow less secure apps: Off) may not work properly. In order to ensure operation, disable additional email server options.

**2.3.4 Keypad lockdown period (keypad lockouts on failed passcode attempts)**

If the value of lockout time is beyond 6553 seconds, the keypad lockout operation may not work properly. In order to ensure operation, set the lockout time below 6553 seconds.

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## 3 Firmware revision history

This section examines the notable features of previous revisions of this firmware.

### 3.1 Firmware version 3.10

#### 3.1.1 Configurable outputs

Output Profiles support custom programming and provide a way for outputs to operate based on unique application requirements.

Once an Output Profile is created, it can be reused and assigned to multiple outputs enabling quick output programming.

You can create Output Profiles that define how an output operates when specific events occur. Output Profiles provide a way to assign and use consistent output effects throughout the system.

#### 3.1.2 UL 985 6th Edition

This firmware version now supports the latest edition of:

- UL 985 Household Fire Warning Systems Units

### 3.2 Firmware version 3.09.050

#### 3.2.1 B444-A and B444-V support

The system now supports B444-A Plug-in cell module, AT&T LTE and B444-V Plug-in cell module, Verizon LTE.

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## **B444-A/B444-V SIM card activation**

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### **Caution!**



Activate the B444-A/B444-V SIM card before inserting. Failure to do so might result in failed communications to the control panel/module. Upon first power-up of the B444-A/B444-V, it might take up to 15 minutes for the activation process to be completed.

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### **3.2.2 ANSI-SIA DC-09 format**

The system now supports the following network communicator formats:

- Conettix Modem4
  - Conettix ANSI-SIA Contact ID
  - ANSI-SIA DC-09
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### **Notice!**



UL and ULC LISTED applications  
ANSI-SIA DC-09 format is not available for UL and ULC LISTED applications.

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### **3.2.3 Security of Connected Devices**

In order to comply with the Security of Connected Devices Act (TITLE 1.81.26. Security of Connected Devices) and related legislation, this product uses a unique connection password.

The “RPS Passcode” for the initial connection to this product must match the unique Cloud ID of the product.

Ensure your RPS Operator uses the unique Cloud ID that is labeled on the product and included on the card in the box of the product.

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### 3.2.4 Output Response Type operation

In control panel firmware v3.09.024, the configuration selections 1 and 2 of the Output Response Type operation were not working correctly. This has been corrected in control panel firmware v3.09.050.

If you made changes in control panel firmware v3.09.024 to ensure proper operation, those changes are no longer required.

- ▶ In Output Response Type operation, return configuration selections 1 and 2 back to their expected, and documented, configuration.

## 3.3 Firmware version 3.08

### 3.3.1 Language support

Adds support for Dutch, German, and Swedish.

When both the control panel first language and the second language are set to Dutch, English, French, German, Hungarian, Italian, Portuguese, Spanish, or Swedish, the system uses the Standard, Latin-1 character set.

When either the control panel first language or the second language is set to Chinese, Greek, or Polish, the system uses the Extended, UTF-8 Unicode character set.

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### Notice!



#### **Only B915/B915i and B942 keypads support Extended, UTF-8**

Only B915/B915i keypads with firmware version 1.01.010 or higher, and B942 keypads with firmware version 1.02.022 or higher support the Extended, UTF-8 character set

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### **3.3.2 Door shunt time**

The longest possible selection for the door shunt time has been extended from 240 seconds to 8 hours.

This selection is available with the following firmware versions:

- Control panel firmware v3.08 or higher
- Remote Programming Software firmware v6.08 or higher
- B901 firmware version v1.05 or higher.

### **3.3.3 Backup destination devices**

The control panel can send reports to four different route groups using one primary and up to three backup destination devices for each route group.

### **3.3.4 Custom test report**

Either send a normal test report or a custom test report can be sent:

- Normal test report: Includes all route groups that have the test report function enabled, independent of which destination device is used to communicate. The test report is sent to the first successful destination device in a route group.
- Custom test report: You can select the route group and destination device you want to test. You can either test one destination device per route group or all configured destination devices for a route group.

## **3.4 Firmware version 3.07**

### **Notable features**

- *Incoming RPS connections, page 18*
- *B444 signal strength indication, page 18*
- *Stabilization of cell card performance, page 18*

- *APN usage for B442 and B443, page 18*

### **3.4.1 Incoming RPS connections**

In addition to answering incoming calls from RPS using UDP (User Datagram Protocol), incoming calls from RPS using TCP (Transfer Control Protocol) are also supported. RPS version 6.07 is required for this modified connection method.

### **3.4.2 B444 signal strength indication**

The B444 signal strength LED indication has been modified to more accurately represent performance. While LTE tower switching may still occur, their individual signal strength indications are more accurate.

### **3.4.3 Stabilization of cell card performance**

Cell card stability enhancements are included within this firmware release.

### **3.4.4 APN usage for B442 and B443**

The B442 and B443 plug-in cellular modules shall attempt connections using APNs in the following order:

1. Primary configured APN
2. gne
3. wyless.apn
4. wyless.com.attz

The plug-in cellular module will select and use the most appropriate APN.

If the APN is erroneous, the panel keypads may not display the details of this trouble condition.

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## 3.5 Firmware version 3.06

### Notable features

- *Language support, page 19*
- *Keypad programming, page 20*
- *PSTN, page 20*
- *Point Profile Circuit Style, page 20*
- *System Tamper Response, page 20*
- *Passcode [Esc], page 20*
- *Panel Event Log size, page 20*
- *New default for network Access Point Name (APN) parameter, page 21*

#### 3.5.1 Language support

Adds support for Chinese, Greek, Hungarian, Italian, and Polish.

When both the control panel first language and the second language are set to English, French, Hungarian, Italian, Portuguese, or Spanish, the system uses the Standard, Latin-1 character set.

When either the control panel first language or the second language is set to Chinese, Greek, or Polish, the system uses the Extended, UTF-8 Unicode character set.

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### Notice!



#### **Only B915/B915i and B942 keypads support Extended, UTF-8**

Only B915/B915i keypads with firmware version 1.01.010 or higher, and B942 keypads with firmware version 1.02.022 or higher support the Extended, UTF-8 character set

### **3.5.2 Keypad programming**

Added keypad programming options to the Installer Menu, such as a Device menu and a Miscellaneous menu. Detailed menu tree information can be found within the updated Installation Manual.

### **3.5.3 PSTN**

Expanded PSTN compatibility parameter to support additional countries.

### **3.5.4 Point Profile Circuit Style**

Expanded Point Profile Circuit Style options to include “Dual 1K EOL with Tamper”, “Single 1K EOL with Tamper”, and “Single 2K EOL with Tamper” selections. Selecting any of these styles enables sending the new Point Tamper Alarm and Point Tamper Alarm Restoral reports.

### **3.5.5 System Tamper Response**

Added System Tamper Response parameter to configure system behavior and reporting during armed states.

### **3.5.6 Passcode [Esc]**

Keypad Passcode [Esc] option now applies to both SDI and SDI2 keypads.

### **3.5.7 Panel Event Log size**

Changed Panel Event Log size to: B3512=512, B4512=512, B5512=1024, B6512=1024.

### **3.5.8 New default for network Access Point Name (APN) parameter**

Firmware version 3.06 and RPS version 6.05 changed the default network APN parameter to eaaa.bosch.vzwentp. The previous default - wyless.apn - is still valid. There is no need to change the APN for existing accounts.

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## 4 Open source software 3.11

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## **RSA data security**

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The "RSA Data Security, Inc. MD5 Message-Digest Algorithm" is included in the control panel firmware.

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## **Time routines**

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