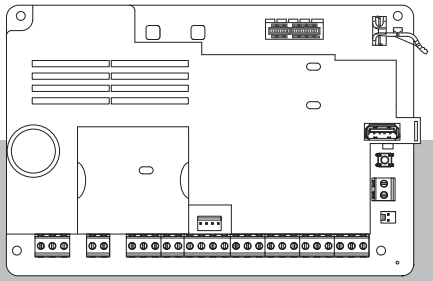
Control panels

B Series: B6512, B5512, B4512, B3512



en Release notes

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1 Introduction

These *Release Notes* are for control panel firmware version 3.14.012.

1.1 About documentation

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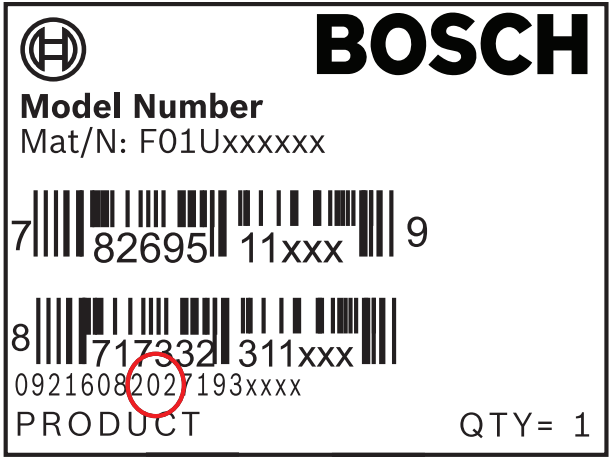

1.2 Requirements

This section shows requirements for RPS (Remote Programming Software) and Conettix 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 6.12 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.

ULC-S304 and ULC-S559 compliant report format

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.

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.

2 Firmware version 3.14.012

Note: There is no release of control panel firmware version 3.13. The control panel firmware version has been skipped to version 3.14 in order to maintain numerical synchronization with the matching RPS software release.

What's new

- *B444-A2 Plug-in Cellular Communicator support, page 9*
- *B444-V2 Plug-in Cellular Communicator support, page 9*

Corrections

- *Force Arm Returnable Updated, page 10*
- *Entering 26-bit Card Type access data from keypad, page 10*
- *Door Unlock command from a SKED or Custom Function, page 10*
- *Panel will not fall back to "cloud over cellular" connection if Ethernet DNS failure occurs, page 11*
- *Cellular operation may fail if Ethernet DNS is not public, page 11*

Known issues

- *Area Opening Report not sent when switching from All-On to Part-On arm state, page 12*
- *Technical Bulletin - G Series, B Series personal notification email, page 12*

2.1 What's new

This section examines the new features of this firmware version.

2.1.1 B444-A2 Plug-in Cellular Communicator support

New cellular module support for the B444-A2 Plug-in cell module, AT&T LTE.

2.1.2 B444-V2 Plug-in Cellular Communicator support

New cellular module support for the B444-V2 Plug-in cell module, Verizon LTE.

2.2 Corrections

This section examines the corrections made in this firmware version.

2.2.1 Force Arm Returnable Updated

In previous firmware versions, when the Force Arm Returnable parameter of a point profile was set to YES, after disarming the system, the user had to manually unbypass any forced points with that profile. With firmware version 3.14.010, when the Force Arm Returnable parameter is set to YES, any forced point(s) will automatically unbypass and return to normal, once the system is disarmed.

2.2.2 Entering 26-bit Card Type access data from keypad

In firmware version 3.11 and 3.12, access card data being entered from a keypad did not upload to the control panel accurately.

2.2.3 Door Unlock command from a SKED or Custom Function

In firmware version 3.11, the Door Unlock feature allowed a user to unlock a door via a SKED or Custom Function, even if the area was armed. This correction prevents the Door Unlock command from a SKED or Custom Function during an armed state.

2.2.4 Panel will not fall back to "cloud over cellular" connection if Ethernet DNS failure occurs

If both Ethernet and cellular Cloud Remote Connect parameters are enabled, the panel will not switch to “cloud over cellular” if “cloud over Ethernet” connection has a DNS failure. This issue has been corrected.

2.2.5 Cellular operation may fail if Ethernet DNS is not public

When programming a specific DNS server IP address for IPv4 Ethernet, it will be shared by cellular. If the IPv4 DNS address for Ethernet is not accessible on the public network, then the cellular interface will be unable to resolve URLs.
When using both on-board Ethernet and cellular, a private IPv4 DNS is required for Ethernet. A separate DNS setting for plugin cellular is now available.

2.3 Known issues

This section examines the known issues of this firmware version.

2.3.1 Area Opening Report not sent when switching from All-On to Part-On arm state

An **Area Open Report** might not send if a user changes the area from **All-On**, then to **Part-On**, and then disarms. When switching from **Part-On to Disarm**, **Area Open Reports** are only sent if **Part-On Reports** are enabled. These reports are off by default. Enabling the **Part-On Reports** addresses this issue.

2.3.2 Technical Bulletin - G Series, B Series personal notification email

The personal notification email messaging may stop working for some customers, due to email provider security features using Two-Step Verification. Use the email provider's security page (Google, for Example) to create an App Password. That password will be used in the control panel, as the email server Authentication Password, to allow the personal notification emails to function. Please see the "Technical Bulletin G Series, B Series personal notification email" for more information.

3 Firmware version 3.12.024

What's new

- *B444-A Plug-in Cellular Communicator Module Is Not Recognized, page 13*
- *Fail to Close Report, page 14*

Refer to

- *Support for 35-Bit HID access control credentials (B6512 only), page 16*
- *Enhanced AT&T cellular communications, page 17*

3.1 What's new

This section examines the new features of this firmware version.

3.1.1 B444-A Plug-in Cellular Communicator Module Is Not Recognized

Some B444-A cellular modules may report as "invalid" during installation and will not be recognized by the B or G Series control panel. This firmware version allows the cellular host device to properly recognize these B444-A modules.

3.1.2 Fail to Close Report

Some problematic Arming scenarios may send a Fail to Close report. This report should only be sent if the Area has not been Closed at the end of the Closing Window. This firmware version resolves this potential issue.

4 Firmware version 3.12.020

What's new

- *Support for 35-Bit HID access control credentials (B6512 only), page 16*
- *Enhanced AT&T cellular communications, page 17*

Corrections

- *Forced Arming Issue with Firmware 3.11.530, page 17*

Known issues

- *Passcode security synchronization with RPS and new panel, page 18*
- *Programming new point types on firmware versions older than v3.11, page 18*
- *Personal notification email, page 19*
- *Keypad lockdown period (keypad lockouts on failed passcode attempts), page 19*

Refer to

- *B444-A Plug-in Cellular Communicator Module Is Not Recognized, page 13*
- *Fail to Close Report, page 14*
- *Improved connectivity to the Verizon network, page 20*

- *Environmental point types, page 21*
- *Support for updated B and G Series control panel certificates, page 23*
- *Configurable passcode security, page 22*
- *FIPS compliant control panel firmware, page 23*
- *Temporary passcode, page 22*
- *Panic point type, page 21*
- *IP camera wired input support, page 22*
- *History log corruption during firmware upgrade, page 21*
- *Holiday Index 2, page 20*

4.1 What's new

This section examines the new features of this firmware version.

4.1.1 Support for 35-Bit HID access control credentials (B6512 only)

Support of 35-bit HID credentials allows customers who use the Corporate 1000 format to use these cards with Bosch panels and the B901 Access Control interface. This is in addition to the 26-bit and 37-bit format cards that were previously supported. Note that this feature is available only for the B6512 control panel.

4.1.2 Enhanced AT&T cellular communications

Enhancements have been added to improve B444-A operation and accommodate changes in the AT&T cellular network associated with the upcoming 3G sunset.

4.2 Corrections

This section examines the corrections made in this firmware version.

4.2.1 Forced Arming Issue with Firmware 3.11.530

The 3.12 firmware version corrects an issue regarding the force-arm feature in our B9512G, B8512G, B6512, B5512, B4512 and B3512 control panels that may cause points that have been force-armed to remain bypassed with no indication at the keypad. Note that this issue exists only in firmware version 3.11.530.

4.3 Known issues

This section examines the known issues of this firmware version.

4.3.1 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.

4.3.2 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.

4.3.3 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.

4.3.4 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.

5 Firmware revision history

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

5.1 Firmware version 3.11.5

5.1.1 Improved connectivity to the Verizon network

FW V3.11.5 improves the management of the Verizon APN when using the B444-V or B444 Cellular Communicators, resulting in enhanced connection reliability.

5.1.2 Holiday Index 2

Notice!
This applies only for B6512.

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

5.1.3 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.
V3.10 resolves this issue and removes any corruption within the history log.

5.2 Firmware version 3.11

5.2.1 Panic point type

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

5.2.2 Environmental point types

New point types are available:
– Water - alarm to a indicate water leak event.
– High Temp - alarm for a high temperature event.
– Low Temp - alarm for a low temperature event.

5.2.3 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.

5.2.4 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.

5.2.5 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.

5.2.6 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*).

5.2.7 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.

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.

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

5.3 Firmware version 3.10

5.3.1 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.

5.3.2 UL 985 6th Edition

This firmware version now supports the latest edition of:

– UL 985 Household Fire Warning Systems Units

5.4 Firmware version 3.09.050

5.4.1 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.

B444-A/B444-V SIM card activation

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.

5.4.2 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

Notice!

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

5.4.3 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.

5.4.4 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.

5.5 Firmware version 3.08

5.5.1 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.

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

5.5.2 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.

5.5.3 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.

5.5.4 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.

6 Open source software 3.14.012

Bosch includes the open source software modules listed below in the firmware for this control panel. The inclusion of these modules does not limit the Bosch warranty.

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Bosch Security Systems B.V.
Torenallee 49
5617 BA Eindhoven
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