

# Conettix Plug-in Communicator Interface

B450





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# 1 Introduction

These *Release Notes* are for the B450 with **firmware versions v3.03 and v3.04**.

## 1.1 Requirements

B450 (with inclusion of a B44x Cellular Communicator module) supports the following control panels:

### Compatible control panels

B9512G/B8512G /B9512G-E/B8512G-E
B6512/B5512/B4512/B3512
B5512E/B4512E/B3512E
D9412GV4/D7412GV4 (v2.xx+)
D9412GV4/D7412GV4 (v1.xx+)
D9412GV3/D7412GV3/D7212GV3
D9412GV2/D7412GV2/D7212GV2 (v7.07+)
FPD-7024 (v1.03+)
AMAX 2000/2100/3000/4000 (v1.5+)
CMS 6/8, CMS 40
Easy Series v3+
Solution 2000/3000

## 1.2 About documentation

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Use the serial number located on the product label and refer to the Bosch Security Systems, Inc. website at <http://www.boschsecurity.com/datecodes/>.

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## 2 Firmware version 3.05

### What's new

- Remote Connect Service support, page 5
- B444 LTE modem support, page 5
- Secure connections using TLS v1.1 and v1.2 now supported, page 5
- New cell library, page 5
- International character support, page 5
- Operational improvements, page 6

### 2.1 What's new

This section examines the new features of this firmware version.

#### 2.1.1 Remote Connect Service support

Remote Connect Service enables a secure control panel connection to mobile apps and remote programming software using Bosch Cloud services. The service allows a secure TLS connection to a control panel without specific port and router settings and without a static IP or DNS.



#### Notice!

##### North America only

Remote Connect Services and Bosch Cloud services are currently available in North America only.

#### 2.1.2 B444 LTE modem support

B444 LTE modem support is now available on the Verizon network.

#### 2.1.3 Secure connections using TLS v1.1 and v1.2 now supported

The firmware now supports secure connections, including personal notification email servers, using TLS v1.0 (strong ciphers only), v1.1, and v1.2. In previous versions of the firmware, control panel TLS connections required TLS v1.0 support.

#### 2.1.4 New cell library

The new cell library improves the ability to send non-ASCII text characters. All Latin-1 characters available in the control panel are transmitted in text messages when using a B442/B443/B444. Additional character sets are supported but have not been tested.

##### Cellular modem compatibility table

Plug-in module	Firmware versions
B440/B440-C	15.00.021, 15.00.024, 15.00.026, and 15.00.027
B441/B441-C	18.01.022 and 18.02.022
B442	13.00.004, 13.00.006, 13.00.007, and 13.00.008
B443	12.00.024, 12.00.026, and 12.00.028
B444	4.3.3.0c

#### 2.1.5 International character support

Support for sending international characters in SMS text format are now supported for B442, B443, and B444.

## 2.1.6 **Operational improvements**

This firmware release contains operational improvements related to the B444 plug-in cellular module.

## 2.2 **Known issues**

This section examines the known issues of this firmware version.

### 2.2.1 **B444 signal strength**

The signal strength LED indicators on the B444 Conettix Plug-in 4G VZW LTE Cellular Communicator module may vary under normal conditions and should be used as a general guideline regarding signal strength and performance. This is due to various factors including:

- Switching frequency bands
- Switching cell towers
- Environmental conditions
- LTE technology factors such as:
  - Modulation scheme
  - Multipath effects
  - Interference

## 3 Version 3.03 firmware

### What's new

- *Option bus configuration programming, page 7*
- *Updated B440/B441 support, page 7*
- *SIA DC09 event reporting support for AMAX control panels, page 7*
- *Reporting Delay for Low Signal Strength default change, page 7*
- *No Towers Reporting Delay default, page 7*

### Corrections

- Signal strength
- Cellular reliability

### System considerations

- *Increased ACK wait times, page 8*
- *RPS diagnostics not available, page 8*
- *Using 2 B450 IP communicators in RPS and GV4 Series control panels, page 8*

## 3.1 What's new

This section examines the new features of this firmware version.

### 3.1.1 Option bus configuration programming

Configuration programming from an AMAX 2100/3000/4000 control panel to a B450 module is now available through A-Link Plus only if the AMAX 2100/3000/4000 control panel is at firmware version 1.5 or higher.

### 3.1.2 Updated B440/B441 support

B450 firmware v3.04 supports the latest versions of the B440 and B441 plug-in cellular modules (B440 v15.00.026 and B441 v18.02.022). The latest B440/B441 firmware includes updated libraries to maintain Verizon certification, and a correction to show the correct MEID on keypads in the Installer menu.

To use a B440 v15.00.026 or a B441 v18.02.022, the connected B450 must have firmware v3.04 or higher.

### 3.1.3 Reporting Delay for Low Signal Strength default change

The Reporting Delay for Low Signal Strength parameter default value was changed to a state of disabled. The original default value was 1800 seconds. The new default value is zero. When this value is set to zero seconds, this parameter is considered disabled.

### 3.1.4 No Towers Reporting Delay default

The Reporting Delay for No Towers parameter default value was changed to a state of being disabled. The original default value was 1800 seconds. The new default value is zero. When this value is set to zero seconds, this parameter is considered to be disabled.

### 3.1.5 SIA DC09 event reporting support for AMAX control panels

AMAX control panels now support SIA DC09 event reporting.

## 4 System considerations

This section examines system considerations of this version of firmware.

### 4.1 Increased ACK wait times

It is recommended to increase control panel ACK wait times as much as possible (up to 5 minutes) while retaining the required supervision time with the receiver. Doing so reduces the risk of COMM Fail conditions related to intermittent cellular network outages.

The ACK wait time in RPS version 5.19.3 (with Service pack 1 installed) has been increased to a default value of 15 seconds to adjust for network delays, improving overall communication.

### 4.2 RPS diagnostics not available

RPS diagnostics is not currently available when the B450 is set to address switch 2, and connected to a GV4 series control panel. Diagnostic information can be obtained from the B450 when the address switch is set to address switch 1.

Diagnostic information is also available through the USB port connection when local USB programming is enabled.

### 4.3 Using 2 B450 IP communicators in RPS and GV4 Series control panels

The settings in the B450 Cellular sub-menu within RPS (SDI2 MODULES → IP Communicator → B450 Cellular) share the module between address 1 and address 2. This occurs when using multiple B450s on the SDI2 bus with a GV4 series control panel. To apply different settings to one of the modules, you must disable control panel programming and use the USB or SMS configuration method.



## 5 Open source notifications

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

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