



BOSCH

Conettix Plug-in Communicator Interface B450



en

Release Notes

Table of contents

1	Introduction	4
1.1	Requirements	4
1.2	About documentation	4
2	Firmware version 3.05	5
2.1	What's new	5
2.1.1	Remote Connect Service support	5
2.1.2	B444 LTE modem support	5
2.1.3	Email servers using TLS v1.1 and v1.2 supported	5
2.1.4	New cell library	5
2.1.5	International character support	5
2.2	Known issues	6
2.2.1	B444 signal strength	6
3	Version 3.03 firmware	7
3.1	What's new	7
3.1.1	Option bus configuration programming	7
3.1.2	Updated B440/B441 support	7
3.1.3	Reporting Delay for Low Signal Strength default change	7
3.1.4	No Towers Reporting Delay default	7
3.1.5	SIA DC09 event reporting support for AMAX control panels	7
4	System considerations	8
4.1	Increased ACK wait times	8
4.2	RPS diagnostics not available	8
4.3	Using 2 B450 IP communicators in RPS and GV4 Series control panels	8
5	Open source notifications	9

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

Copyright

This document is the intellectual property of Bosch Security Systems, Inc. and is protected by copyright. All rights reserved.

Bosch Security Systems, Inc. product manufacturing dates

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

Trademarks

All hardware and software product names used in this document are likely to be registered trademarks and must be treated accordingly.

2 Firmware version 3.05

What's new

- Remote Connect Service support, page 5
- B444 LTE modem support, page 5
- Email servers using TLS v1.1 and v1.2 supported, page 5
- New cell library, page 5
- International character support, page 5

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 version 4.3.3.0-29979 on the Verizon network.

2.1.3 Email servers using TLS v1.1 and v1.2 supported

The firmware now supports personal notification with providers using TLS v1.0, v1.1, and v1.2. In previous versions of the firmware, personal notifications using email required that the email provider supports TLS v1.0.

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.

Telit 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

2.1.5 International character support

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

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.

Digital Equipment Corporation

Portions Copyright (c) 1993 by Digital Equipment Corporation.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies, and that the name of Digital Equipment Corporation not be used in advertising or publicity pertaining to distribution of the document or software without specific, written prior permission.

THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Digital historical

Copyright 1987 by Digital Equipment Corporation, Maynard, Massachusetts, and the Massachusetts Institute of Technology, Cambridge, Massachusetts.

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the names of Digital or MIT not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

DIGITAL DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL DIGITAL BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

OpenSSL License

Copyright (c) 1998-2008 The OpenSSL Project. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgment:

"This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)"

4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact openssl-core@openssl.org.

5. Products derived from this software may not be called "OpenSSL" nor may "OpenSSL" appear in their names without prior written permission of the OpenSSL Project.

6. Redistributions of any form whatsoever must retain the following acknowledgment:

"This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>)"

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

Regents of the University of California

Copyright (c) 1985, 1993

The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgement: This product includes software developed by the University of California, Berkeley and its contributors.
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

RSA data security

Copyright © 1991-2, RSA Data Security, Inc. Created 1991. All rights reserved.

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

RSA Data Security, Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

Time routines

Copyright © 2002 Michael Ringgaard. All rights reserved.

This software [Time routines] is provided by the copyright holders and contributors "as is" and any express or implied warranties, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose are disclaimed. In no event shall the copyright owner or contributors be liable for any direct, indirect, incidental, special, exemplary, or consequential damages (including, but not limited to, procurement of substitute goods or services; loss of use, data, or profits; or business interruption) however caused and on any theory of liability, whether in contract, strict liability, or tort (including negligence or otherwise) arising in any way out of the use of this software, even if advised of the possibility of such damage.

Bosch Security Systems, Inc.

130 Perinton Parkway
Fairport, NY 14450
USA

www.boschsecurity.com

© Bosch Security Systems, Inc., 2018

Bosch Sicherheitssysteme GmbH

Robert-Bosch-Ring 5
85630 Grasbrunn
Germany