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1.0 Requirements

Table 1: Required Handlers

D5200 Handler	Version	Changes and Notes
GV2MAIN	1.00	New handler for the GV2 Series Control Panels
RADXUSR1	1.06	Updated to support GV2 Series Control Panels
RADXUSR2	1.05	Updated to support GV2 Series Control Panels
RADXPNTS	1.06	Updated to support GV2 Series Control Panels
RADXSKED	1.04	Updated to support GV2 Series Control Panels
GV2AUX	1.00	New handler for the GV2 Series Control Panels
RADXAXS	1.06	Updated to support GV2 Series Control Panels
9000MAIN	NA	Not compatible with the GV2 Series Control Panels
RADXAUX1	NA	Not compatible with the GV2 Series Control Panels



During the development of the GV2 Series Control Panels, some version numbers were skipped. The following version numbers were not released.

RADXUSR1 v1.05
 RADXUSR2 v1.04
 RADXPNTS v1.05
 RADXSKED v1.03
 RADXAXS v1.05

Refer to the *D9412GV2/D7412GV2 Program Entry Guide* (P/N: F01U003636) for details on the new programming prompts.



Use Remote Programming Software (RPS) version 3.7.160 or above with this software version.

To acquire an update for your D5200 Programmer, call the Bosch Security Systems Handler Update System, toll-free, at (800) 657-4584. Make a separate phone call for each handler.

Refer to *Section 10 Updating Handlers* in the *D5200 Programming Manual* (P/N: 74-06176-000-B) for details on updating handlers.

2.0 Corrections and Changes

2.1 Version 7.03

- Changes allow Custom Functions to operate correctly in the Function List when **CC# Menu Lock** is set to **Yes** on the D1260 and D1260B Keypads.
- Corrections disassociate the **L# Display Revision** authority level from the Service Menu on the D1260 and D1260B Keypads.
- Corrections ensure that the authority level permissions of each **L# Custom Function ###** are strictly associated with the correct Custom Function number.
- If **Expanded Test Report** is set to **Yes**, Summary Fire Supervision, Summary Fire Fault, Summary Control Point Fault and Summary Point Device are now included when a test report is sent using COMMAND 41 or a sked.



- Corrections enhance the reliability and performance of RPS network connection. These corrections also decrease the delay in reporting a break in the Ethernet connection to the control panel's Network Interface Module within the time limits required by UL.
- For UL 1610 Line Security (formerly Grade AA) Intrusion System installations and for UL 864 Commercial Fire installations, use the parameters shown in *Table 2* when configuring the Heartbeat Poll. For additional details, refer to *Programming Path Numbers and IP Addresses for Enhanced Communications* in the *D9412GV2/D7412GV2 Program Entry Guide* (P/N: F01U003636).



The recommended settings in *Table 2* (Poll Rate of 75) enable the control panel to annunciate locally, within 200 seconds, any break in the network communication path.

Table 2: Parameters for Heartbeat Poll Configuration

Number of IP Paths	Poll Rate (sec)	ACK Wait Time (sec)	Number of Retries
1	30	6	2 to 19
1	30	8	2 to 12
1	30	10	2 to 8
1	30	12	2 to 5
1	30	14	2 to 3
1	60	6	2 to 14
1	60	8	2 to 8
1	60	10	2 to 5
1	60	12	2
1	75*	10*	3*
1	90	6	2 to 9
1	90	8	2 to 4
1	90	10	2
1	120	6	2 to 4
	145	5	2
2	75*	8*	3*
3	75*	6*	3*
4	75*	5*	3*

* Recommended settings for the corresponding number of IP paths.

- When the control panel disconnects from an RPS session using the network and the “Reset Panel” checkbox is set, the control panel now logs a Remote Reset event instead of a Reboot Event.
- Corrections now prevent the D9412GV2 and D7412GV2 Control Panels from performing a watchdog reset when an area is armed with more than 75 manually bypassed points or has more than 75 force bypassed points.
- Corrections now prevent the D9412GV2 and D7412GV2 Control Panels from performing a watchdog reset when an area with **A# Area Type** set to **Shared** is individually armed. Shared areas should not be individually armed or disarmed.
- Corrections now prevent a duress passcode from being accepted by a keypad currently in an area that has **A# Duress Enable** set to **No**. If the Duress feature is used, **A# Duress Enable** should be set to **Yes** for all areas.
- The alternate function of Area 6 Silent Alarm Relay parameter was removed. To enable Fire Trouble Resound support, use **GV2AUX→MISCELLANEOUS→Fire Trouble Resound**.
- The alternate function of Area 5 Silent Alarm Relay parameter was removed. The Ground Fault detection feature is solely enabled by closing Switch S4 on the D9412GV2 and D7412GV2 Control Panels.
- Changes now suppress the ALARM SILENCED message when a user attempts to silence a Ring Until Restored fire bell. A fire alarm generated by a point with the Ring Until Restored (**P# Ring Til Rst**) feature set to **Yes** will sustain the fire bell until the sensor is restored.
- Corrections ensure that acknowledged Silent Alarms scroll correctly on the idle text displays on the D1260 and D1260B Keypads.
- Corrections now allow a user's token, with **L# Disarm Level** set to **I**, to disarm the interior of all areas within the scope of the keypad programmed at **D# CC# Scope**. The keypad programmed at **D# CC# Scope** must have **CC# Passcode Follows Scope** set to **Yes** to disarm the interior of all areas within scope.

- Corrections now allow the panel-wide Communications Failure Relay output to activate when events in Route Groups 2 through 4 do not reach the central station. Previously this relay output activated only on a communication failure for Route Group 1.

2.2 Version 7.02

- The Phone Line Supervision feature has improved accuracy in detecting the phone line.
- The Modem IIIa² product ID is changed to the same ID as the G Series control panels, allowing compatibility with non-Bosch central station receivers.

2.3 Version 7.01

The following are corrections and changes made since Version 6.60 in the G Series Control Panels.

- The GV2 Series Control Panels have the same response to low AC voltage as to an AC failure.
- If the control panel battery is detected as missing, the Walk Test function skips the Battery Test.
- Several system stability issues are fixed to prevent erroneous Parameter Checksum Failures.
- The Service Walk Test on the D7412GV2 and D7212GV2 now shows the correct maximum number of points in the system.
- The Telephone Ground Start circuitry and associated programming prompts are removed from the GV2 Series Control Panels.
- The GV2 Series Control Panels require the D6500 receiver to have a D6511 MPU card at version 1.06 or above for maximum communication efficiency.
- The Extend Close (COMMAND 51) feature was modified to prevent the new Close Window time from setting to a value earlier than the current time.
- When disarming an area with Two Man Rule enabled, the keypad waits for the time equal to the exit delay for the area. If the second passcode is not entered before the prompt times out, then the rule resets and waits for the first passcode again.

- Several changes in this release prevent local alarm events from being sent intermittently to the central station. All local alarm events should now remain local.

3.0 New Features

3.1 Version 7.01

3.1.1 D1260 Keypad Enhancements

The D1260 Keypad **must have** firmware version 1.03 or above to operate with the GV2 Series Control Panels. An update kit (P/N: R19-D1260-0103) is available from Customer Service: (800) 289-0096.

Custom Function Enhancements: The custom functions now support the soft keys (the eight unmarked keys around the display) on the D1260 Keypad. This change makes the operation of custom functions on D1260 Keypad easier to program.

D1260 Keypads with firmware version 1.03 or above do not need to check the control panel firmware revision when communicating with GV2 Series Control Panels; therefore, the Display Revision (COMMAND 59) keypad (command center) function can be password protected.

3.1.2 New Firmware Features:

Two Man Rule: Two Man Rule requires two unique passcodes to be entered at the same keypad to disarm an area. Without the second passcode, the system denies entry. Two Man Rule requires the presence of two people at opening, providing added security.

Early Ambush: Early Ambush requires two passcode entries on the same keypad or on two separate keypads located in the same area. Enter the same passcode twice or enter two unique passcodes, depending upon the configuration. The first entry disarms the area and the second entry stops a timer programmed to send a duress event. If the second entry does not occur within the preset time, the system generates a duress event. Early Ambush allows users to inspect the premises and use the system to confirm that the area is safe to enter, providing added security.

Easy Exit Control:

The GV2 Series Control Panels change from one armed state to another armed state without disarming. For example, if you change the state from Master Arm to Perimeter Arm, the control panel complies and reports the change. Easy Exit Control reduces the number of keystrokes and simplifies system operation.

Passcode-controlled Menus: The system prompts a user to enter a passcode before viewing the keypad function list menu. The system shows the user the menu options allowed according to the user's authority level. Passcode-controlled menus simplify system operation by providing a user with unique and pertinent options and information. This feature is not intended for use on D1256 Fire Keypads.

Passcode Follows Scope: Use Passcode Follows Scope to restrict passcode arming and disarming only to the keypad's immediate local area. Passcode Follows Scope simplifies the arming and disarming procedure without limiting any other keypad command capabilities.

Invisible Walk Test: A function list menu item allows the user to test invisible interior- or perimeter-controlled and non-controlled (24-hr) points within the scope of the keypad without sending a report to the central station.

Door Activated Custom Function: A custom function activates when user credentials are presented to the reader of a D9210B Access Control Interface Module. A custom function behaves as though the user performed a function at the keypad associated with the door controller. This feature is available only on the D9412GV2 and D7412GV2.

Latest Close Time: The Extend Close (COMMAND 51) function is enhanced with a programmable latest closing time.

4.0 Upgrading to a GV2 Series Control Panel

Remote Programming Software (RPS) version 3.7.160 or above is required to upgrade an existing G Series Control Panel installation to a GV2 Series Control Panel. Because the GV2MAIN and GV2AUX handlers cannot read the configuration data from a G Series Control Panel, using RPS is the only method available to convert an account's existing panel type to a D9412GV2 or D7412GV2.

Refer to the RPS help files for the specific control panel for additional information on control panel conversion. In the RPS help file, select:

Panel Specific Information→9000 Series Control/Communicators→Communicating with 9000 Series Panels→Upgrading a Panel Type

Hardware Enhancements

- The control panel has an SDI bus quick-connect terminal (Molex® connector) next to the S1 reset switch. This connector provides an easy way to connect an SDI device to the SDI bus without disconnecting the wires on SDI Terminals 29 through 32. To order SDI wiring harnesses, use the following part numbers: Molex to Molex (P/N: C321) and Molex to terminal (P/N: PKWH).



This SDI terminal is **not compatible** with the D5200 Programmer.

- Two new posts next to the on-board telephone jack allow easy connection of a butt set or telephone for troubleshooting purposes. The posts are labeled TIP and RING.



The telephone line supervision time might be affected when a butt set or telephone is connected to the telephone terminal posts.

- On-board Relays B (Terminal 7, labeled Alt Alarm) and C (Terminal 8, labeled SW Aux) are now installed in the factory. No supplemental installation or purchase is necessary to prepare these terminals for use.
- The battery backed-up RAM now has a Super-Cap installed. The Super-Cap maintains power for up to 30 minutes to the control panel's memory when replacing the lithium battery. In earlier G Series Control Panels, if the coin battery was removed and the control panel was powered down, all configuration was lost. This enhancement allows the control panel to retain its configuration during necessary battery replacement.
- The D928 line monitor senses trouble if voltage on the line falls to 5.0 to 7.0 VDC without a corresponding value of at least 13 mA of current.
- The GV2 Series Control Panels now have integrated watchdog supervision. The D928 Dual Phone Line Switcher is no longer needed, but is still fully supported.

5.0 Known Issues

- When a faulted local point is force armed, the central station receives a Forced Close Report for that point. In the current version, the control panel does not send Forced Close Reports for faulted local points.

In addition, if both a local and a non-local point are faulted and force armed, the control panel does not send Forced Armed, Forced Point, or Forced Close Reports for the non-local point.



A point is local if it is configured as:

Local While Armed = Yes

Local While Disarmed = Yes

- On the D1255, View Area Status does not show the custom area status text programmed in the program record sheet. Instead, it shows the default area status text.
- On the D1260 and D1260B Keypads, the Setup?> menu under the Service Menu (99 + ENTER), is currently unavailable. The default values for the Bright Dim mode are Bright = 10 and Dim = 3.
- In the D9412GV2/D7412GV2 Program Entry Guide (P/N: F01U003636), the Early Ambush feature is described as working only when disarming from Master Armed. This feature actually works with all armed states. Bosch Security Systems recommends using the Early Ambush disarming feature in Master Armed areas.
- When numerous devices are connected to the SDI bus, the performance of automation applications and keypads is slower than in previous G Series control panels. The performance will be improved in a future revision.
- When a Status Report is sent through Netcom to a central station receiver or is printed out through a D9131B printer module, some of the details are erroneously omitted.
- On the D1260 and D1260B Keypads, when the Sensor Reset command (COMMAND 47) is executed, Call for Service appears erroneously on the display for a brief time. This effect also occurs when the control panel reboots.
- The Anti-Replay feature is intended for use with only one IP reporting path. Do not set **Enable Anti-Replay to Yes** if two or more IP reporting paths are used.
- When a Route Group is configured with an IP destination in the primary path and a telephone number in the backup path, a break in the Network Link Integrity does not annunciate locally. To avoid this situation, do one of the following:
 - Exchange the telephone and IP reporting destinations, or
 - Use only telephone numbers.



For UL 864 compliance, a break in a communication path must be detected within 200 seconds.

- When you intend to use the Easy Exit feature and the Open/Close reports feature is needed, review the settings of the following prompts:
A# Area O/C
L# Area O/C
A# Perimeter O/C
L# Perimeter O/C
Failure to fully enable Open and Close reports for all arming states might result in missing reports.
- The *D9412GV2/D7412GV2 Operation and Installation Guide* (P/N: F01U003641B) has an incorrect description for *Item 7 in Figure 32* and *Item 7 in Figure 33*. The description for both figures should be: **S3, Point 8 EOL selection**.
- The *Test Reports* section on page 17 in the *D9412GV2/D7412GV2 Program Entry Guide* (P/N: F01U003636C) states erroneously that all Test Report events in *Table 11* are included in a Status Report. The Status Report actually contains the following information: S: Alarm, S: Trouble, S: Open, S: Close, S: Perimeter Instant, and S: Perimeter Delay.
- The *Test Reports* section on page 17 in the *D9412GV2/D7412GV2 Program Entry Guide* (P/N: F01U003636C) states erroneously that all diagnostic events in *Table 12* are included in an Expanded Test Report. The Expanded Test Report contains the following information: SDI Device Failures, Phone Line Failures, AC Failures, Battery Troubles, and Route Group Failures. In addition, the Expanded Test Report includes Summary Fire Supervisory, Summary Fire Fault, Summary Controlled Point Fault, and Summary Point Device Fault conditions.

- The Time Sync feature used to update the control panel's internal calendar clock automatically can cause intermittent erroneous skipping or duplication of skeds. The Time Sync feature uses an enhanced communication path and can be enabled or disabled only at the D6600 Receiver.
- When the control panel is configured to send events to a numeric pager, it erroneously appends an extra zero digit to the end of the message.
- Failure to program the RPS telephone number results in a BAD CALL TO RPS trouble event sent to the central station when the log threshold is reached.
- If the event log threshold is reached and the RPS telephone number is not programmed, the Event Log Threshold is erroneously logged twice.
- If the control panel firmware version is 7.03 or older and the RPS version is 5.2.0 or newer, the prompts should remain at the indicated settings shown in *Table 3*.
- When executing [COMMAND] [1] on a D1260 or D1260B Keypad that has access to multiple areas, the Check Area: ##### message erroneously shows all areas with faulted or bypassed points instead of showing only the area to be armed.
- When communication between the control panel and RPS is handled through a D5360 Local Programming Interface using direct connect, intermittent errors can cause the programming session to exceed the maximum retry count. This problem is limited to the direct connect method, and occurs only when RPS sends a configuration to the control panel. For a work-around, refer to the *RPS Release Notes for Version 5.2.0* (P/N: 39837T). If the connection problem continues, disconnect all devices on the SDI bus for the duration of the programming session.

Table 3: Prompts and Settings for Version 7.03 and Older Firmware with Version 5.2.0 and Newer RPS

Path	Prompt	Setting
GV2→COMMAND CENTER→Command Center Assignments→	CC# <i>Idle Scroll Lock</i>	No ¹
RADXPNTS→POINT INDEX→	P# <i>Type</i>	0 to 9 ²
GV2AUX→MISCELLANEOUS→	Fire <i>Summary Sustain</i>	0 ¹
¹ Default setting		
² Do not use 11 (Auxiliary AC Supervision).		

