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2. Introduction

Premier Elite Firmware has undergone some major changes. Focussed mainly on feature changes requested by our customers, fixing known bugs, and adding additional functionality, this document details the major changes between V2 & V3 firmware.

3. Bug Fixes

Over 60 minor "Bugs" have been fixed during Internal Testing; the majority of these were never seen in the field. Some of the Improvements listed below may have been made following the reporting of a "Bug" or the general operation and function of the panel.

4. New Premier Elite Speech Module

Hardware Requirements

V3 sees support for the new Premier Elite Speech Module on all models. This support is only available on factory produced V3 panels which have a DTMF decoder chip installed.

A Premier Elite COM2400 digital communicator is required to enable use of the Speech Module.

Please see INS656 Premier Elite Speech Module installation instructions for full details of the DTMF chip location, identification and full programming instructions.

Speech Module Key features

- Plugs onto the Expansion port
  - Cannot be used with any other device plugged onto the expansion port.
- Supports four 10 second messages
- Simple user acknowledgment of messages using the # key on the receiving telephone

5. New Premier Elite ComPort +

The Premier Elite ComPort + adds an additional serial communications port (Com 3) to Premier Elite control panels (firmware version V3 and above). This expansion PCB simply converts the existing communications connector into a serial communications port, by plugging directly into the on-board communications connector.

Note: Premier Elite 640 already has Com 3 so this is not applicable.

6. New Features & Functions

Several new features and functions have been added in V3. Some will require programming some are just a better way of doing things. In the main these are a result of requests from our customers.

Language Sets

Premier Elite panels contain multiple languages. To allow for the addition of new features and functions it has been necessary to reduce the number of languages available in each language set.

<table>
<thead>
<tr>
<th>V2 Firmware</th>
<th>V2 Firmware</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/24/48/88/168</td>
<td>640</td>
</tr>
<tr>
<td>LS1</td>
<td>LS2</td>
</tr>
<tr>
<td>English (UK), English</td>
<td>English (UK), English</td>
</tr>
<tr>
<td>Swedish, French</td>
<td>Spanish, Italian</td>
</tr>
<tr>
<td>Dutch, Danish</td>
<td>Polish, Hungarian</td>
</tr>
<tr>
<td>Norwegian, Finnish</td>
<td>Portuguese, Greek</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Country Defaults

Country Defaults are used to load a specific set of default values for numerous settings on the control panel. This minimises the amount of programming required to achieve the requirements which differ in many countries.

V3 sees the addition of specific defaults for Netherlands (031) & Belgium (032).

<table>
<thead>
<tr>
<th>Country</th>
<th>Code</th>
<th>Defaults</th>
</tr>
</thead>
<tbody>
<tr>
<td>Export</td>
<td>000</td>
<td>UK</td>
</tr>
<tr>
<td>Russia</td>
<td>007</td>
<td>UK</td>
</tr>
<tr>
<td>South Africa</td>
<td>027</td>
<td>South Africa</td>
</tr>
<tr>
<td>Netherlands</td>
<td>031</td>
<td>Netherlands</td>
</tr>
<tr>
<td>Belgium</td>
<td>032</td>
<td>Belgium</td>
</tr>
<tr>
<td>France</td>
<td>033</td>
<td>France</td>
</tr>
<tr>
<td>Spain</td>
<td>034</td>
<td>UK</td>
</tr>
<tr>
<td>Hungary</td>
<td>036</td>
<td>Hungary</td>
</tr>
<tr>
<td>Italy</td>
<td>039</td>
<td>UK</td>
</tr>
<tr>
<td>Czech</td>
<td>042</td>
<td>UK</td>
</tr>
<tr>
<td>UK</td>
<td>044</td>
<td>UK</td>
</tr>
</tbody>
</table>

7. Panel Start Up

Ask for panel language and country code at first power up

Changes have been made to the start-up menus to allow selection of the control panel language and loading specific country defaults. The procedures are detailed below. For UK English LS1 the default language is English UK and the country defaults loaded will be 044.

LS1 English UK

Power up the panel as normal, and enter the default engineer's code 1234. The panel will show the following:

Example 1

Do you want to Set Language?  
Pressing No/Yes will show Engineer Utils Confirm Devices

You can now proceed as you did previously with V2 control panels

Example 2

Do you want to Set Language?  
Pressing Yes/No will show Language English-UK

If you now press Yes/No you will see Engineer Utils Confirm Devices and can proceed as you did previously with V2 panels.
Changing the Language

Power up the panel as normal, and enter the default engineer’s code 1234. The panel will show the following:

Do you want to Set Language? Press Yes/✓ | Language English-UK | Press No/✗ Language > Norsk

use the $ key to select the desired language and press Yes/✓ the panel will immediately change to the chosen language.

Loading Country Defaults

Following on from above, if you have changed the language to anything except English UK you will now be prompted to select a country code to load the chosen defaults.

Press Country Code > 031 using the keypad numbers enter the desired country code, or use the $ key.

Press Yes/✓ the panel will now load defaults and the following will be shown

Once the defaults have loaded, you will be presented with one of the following. This depends on the country code selected.

You may now continue as you did with V 2 panels.

8. Zones

Attributes 1 for Latch Key & Moment Key

Monitor Only when Armed

A new attribute for Latch and Moment key is added which will control the way the zone works in armed mode. When this attribute is ON, AND the zone is armed (All its areas), then any activation / deactivation from this zone will be logged and reported to ARC. There will be no keypad display or alarm. This is similar to the current Monitor only attribute, but the new attribute works only in armed mode. Also the “Max log Messages 3” option limit which is found in system configuration options is not obeyed for these events.

Custom attributes for Seismic Sensors*

- Seismic Zone*
- Seismic Reference Attribute*
- Seismic Twin Attribute*
- Seismic Debug Attribute*

* These new features & functions are reserved for future use.
9. Areas

Options

39 No Arming Before .BCD
This option prevents Areas arming until other associated Areas selected in the option are armed.

For example in a system with 4 Area's (A,B,C, and D) do not allow Arming of A until B, C and D are armed. In this case D could be a Safe or Vault Area, C could be a strong room, B could be a reception and Area A the main entry/exit route.

<table>
<thead>
<tr>
<th>Area A</th>
<th>Area B</th>
<th>Area C</th>
<th>Area D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entry/Exit</td>
<td>Reception Area</td>
<td>Strong Room</td>
<td>Vault</td>
</tr>
<tr>
<td>Can only be armed if B, C &amp; D are Armed</td>
<td>Must be armed to allow Area A to be armed</td>
<td>Must be armed to allow Area A to be armed</td>
<td>Must be armed to allow Area A to be armed</td>
</tr>
</tbody>
</table>

A message "Arming Prevented" with the associated areas displayed and an error beep will be presented to the User if they try and arm an area that is restricted.

10. Global Options

Timers*

Seismic Timer 1*

Seismic Timer 2*

Seismic Timer 3*

*These Timers are reserved for future use.

Configuration Options

Aux Input Fault or Tamper
Global option 54 Auxiliary Input = Fault has been added to the menu. A new System Output no 63 (see page 7) has been added for Aux Fault.

ON = When ON this option will report and log a Aux Fault from the Aux input.
Off = When OFF this option will log and report a Tamper from the Aux input.

No Bell Squawk on Part Arm
Global option 55 No Squawk on Part Arm has been added.

On = When on the bell will not squawk when the system is part armed.
Off = When off the bell will squawk when the system is part armed

Display Open Zones
Global option 56 Display Open Zones

On = Open or active zones will be displayed on the relevant keypads.
Off = Open or active zones will not be displayed on the relevant keypads.

Enable Battery Replacement Mode
Global option 57 Enable Battery Replacement Mode (see page 8 for details)

On = User 01 with the Master User type will have access to a new option in the user menu "Start Battery Replacement*.
Off = User 01 with the Master User type will not have access to a new option in the user menu "Start Battery Replacement*.

Remote Arming Instant
Global option 58 Remote Arming Instant

On = Remote arming from a PC through Wintex, or mobile apps will be instant.
Off = Remote arming will be timed and use the Exit Time programmed for the area being armed.
1. Holiday Dates

Increased from 8 to 24
On all Elite panels 24 holiday dates are now available.

11. Outputs

Digi Channels

Increased to 16 for Extended Fast Format reporting
On all Elite panels, 16 channel Extended Fast Format reporting is now available. This caters for the requirements of PD6662 (UK) when using Fast Format as the reporting protocol, and additional reporting options are required.

Panel defaults are as follows.

<table>
<thead>
<tr>
<th>Channel</th>
<th>All Areas</th>
<th>Fire Alarm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel 2</td>
<td>All Areas</td>
<td>PA Alarm</td>
</tr>
<tr>
<td>Channel 3</td>
<td>All Areas</td>
<td>Alarm</td>
</tr>
<tr>
<td>Channel 4</td>
<td>All Areas</td>
<td>Armed</td>
</tr>
<tr>
<td>Channel 5</td>
<td>All Areas</td>
<td>Zones Locked Out</td>
</tr>
<tr>
<td>Channel 6</td>
<td>All Areas</td>
<td>Fault Present</td>
</tr>
<tr>
<td>Channel 7</td>
<td>All Areas</td>
<td>Confirmed Alarm</td>
</tr>
<tr>
<td>Channel 8</td>
<td>All Areas</td>
<td>Abort</td>
</tr>
<tr>
<td>Channel 9</td>
<td>All Areas</td>
<td>Tamper Alarm</td>
</tr>
<tr>
<td>Channel 10</td>
<td>System</td>
<td>System Mains Power Off</td>
</tr>
<tr>
<td>Channel 12</td>
<td>N/A</td>
<td>Never Active</td>
</tr>
<tr>
<td>Channel 13</td>
<td>N/A</td>
<td>Never Active</td>
</tr>
<tr>
<td>Channel 14</td>
<td>N/A</td>
<td>Never Active</td>
</tr>
<tr>
<td>Channel 15</td>
<td>N/A</td>
<td>Never Active</td>
</tr>
<tr>
<td>Channel 16</td>
<td>N/A</td>
<td>Never Active</td>
</tr>
</tbody>
</table>

Group Type Outputs

System

Auxiliary Fault
A new System Output no 63 has been added for Aux Fault. This output will be active if Global Config option 54 (see page 6) Auxiliary Input = Fault is ON

Poll Timer
This output is linked to the “Poll IP Every” timer found in Global Options/Timers. If the “Poll IP Every” timer is set for a non zero value, this output will activate for 10 seconds and then reset. The cycle will repeat every time the timer expires.

If multiple com ports are configured as “ComIP” the timer and output will follow every com port. It will activate for 10s every time any ComIP polls.

Area

Seismic Alarm*
*Reserved for future use

12. Comms

ARC's

Alarm Receiving Centres increased to 5
All Elite panels now support 5 ARC's which can be configured individually. An increase in the number of ARC's allows for additional reporting options to be used on a system where a combination of response authorities may be used, or in the case of the Speech Module, (see page 8) where multiple contact numbers are required for a response. When dial all numbers is enabled, all numbers for all ARC's will be dialled regardless of acknowledgments.

Protocol Options 2

Use ComPort 1
Mapping a Com Port to a particular ARC now enables multiple IP or serial devices to be used on the same system. For example it is now possible to use a ComIP for ARC 1 using push notifications with the Texecom mobile app, whilst also reporting to ARC2 via another device from the available list on Com Port 2.

Use ComPort 2
Mapping a Com Port to a particular ARC now enables multiple IP or serial I devices to be used on the same system. For example it is now possible to use a ComIP for ARC 1 using push notifications with the Texecom mobile app, whilst also reporting to ARC2 via another device from the available list on Com Port 2.
Use ComPort 3
Mapping a Com Port to a particular ARC now enables multiple IP or serial devices to be used on the same system. For example it is now possible to use a ComIP for ARC 1 using push notifications with the Texecom mobile app, whilst also reporting to ARC2 via another device from the available list on Com Port 3.

Fast Format/Speech Module Options
Channels 9 - 16 are added here for reporting and restoring, this is linked to the increase in digi channels to support extend fast format reporting (see page 7).

ComPort Options

ComPort 3 12/24/48/88 & 168
The onboard Digi pins can be enabled as ComPort 3 for programming off devices listed in the ComPort 3 dropdown menu. These are identical to Com Port 1 & 2.

To enable ComPort 3 a ComPort + adapter is required. This will plug into the digi pins and provide a molex serial interface to allow connection of the devices detailed in the dropdown menu.

Premier Elite 640 already has Com 3 so this is not applicable.

Expansion Port

Speech Module
Support is added to all Premier Elite control panels for the Premier Elite Speech Module. The module can be programmed to play four 10second messages. Messages are linked to channels 1 - 4 when the Speech Module is chosen as the protocol for ARC reporting. Only channels 1 - 4 may be used, and only reporting will occur. Restoring is not available when using the Speech Module. Users can acknowledge the call using the # key, however all numbers will be dialled regardless of acknowledgement providing dial all numbers is enabled.

Com-IP Details
May be used to configure multiple IP devices on the same system. See protocol options 2 on page 7.

Com 1
Programme the details for the device installed on Com Port 1.

Com 2
Programme the details for the device installed on Com Port 2.

Com 3
Programme the details for the device installed on Com Port 3.

13. Users

User Type

Prevent Unset
A new User Type has been added “Prevent Unset”.

When this user type is selected and is used to Arm a system or Area, it will not be possible for any other user to disarm the system.

Master User 01
Start Battery Replacement
If Global option 57 (see page 6) is ON then the following applies.

A new User Menu option “Start Battery Replacement” is available to a Master User at 01. This option is not available to any other user type or number.

- Start Battery Replacement allows the user to replace batteries in Ricochet enabled devices during a predetermined time window.
- The time window is fixed at 60 minutes and cannot be changed.
- When battery replacement is started tampers for all Ricochet enabled devices are disabled during the time window.
- Tampers from devices will be logged but not reported during the time window.
- Only areas authorised to the user may be selected for battery replacement.
- If the areas are armed during battery replacement the timer will be reset and tampers will be logged and reported.
- If the timer expires and devices are left open tampers will be logged and reported.

If Global option 57 (see page 6) is OFF then the “Start Battery Replacement” option is not shown to the user.
14. Ricochet Changes

Ricochet device behaviour

This new feature is linked to the Signalling Test option in Engineer Utilities. Please see page 10 for full details.

Low signal security

A new option is now available in the Ricochet Diagnostics menu in Engineer Utilities. The keypad can display basic signal security information for each device on an expander. Each device will show H High, M Medium or L Low signal security. The system is updated live and therefore it is possible to determine changes by moving devices, or by adding more to the system. The information displayed replicates what is seen when using Ricochet Monitor.

<table>
<thead>
<tr>
<th>Action</th>
<th>Keypad Display</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enter the engineer code</td>
<td>YES to Select: Zone Setup</td>
<td></td>
</tr>
<tr>
<td>Press 3 for Engineer Utilities</td>
<td>YES to Select: Engineer Utils</td>
<td></td>
</tr>
<tr>
<td>Scroll 3 to Ricochet Diagnostics</td>
<td>Engineer Utils Ricochet Diag</td>
<td></td>
</tr>
<tr>
<td>Press 1/4</td>
<td>Network 1, XP 01 Devices: 08</td>
<td>The network, expander and number of devices learnt to the expander will be shown. Use the 3 key to select the expander you wish to view.</td>
</tr>
<tr>
<td>Press 1/2</td>
<td>..........</td>
<td>No devices learnt to the expander. 8 spaces available.</td>
</tr>
</tbody>
</table>

In the examples shown an 8XP-W is used. The more devices you have the better the information should be.

Example 2 showing M x 2 and L x 6 is extreme and is used only to show the available information.

The final example of all H indicates well designed system where all devices can see other devices and have alternative routes to the expander.

2 devices out of eight learnt showing Low signal security. Adding more devices will improve the reading, moving them will not.

8 devices on the system, 2 show Medium signal security. 6 showing Low signal security. Moving the devices may improve the system.

8 Devices learnt to the system, all devices showing High signal security, the system is operating perfectly.

Eight devices all with H signal security shown in Ricochet Monitor
15. Engineer Utilities

Signalling Test
This new feature allows all of the communication paths available to be tested to ensure that they are signalling correctly. During the test sounders will be disabled, but signalling to ARC’s or other devices will occur allowing a system to be checked even in an occupied building. This is similar to the current method of using the Engineer Alarm attribute for zones, but is now a much simpler procedure as the function is contained within one menu.

During the test only devices selected will cause an alarm activation.

Ricochet devices
The operation of Ricochet devices selected for the signalling test will be altered for the duration of the test. With the exception of Ricochet sounders all devices will be changed to Always Awake to make testing easier. Once the test is complete and the system is disarmed all devices will be put back to their originally programmed state.

To use the Signalling Test proceed as follows:

<table>
<thead>
<tr>
<th>Action</th>
<th>Keypad Display</th>
<th>Notes</th>
</tr>
</thead>
</table>
| Enter the engineer code | YES to Select:-  
Zone Setup |       |
| Press  3 for Engineer Utilities | YES to Select:-  
Engineer Util |       |
| Scroll  3 to Signalling Test | Engineer Util  
Signalling test |       |
| Press  3/4 | Select Areas >  
A.........<......... | Use the number keys to toggle Areas On or Off |
| Press  3/4 | Select Zones  
Zone 001 | Use the  3 key or enter the Zone number to select the zone required. Use the  3/4 key to enable the zone in the Signalling Test |
|          | Select Zones  
Zone 001 * | A * will be shown on the screen indicating the zone is selected and can be used for the signalling test. |
|          | Log Off Engineer and Arm System? | • Pressing  3/4 will arm the system as an engineer. The engineer’s code can then be used to disarm the system following the test.  
• If after a short time you do not press  3/4 or  3/4 the system will arm as an engineer and may be disarmed with the engineer’s code following the test.  
• Pressing  3/4 will log the engineer off and arm the system as the master user. The signalling test WILL NOT be able to be performed, and a user will then be required to disarm the system following the test. |
|          | The keypad will scroll through the screens shown when engineer armed. | Once the test is complete enter the code required to disarm the system. Any zones selected for the test will be reinstated into the system. Any Ricochet devices enabled for the test will be returned to their programmed mode of operation. |

Alarm Engineer Working On Site.  
Area FULL ARMED>  
A...............  
13:15.59 Mon 27
16. Simple Protocol Changes

Zone and Area Text

In V3 an extended command set has been added to the Simple Protocol allowing the Zone & Area text to be both read and written. A maximum of two zones can be read at any time. Only zones available on the panel may be read. Asking for a zone not available will cause an error message.

Mobile App’s Zone & Area Text

On V3 panels when used with Texecom’s Mobile Apps, Zone and Area text can be read and written to the panel from within the App. Any changes to the text in the App will be updated in the control panel.

17. Event Reporting Code

Auxiliary Fault

New event reporting codes have been added to SIA and Contact ID as shown.

Battery Replacement

New event reporting codes have been added to SIA and Contact ID as shown.

18. Wintex Changes

Local and remote profiles

It is now possible to carry out a check from Wintex to detect difference between the stored profile, and the panel you are connected too. The feature comes with some limitations and is checked on a page by page basis.

The feature can be found in the Communications drop down menu, and is titled “Compare Panel Programming Data”.

![Wintex Compare Panel Programming Data](image-url)
Limitations
When you are connected to the panel, selecting this option will start a cycle of checks for the data on each page of Wintex and compare it with programmed values in the control panel. The cycle check will stop when a mismatch in data is found.

For example, if a mismatch is found for any of the programmed entries shown on the Zones page, the subsequent pages will not be checked. The mismatch on the zones page should be corrected and the comparison started again.

The comparison check will not detail what is different; you should check which is correct. If the panel is correct you should receive data for that page. If Wintex is correct you should send the page data to the control panel.

Items NOT compared
Items not compared when using this function are:

- Zone, Area & User Text (not possible to compare as they are free text boxes)
- ARC4 & ARC5, (these will be added later)
- Radioplus configuration

Example mismatch message
![Example mismatch message](image)

Example all OK message
![Example all OK message](image)

Zone page changes

Custom Attributes*

![Custom Attributes](image)

*Seismic Attributes Reserved for future use

Area page changes

Area Options 39 No Arming Before see page 6

![Area Options](image)
Global Options

Timers*

Config Options see page 6

*Seismic Timers Reserved for future use

Holiday Dates see page 7
Premier Elite V2.11 to V3.00 Changes Guide

**Outputs**

**16 Digi Channels see page 7**

- Digi Channels
  - 1: Area A B C D E F G H I J K L M N O P Alarm
  - 2: Area A B C D E F G H I J K L M N O P Alarm
  - 3: Area A B C D E F G H I J K L M N O P Alarm
  - 4: Area A B C D E F G H I J K L M N O P Alarm
  - 5: Area A B C D E F G H I J K L M N O P Alarm
  - 6: Area A B C D E F G H I J K L M N O P Alarm
  - 7: Area A B C D E F G H I J K L M N O P Alarm
  - 8: Area A B C D E F G H I J K L M N O P Alarm
  - 9: Area A B C D E F G H I J K L M N O P Alarm
  - 10: Area A B C D E F G H I J K L M N O P Alarm
  - 11: Area A B C D E F G H I J K L M N O P Alarm
  - 12: Area A B C D E F G H I J K L M N O P Alarm
  - 13: Area A B C D E F G H I J K L M N O P Alarm
  - 14: Area A B C D E F G H I J K L M N O P Alarm
  - 15: Area A B C D E F G H I J K L M N O P Alarm
  - 16: Area A B C D E F G H I J K L M N O P Alarm

**System outputs see page 7**

- WD Test Active
- PSU Main Fault
- Com 1 Power On
- Com 2 Power On
- Com 3 Power On
- IP Path Fault
- Low Fob Battery
- PS Failure
- Charger Fault
- GSM Tamper
- Auxiliary Fault
- Poll Timer

**Area Outputs**

- All Armed
- Time Arm Disabled
- Armed / Alarm
- Intruder Alarm
- Speaker Mute
- Full Armed Exit
- Detector Fault
- Detector Masked
- Fault Present
- LED Control
- PUI Armed Entry
- Fire Sounder
- PA Confirmed
- Confirmed Alarm
- Seismic Alarm

*Seismic Alarm reserved for future use*

**Comms**

**ARC's see page 7**

- Protocol Options
  - Use Area Accounts
  - Use SIA/UCP
  - Enable Radio-Pad
  - Enable GSM
  - Activate AV
  - Use GSM First
  - Connect Via IP
  - Send SIA Text

- Protocol Options 2
  - Use Comfort 1
  - Use Comfort 2

- Protocol Options 3
  - Use Comfort 3

**Report for**

- Area A
- Area E
- Area I
- Area M
- Area B
- Area F
- Area J
- Area N
- Area C
- Area G
- Area K
- Area O
- Area D
- Area H
- Area P

**Report on Channels**

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

**Fast Format/Speech Module Options**

- Event Reporting Codes
Com Port Options see page 8

Users

User Type see page 8

19. Language Changes

- Slovak Updated
- Danish Updated
- Norwegian Country Defaults
- Portuguese Updated
- Spanish Updated
- Hungarian Updated
- Czech Updated
- Dutch Updated