



# Field Software Notice

FSN-0710-51-02  
July 12, 2010

To: **Users of 5100 ES, 51SL ES and Ascend ES Portable Radios**  
Subject: **Software Release**

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Platform: **5100 ES Portable**  
Protocol: **All**  
Version Release #: **6.12.4 (part number 039-5757-216)**  
PCC Version Release #: **2.14.10 (CD Kit Part Number: 023-9998-527-21410)**  
Express Code Updater: **CD Kit 023-9998-531-210**  
Supersedes Version#: **6.10.5**  
Effective Release: **12/10/09**

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<u>Revision Information:</u>	<u>Version</u>	<u>Part Number</u>
Corresponding PC Configure Version:	2.14.5 ⇔ 2.14.10	039-5754-225
Corresponding PC Tune Version:	3.0.21 (no change)	039-5697-222
Corresponding SMA Version:	1.2.7 (no change)	039-5730-202
Corresponding RFX Version:	1.0.15 (no change)	039-5769-204

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This field software notice serves to introduce EFJohnson's newest PC Configure programming software version 2.14.10 as a replacement for PC Configure version 2.14.5. PC Configure version 2.14.10 should be used with radios using application software code release 6.12.4 (Portables) and 6.12.5 (Mobiles). The purpose of this notice is to:

1. Convey the expanded usefulness of PC Configure allowing for backward compatibility.
2. Indicate that PC Configure version 2.14.5 is no longer available and therefore discontinued.
3. Illustrate new features originally introduced with the release of PC Configure 2.14.5.

Users with radios utilizing previous ES application code 6.10.5 (Portables) and 6.10.7 (Mobiles) or older should continue to use PC Configure version 2.12.7.

**How to tell if you have an ES radio:** There is a number 6 at the beginning of the application code. (For X application code, there is a number 4 at the beginning.) When you turn on a portable radio the first series of numbers on the display will be the application code (example 6.12.4). When you turn on a mobile radio the second series of numbers on the display will be the application code. (The first set of numbers will be the control head version.)

**How to obtain PC Configure:** Updates are free to customers that have either a PC Configure software subscription (recommended) or within 12 months of your previous PC Configure purchase.  
(Contact [techsupport@efji.com](mailto:techsupport@efji.com) to receive an updated version. Contact [orders@efji.com](mailto:orders@efji.com) to place an order.)

**Note to users with a combined fleet of ES and X platform radios:** The newest version of PC Configure can be used with the final released X platform application code 4.15.5; however, we recommend using a separate version of PC Configure (version 2.10.2) with X platform application code 4.15.5 to eliminate any potential confusion. There are developments and enhancements with the ES application that are visible in the new version of PC Configure that are not applicable or available to the X platform radios.

For Questions regarding this Field Software Notice please call EFJohnson at 1-800-328-3911, press option 3

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## New Features / Enhancements

### RADIO WIDE

- **Disable Radio Push To Talk if External Mic Attached (Portables only)**
  - Officers wearing radios on their belts with other equipment may inadvertently press the PTT when sitting. The ability to disable the radio PTT if an external mic is attached has been added.
    - Programmed and customized in PC Configure Radio Wide screen for all protocols
  
- **Disable LED with Backlight Off (Portables only)**
  - Independent of being in surveillance mode, this feature provides the ability to disable the Status LED on the 5100ES radio.
    - Programmed and customized in PC Configure Radio Wide screen for all protocols
  
- **Display Mode improvements (Portables and Mobiles)**
  - An enhanced Display mode has been added to the 5100ES standard display and the 5300ES Equipped with the Lightning Control Head. This mode supports a dual line display and longer length channel / Zone aliases. This is programmed on the Global tab in the Edit display options window, and has three options:
    - Zone
    - Zone event Messages
    - Zone and event messages
  - The Inhibit/Zone Channel Indicator checkbox has been moved from the Global page to the Display Mode Page. The checkbox has been disabled (grayed out) for the 5100ES
  
- **Lightning Control Head (Mobiles only)**
  - Zone Up / Down functionality - When Lightning Control Head is selected, the Up/Down buttons will be defaulted to the Nav Up and Nav down positions similar to the up/down rocker of the 5100.
    - Changing from this default is done in the PC Configure screen for Radio Wide function buttons.
  
- **Keypad Lockout toggle Switch (Portables only)**
  - This option includes the ABC switch when keypad lockout is enabled.
    - A new checkbox has been added to Keypad section of the Global page titled "Disable Toggle during Keypad Lockout" The default is OFF.
  
- **5300 Mobile Public Address support (Mobiles only)**
  - This feature adds control of a third party public address system
    - Programmed and customized in PC Configure Radio Wide screen for all protocols
  
- **Emergency Press and Hold (Portables and Mobiles)**
  - When enabled, the channel number on the right of the display shows the number of the selected channel, but the alphanumeric display will show the alias of the active channel – i.e., it will normally show the selected channel alias, but will change when a scanned call is received
    - Programmed on the PC Configure Global screen, second page

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## Trunking, SN/SZ

- **P25 Trunking, SN/SZ, P25 Conventional - Support 864 Talkgroups Per System ( Portables and Mobiles)**
  - For radios with 512 or now 864 you can only program 256 Talk Groups to a system. This feature extends this capability to allow all TG's to be programmed to a single system if desired. For PC Configure, The table descriptor for the following table entries has been modified to support up to 864 Talkgroups
    - 1. P25 Trunking Talkgroup
    - 2. P25 Trunking Announcement Group
    - 3. SN/SZ Talkgroup
    - 4. SN/SZ Announcement Group
    - 5. P25 Conventional Talkgroup

## CONVENTIONAL

- **P25 Talkgroup Lock (Portables and Mobiles)**
  - If enabled the radio will store the current active TG and use that TG for all channels of that system.
    - In PC Configure, a new function button and menu item has been added and is named "TG Lock"
- **P25 Talkgroup on Tx Display Option (Portables and Mobiles)**
  - This feature adds a Talkgroup display option for when the radio is transmitting
    - A new checkbox has been added to the Display Options section on the Conventional Radio Wide page under P25 TG on Rx titled "P25 TG on Tx". A TG Display Time timer box has been added with the same settings as the P25 TG on Rx timer (0.5 to 7 seconds).
- **P25 Emergency Talkgroup (Portables and Mobiles)**
  - This feature adds an Emergency Talkgroup for conventional systems. The talkgroup will be implemented similarly to what is currently done for SN/SZ and P25 Trunking will be used if the radio is in emergency mode. If emergency mode is canceled the active talkgroup will revert back
    - In PC Configure, an Emergency Group ID drop down box has been added to the Conventional Digital zone page and has been populated with the list of available Talkgroups. The default value should be "None / Tactical" and be set to 0xFFFF
- **P25 Talkgroup Busy Channel Lockout (Portables and Mobiles)**
  - The EFJohnson conventional system makes use of a session timer. After a call has been made, the system session timer is initiated. During this time no one is allowed to talk except for members of the active talkgroup. During session time the system will send out Long Termination Data Units to inform the radio of the current NAC/TG so that the subscriber can make busy decisions.
    - Programmed On the P25 Conventional Zone page, a new Busy Lockout type has been added called "Talkgroup"
- **Auto Scan ( Portables and Mobiles)**
  - EFJohnson now supports an Auto Scan option for SN/SZ and P25 Trunking. If the feature is enabled a scan will automatically begin for that particular channel.
    - For PC Configure, a checkbox labeled Auto Scan has been added to the Conventional Zone page. The default condition has been unchecked.

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- **Analog GE Star Signaling – Transmit (Portables and Mobiles)**
  - GE Star is an analog signaling format similar to that of MDC. It is used on legacy conventional systems.
    - For PC Configure, the addition of GE Star has been added on the Per System page in the ANI drop down selection. GE Star parameters have also been added to the conventional Signaling Settings selection.
  
- **Out of Range Indicator Enhancements (Portables and Mobiles)**
  - EFJohnson modified the OOR indicator behavior so that it is supported during scan.
    - A new per channel checkbox has been added to the Zone page titled “Out of Range Channel”. This must be checked to enable the feature.
    - An Out of Range section has been added to the Conventional Radio Wide page of PC Configure
    - An Out of Range section has been added to the Conventional Radio Wide page of PC Configure. - An Out of Range indication box has been added to the Out of Range section. The indication box contains the following options:
      - No Indication
      - Tone Only
      - Display Only
      - Tone & Display
    - The default setting for the Out of Range indication box will be “No Indication.”

## Multi-Net®

- **Multi-Net® PTT to answer Special Call (Multi-Net only, Portables and Mobiles)**
  - On the Multi-Net® Radio Wide page, a checkbox titled “Answer Special Calls with PTT” has been added. If the PC Configure Checkbox “Answer Special calls with PTT” is checked, the user can answer a special call by pressing the PTT, and press the Phone or Unit call button (or select the appropriate menu item).

## P25 Data and OTAP Modifications

- **P25 Conventional and Point to Point Protocol Data Enhancements (Portables and Mobiles)**
  - Packet Data mode updates have been made on the Radio to Fixed Network Equipment part of the interface.
    - This sets the default setting of the Packet Data mode on a per system Conventional basis on the Data page. All data attributes have been added to this screen.
  
- **P25 Conventional IP Based OTAP (Portables and Mobiles)**
  - This feature updates the current implementation of the P25 Conventional data for OTAP. This will require a data gateway to be used to route IP packets between our application (currently PC Configure) and IP25DR.
    - PC Configure screens have been added for OTAP Settings.

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