



# Field Service Bulletin

FSN-0509-53ES-01  
May 22, 2009

To: **Users of 5300 ES, 53SL ES and Ascend ES Mobile Radios**  
Subject: **Software Release**

Platform: **5300 ES Mobile**  
Protocol: **All**  
Version Release #: **6.10.5 (Part Number: 039-5759-210)**  
Supersedes Version#: **6.8.9**  
Effective Release: **05/04/09**  
Express Code Updater: **CD Kit 023-9998-533-208**

This is the first software release that is for our award-winning ES (series 6) radios only. This release is not to be used on Series 4 and earlier version radios.

<i>Minimum Requirements:</i>	<i>Version</i>	<i>Part Number</i>
Corresponding DSP Version:	4.16.0	Embedded in flash
Corresponding ROM Boot Version:	6.6	Embedded in ECU
Corresponding RAM Download Version:	6.2 (no change)	Embedded in PC Configure
Corresponding PC Configure Version:	2.10.2 ⇔ 2.12.6	039-5754-217
Corresponding PC Tune Version:	3.0.14 ⇔ 3.0.17	039-5697-220
Corresponding SMA Version:	1.2.7 (no change)	039-5730-202
Corresponding SEM Version:	3.4 (no change)	039-5711-205

## New Features / Enhancements

### ➤ Radio Wide:

#### **Lightning™ Control Head Support**

- Soft Menu Labels
  - Programmed and customized in PC Configure Radio Wide Screen
  - Scrollable thru 10 levels of button functions

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- Main menu + 5 additional menus available
- Portable-type icons on display
- Automatic software update
- Control head software will update at power up if radio application code has been updated

## **Lock Channel Indicator**

- 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

## **Radio Information Function**

- Radio Info function will now display the following in addition to current information:
  - SNDCP IP address provided by the P25 system...If not on a P25 system, displays “IP N/A”
  - The radio’s memory size for codeplug:
    - Memory 1.0 = 32K
    - Memory 2.0 = 64K

## **54 Channels / 16 Zones**

- Provides ability to change zones with the top selector and change zones with the up/down rocker switch
- Requires 864 Channel Option to be set with PC Issue
- Programming is required on the PC Configure™ Global screen, second page

## **Disabled Soft System Key Option**

- When enabled, P25/SN/SZ protected fields cannot be programmed unless Enhanced System Key (USB dongle) is attached to PC
- Factory option required

## **Enhanced System Key (ESK)**

- The ESK will now support up to 6 system keys for P25 Trunking and SMARTNET®/SmartZone systems®

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## ➤ **P25 Trunking:**

### **OTAP**

- Functionally equivalent to Conventional OTAP

### **Individual Talkgroup Security Settings**

- Enables Talkgroup security settings on the PC Configure P25 Trunking Talkgroup List to be overridden
- Allows customer to use multiple encryption keys on the same talkgroup
- Enabled and programmed on the PC Configure P25 Trunking Zone screen

### **Display Received Key ID**

- Enables display of the encryption Key ID or Key Alias (if programmed), when a secure call is received
- Programmed on the PC Configure Radio Wide page under “Display Options”

### **Site Lock Indicator**

- Available on 5100 ES and 5300 ES (with Lightning Control Head only)
- Not available on 5300ES with standard control head
- “L” in square box in upper left corner of display indicates when site lock is active

## ➤ **SN/SZ:**

### **Display Received Key ID**

- Enables display of the encryption Key ID or Key Alias (if programmed), when a secure call is received
- Programmed on the PC Configure Radio Wide page under “Display Options”

### **Site Lock Indicator**

- Available on 5100 ES and 5300 ES (with Lightning Control Head only)
- Not available on 5300ES with standard control head
- “L” in square box in upper left corner of display indicates when site lock is active

## ➤ **Conventional:**

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- Tone, Display or both can be selected
- Time interval programmable from 5 to 1280 seconds in 5 second increments
- Requires the repeater to transmit a P25 Data “Beacon” at regular intervals so the radio knows when it is out of range (currently only provided by EFJ infrastructure) Note: The NAC of the system must match the programmed NAC in the subscribers.
- Programmed on PC Configure Conventional Radio Wide screen

## **Talkgroup Scan**

- Enables scanning of P25 conventional talkgroups on a single channel
- Can be programmed to transmit on Active or Selected Talkgroup
- Scan types added to conventional System Scan List, Scan Mode menu in PCC conventional Per System screen
- Radio will decode analog transmissions on channel if channel is programmed for Mixed Mode operation

## **Automatic Registration (P25 Conventional - EFJ infrastructure only)**

- When enabled, the radio will register to a talkgroup whenever it changes sites, or comes back in range of a site
- Enables radio location to be tracked on a site by site basis, similar to trunking
- Requires programming on the PC Configure conventional Per System screen, second page – “EFJ Affiliation”

## **MDC1200 Inhibit / Uninhibit**

- Supports the MDC Inhibit and Uninhibit commands
- Inhibit checkbox on PCConfigure Conventional Per System page must be enabled

## **Disable Call Guard (PL)**

- Activating this feature causes the radio to ignore CTCSS/DCS in analog mode and NAC/TG in digital mode, enabling the user to hear all traffic on the frequency (differs from “Monitor” in that receive audio is muted unless the frequency is active)

## **Display Received Key ID**

- Enables display of the encryption Key ID or Key Alias (if programmed), when a secure call is received
- Programmed on the PC Configure Radio Wide page under “Display Options”

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