

# Instructions for Authorization Keys and Radio Firmware Upgrades (Document No. 05-3496A01, Rev. H)

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## INTRODUCTION

This Radio Software Upgrade package contains files used to upgrade the authorization keys or software in GE MDS radio products. The package includes one or more of the following files:

- Radio software (.S28, .ipk, or .mpk files)
- Upgrade installer (Upgrade.exe)
- Authorization keys (.akf files)
- Product serial number relationships (.akr files)—LEDR radios only
- This instruction file

### **A. Instructions for upgrading SD radios.**

Note: These instructions are for the *SD Menu* interface. For SD radios running in x710 mode, see procedure "B" below.

1. Refer to the .akf file (viewable via Text Editor) to obtain the correct Authorization Key for the serial number of the radio you are about to upgrade.
2. Display the radio's Authorization Codes Menu (accessible via the Maintenance/Tools Menu).
3. Type the letter "A" to initiate entry of a new Authorization Key.
4. Enter the new Authorization Key and press <ENTER>.
5. The menu screen shows the currently Authorized Features.
6. Repeat the steps above for any additional Authorization Keys you may have, until all are entered.

## **B. Instructions for upgrading x710/x790/x810 (and SD radios in x710 mode).**

For x710/x790/x810 and SD radios operating in x710 Mode, connect to the radio using the "Radio Configuration Software." Click the "Radio" drop-down menu, and click on "Enter Authorization Code(s)." Enter the authorization key found in the .AKF file emailed to you and click "Program". (Alternately, you can "Search AKF File" for the key.) Finally, check the "Options" Tab for "Authorized Radio Options" to ensure the key programmed successfully.

## **C. Instructions for upgrading TransNET radios.**

Computer System Requirements: Computer running terminal program  
(*i.e.*, Windows HyperTerminal or similar utility) connected per radio manual.

For TransNET radios, connect to the radio using the "TransNET Radio Configuration Software." Click on the "Special" drop-down menu, and choose "Program Authorized Radio options..." Enter the authorization key found in the .AKF file emailed to you. (Alternately, you can "Search AKF File" for the key.) Finally, click the "Network Wide Diagnostic" tab to ensure the key programmed successfully.

## **D. Instructions for upgrading iNET**

Computer System Requirements: Computer running terminal program  
(*i.e.*, Windows HyperTerminal or similar utility) connected per radio manual.

1. Refer to the .akf file (viewable via Text Editor) to obtain the correct Authorization Key for the serial number of the radio you are about to upgrade.
2. Display the iNET radio's Authorization Key Menu (accessible via the Maintenance/Tools Menu).
3. Type the letter "A" to initiate entry of a new Authorization Key.
4. Enter the new Authorization Key and press <ENTER>.
5. The menu screen shows the currently Authorized Features.

## **E. Instructions for upgrading entraNET**

Computer System Requirements: Computer running terminal program  
(*i.e.*, Windows HyperTerminal or similar utility) connected per radio manual.

For entraNET Remotes, refer to document "05-4289A02.pdf"

For entraNET Access Points (AP), refer to document "05-4288A02.pdf"

## **F. Instructions for upgrading Mercury Radios**

Computer System Requirements: Computer running terminal program  
(*i.e.*, Windows HyperTerminal or similar utility) connected per radio manual.

1. Refer to the .akf file (viewable via Text Editor) to obtain the correct Authorization Key for the serial number of the radio you are about to upgrade.
2. Display the radio's Authorization Codes Menu (accessible via the Maintenance/Tools Menu).
3. Type the letter "A" to initiate entry of a new Authorization Key.
4. Enter the new Authorization Key and press <ENTER>.
5. The menu screen shows the currently Authorized Features.

### **G. Instructions for upgrading LEDR radios (Filter Upgrade).**

Computer System Requirements: Computer running terminal program (i.e., Windows HyperTerminal or similar utility) connected per radio manual.

1. Refer to the .akf file (Viewable via Text Editor) to obtain the correct authorization key for the serial number of the radio you are about to upgrade. (Note: You may need to look into the .akr file to see the serial number related to your chassis serial number for hot/warm standby swappable radio.)
2. Initiate an NMS terminal session with the LEDR radio. (Refer to the radio manual, P/N 05-3627A01, for login details).
3. At the LEDR> prompt, type: auth add <authorization number>, where <authorization number> is the number provided to you by the .akf file, then press the <ENTER> key.
4. This completes the required software changes. If desired, the "auth show" command may be entered to display all of the current options for the LEDR radio.
5. Check for alarms on the front panel LED display. If no alarms are present, the basic functionality of the radio can be confirmed. If an alarm is present, double check all cable connections and radio settings.
6. Upgrade procedure is now complete.

### **H. Instructions for firmware upgrades via DOS-based Computer (x710/x790/x810/TransNET Series)**

Any DOS-based computer may be used to upgrade the radio's firmware. Microsoft Windows is not required. Follow radio-specific instructions to upgrade firmware, per the instruction manual supplied. Firmware files are available for download on our website ([www.gemds.com](http://www.gemds.com)).

**I. Obtaining Technical Assistance:**

Technical assistance for GE MDS products is available from our Customer Support Team during normal business hours (8:00 A.M. - 5:30 P.M. ET, Monday through Friday) at 585-241-5510. You may email the Technical Support Team at [gemds.techsupport@ge.com](mailto:gemds.techsupport@ge.com)

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