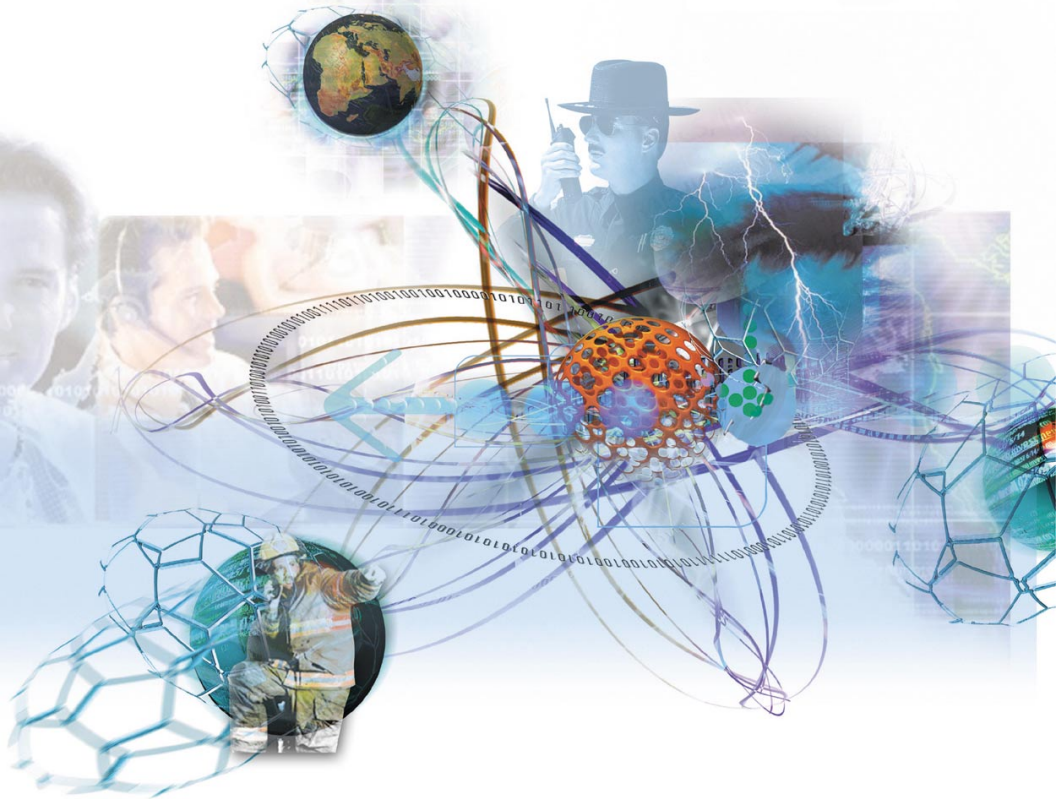


# Software Release Notes

AE/LZT 123 4629/1 R2B

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The Future of Mobile Radio



## Orion Mobile

DSP ProVoice

AE/LZY 213 876/1

AE/LZY 213 876/3

**tyco**  
Electronics

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# 1. INTRODUCTION

This document contains the Software Release Notes for the Orion ProVoice DSP. The table below describes two different Orion software kits:

Distribution Kit Number	Encryption Type	Media Included in Distribution Kit
AE/LZY 213 876/1	No Encryption	LZY 213 876/1 R2A – ProVoice DSP Unen
AE/LZY 213 876/3	DES Encryption	LZY 213 876/3 R2B – ProVoice DSP DES

## 1.1 COMPATIBILITY

The Orion ProVoice DSP software is compatible with the following:

- ProGrammer (TQ-3385) R9A<sup>1</sup>
- Orion C57 IMBE Module
- Orion ProVoice mobile radios

Radio Flash Code File	Radio ProVoice DSP Code File
OG41405.BIN <sup>2</sup>	B4R02A01.DSP      ProVoice Unencrypted B6R02B01.DSP      ProVoice DES

## 1.2 INSTALLATION REQUIREMENTS

### 1.2.1 Hardware and Software Requirements

- Orion C57 IMBE Module, part number ROA 117 2360/1.
- Personal computer meeting requirements of the ProGrammer TQ-3385.
- Programming cable, part number TQ-3377.
- Programming converter box, part number TQ-3370.
- ProGrammer software (R9A<sup>1</sup>), part number TQ-3385.

### 1.2.2 Updates

Programmer (TQ-3385) software is responsible for installation updates and loading of the Orion ProVoice DSP Flash software.

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<sup>1</sup> R9A or higher, unless stated otherwise in future releases of the Orion ProVoice DSP Software Release Notes or ProGrammer documentation.

<sup>2</sup> The OG41405.BIZ file is a compressed version of the OG41405.BIN file.

## 2. NEW FEATURES/ENHANCEMENTS

This section identifies new features added with each new R-State.

### 2.1 PROVOICE UNENCRYPTED – LZY 213 876/1 R2A

No new features or enhancements were added to this release.

### 2.2 PROVOICE DES – LZY 213 876/3 R2B

#### 2.2.1 DES ENCRYPTION VERIFICATION FEATURE

The Orion DES Encryption Verification Feature tests the DES algorithm when attempts to enter a DES capable system or group. If the test is successful the radio will perform on the DES capable system or group. If the test is unsuccessful the radio will display “HARDWARE ERR=0039” in the display. An unsuccessful test is the result of corrupted or incorrect DSP software. If the radio is programmed to power-up on a non-DES capable system, power cycling the radio will reset the unsuccessful test result and display. If the radio is programmed to power-up on a DES capable system, the DSP software issue needs to be resolved to reset the error.

## 3. PROBLEM RESOLUTIONS

### 3.1 PROVOICE UNENCRYPTED – LZY 213 876/1 R2A

No problems were resolved in this release.

### 3.2 PROVOICE DES – LZY 213 876/3 R2B

<b>TR Number</b>	<b>Resolution Description</b>
15054	Orion LZY 213 773/1 R40A (OG40400.BIN) radio flash code and LZY 213 876/3 R1C (B6R01C01.DSP) DSP flash code do not allow the radio to key load properly.  The Orion keys load correctly with LZY 213 773/1 R41A (OG41405.BIN) and LZY 213 876/3 R2B (B6R02B01.DSP).

## NOTES

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