Technical Note TN-707

Firmware upgrade for the Tait Orca Elan, Excel and Eclipse Conventional radios to v1.21

10 April 2002

Applicability	This Technical Note applies to the Tait Orca Elan, Excel and Eclipse Conventional portable radios.

1. Introduction

What is in this Technical Note	Orca Conventional firmware v1.21 has been released into production to replace the current firmware (v1.19) being installed in Orca Conventional product. Version 1.21 resolves some issues raised on v1.19 and earlier firmware versions. This Trunked firmware release has been implemented from radio serial number **14149547, job 160885, date 9 April 2002**.
What does it work with?	This Firmware is only compatible with Tait Orca Programming Application PGM v3.4.0 or later software. The latest full version of software with PGM version 3.4.0, Tait Programming Utilities (**TPU version 2.2**) can be downloaded from the worldwide web at www.taitworld.com/support however, this is a 34-MB file, and is also available on CD-ROM from Tait Electronics Ltd.
Important installation issues with v3.4.0	Before the new Tait Programming Utilities (**TPU v2.2**) which includes MPT Trunked PGM v3.4.0, Conventional PGM v3.4.0, Calibration v3.4.0, Download and Configuration v3.4.0, and Manuals, is installed, the older versions of TPU already on the computer MUST be removed. The most effective way to accomplish this is to use the TPU v2.1 CD-ROM to remove the old files, then use the TPU v2.2 CD-ROM to install the new files.
Trouble shooting	If any complications arise with updating the Tait Programming Utilities v2.2, please e-mail support@taitworld.com.

2. Resolved Issues

What is new in this release

The v1.21 Tait Orca Conventional radio firmware resolves the following issues for the **Tait Orca Elan**:

- Increased the voltage level used for detecting the power off. Raised as JOB 1201

- Emergency ANI sidetones are now muted. Raised as TIMS 2973

- Emergency ANI tones are suppressed on the first Transmit cycle so it does not appear as part of the Selcall sequence. Raised as TIMS 2975

- Emergency ANI tones are now sent on every Transmit cycle and does not use the ANI suppression time. Raised as TIMS 2975

- The correct status is now sent when using an Alpha preset. Raised as TIMS 3050

- Call diversion operation corrected. Raised as TIMS 3746

The v1.21 Conventional radio firmware resolves the following issues for the **Tait Orca Excel**:

- Increased the voltage level used for detecting the power off. Raised as JOB 1201

- Emergency ANI sidetones are now muted. Raised as TIMS 2973

- Emergency ANI tones are suppressed on the first Transmit cycle so it does not appear as part of the Selcall sequence. Raised as TIMS 2975

- Emergency ANI tones are now sent on every Transmit cycle and does not use the ANI suppression time. Raised as TIMS 2975

- The correct status is now sent when using an Alpha preset. Raised as TIMS 3050

- Call diversion operation corrected. Raised as TIMS 3746

What is new in this release	The v1.21 Tait Orca Conventional radio firmware resolves the following issues for the **Tait Orca Eclipse**:

- Increased the voltage level used for detecting the power off. Raised as JOB 1201

- Emergency ANI sidetones are now muted. Raised as TIMS 2973

- Emergency ANI tones are suppressed on the first Transmit cycle so it does not appear as part of the Selcall sequence. Raised as TIMS 2975

- Emergency ANI tones are now sent on every Transmit cycle and does not use the ANI suppression time. Raised as TIMS 2975

- The correct status is now sent when using an Alpha preset. Raised as TIMS 3050

- Call diversion operation corrected. Raised as TIMS 3746

- The External Function Keys can now be used as Volume keys. Raised as TIMS 4081

Compliance Issues	None, unless specific firmware versions are required by a network provider.

CSO action	Please inform all Tait internal technical and sales staff, and Tait accredited dealers of v1.21 firmware release. Upgrade portable radios with known issues that can be resolved with v1.21 firmware. Upgrade all computers to TPU v2.2 if an upgrade to the latest PGM software (v3.4.0) is considered.

3. Issuing authority

Name and position of issuing officer	Graham Brenchley Customer Support Engineer