Technical Note TN-764
Firmware upgrade for the Tait Orca 5010, 5015 and 5020 Conventional radios to v2.08

7 April 2003

Applicability

This Technical Note applies to the Tait Orca 5010, 5015 and 5020 Conventional portable radios.

1. Introduction

What is in this Technical Note?

The Orca Conventional Firmware v2.08 has been released into production to replace the current Firmware (v2.06) being installed in Tait Orca 5010, 5015 and 5020 Conventional products.

Version 2.08 Firmware was first implemented in an Orca 5010, radio serial number **14188897,** job **103002573,** date **14 April 2003**.

What does it work with?

This Firmware is compatible only with Tait Orca Conventional Programming Application TOP-CPA v3.6.1 or later.

The TOP-CPA v3.6.1 is available on the Tait Programming Utilities TPU v2.4 CD-ROM, or from www.taitworld.com/support.

2. Resolved Issues

What has been resolved in this release?

The Firmware version 2.08 resolves the following issues in the **Orca 5010, 5015 and 5020**:

- Resolved the issue of 'Stun' commands not reverting to a default status after the genuine 'stun' was transmitted. This prevents the 'stun' from being sent on the next Selcall transmission. Raised as TIMS 10821.
- Resolved the issue where Flexiscan would accept changes to the channels' scan attributes when the user exited the operation using the radio's (X) key. Exiting should have left the attributes unchanged, only long-press of the (✓) key should change those scan attributes. Raised as TIMS 14797.
- The default minimum <u>Transmit Lockout Duration</u> for the Tait Radio Modem has been changed to 10 seconds, default duration for other models remains at 30 seconds. Raised as TIMS 8173.

Issue resolutions (continued)

The Firmware version 2.08 resolves the additional issues in the **Orca 5015** and **5020**:

- If the radio's numeric keypad is used (instead of the scroll keys) in user programmable signalling mode PROGRAM SIGNAL to select a particular channel, Channel 1 was programmed instead of the chosen channel. Raised as TIMS 8913
- Corrected channel entry operation in radio user menu option PROGRAM GROUP. When entering channels that have more than one digit the clear key would remove all digits. Raised as TIMS 8319
- Corrected the occurrences of the Orca 5015 accepting new Conventional SDM's (Short Data Messages) when it already has an unread message stacked, therefore overwriting it. Raised as TIMS 10330.
- Resolved the issue of the display not updating the Monitor icon status if the auto quiet timer deactivated the monitor. Raised as TIMS 11150.

Implemented Enhancements

The feature enhancements to the PC Application TOP-CPA v3.6.1 below were implemented in conjunction with the Firmware v2.08 changes.

- Implemented DTMF ANI encode (5015, 5020 only).
  To enable this operation:
  - ➢ A call string must be defined on the DTMF Presets page
  - ➢ That DTMF ID must be defined for the desired channels on the Channels page
  - ➢ Tick Leading and/or Trailing ANI on the DTMF ANI tab of the DTMF page

  Raised as TIMS 8811.
- Added a tickbox called Subaudible Signalling for Rx Gate for the Tait Radio Modem only on the Subaudible Signalling Setup page. This determines whether the radio should detect valid subaudible signalling before the Rx Gate line is asserted, or if unchecked, the Rx Gate line is based on carrier squelch only. Raised as TIMS 9224.
- Function button operation has been enhanced. On the PC Application Key Settings page a Long Press action has been added for use with External function buttons such as speaker/microphones. Raised as TIMS 11638.

- The new menu option <u>Channel Selection</u> can now define the channel assignment order of the 16 position rotary selector. The options available now are:

  Normal - The first 16 channels and scan groups only (as it is currently asserted).

  Reassign - Any 16 channel ID's can be assigned in any desired order on the 16-way selector. NOTE: Scan identities cannot be assigned in this manner, but can still be recalled using the keypad scroll (◁▷) keys.

  Disabled - The rotary selector does not change the currently selected channel. The keypad scroll (◁▷) keys can still be used to change channels. (Orca 5015, 5020 only).
  Raised as TIMS' 13600 and 13601.

- Added Lone Worker functionality. When activated, the radio begins a pre-programmed <u>Inactivity Timer</u>. Once this time has counted down with no keypress, an audible alert will sound for the length of the <u>Warning Timer</u>. If no key is pressed in this time, then an emergency call is made to the Prime Emergency Number, or to the SOS Call String.
  No key press is an indication that the worker is incapacitated and an emergency call is automatically made. Raised as TIMS 13598.

Changes to the TOP-CPA v3.6.1

- Resolved the issue where the PC Application would allow programming of Flexiscan to unsupported radio Firmware versions, ie: those prior to v2.06.

- The 'DoEvents' loop in the TOP-CPA was changed to alleviate the degradation in performance of users PC's due to monopolising of the CPU's resources. Raised as TIMS 11597.

- Resolved the issue of the TOP-CPA not rejecting invalid file types (eg: Orca 5035) even though it displayed a pop-up stating the personality was invalid. Raised as TIMS 10127.

- Corrected the issue of having to click a drop-down box twice to choose options because it had opened and then quickly closed itself. Raised as TIMS 15161.

- Solved the issue of the menu pages not opening when clicked from the left-hand menu column tree. Raised as TIMS 15168.

- Resolved the issue for TOP-CPA users with non-English language region PC's. A pop-up error occurred when the user attempted to add or delete Scan Group members advising "Please enter a value between 1 and 4". This was due to the Flexiscan priority not converting between the fullstop and the comma for those regions that use "," as their value separator. Raised as TIMS 14720.

Compliance	None.

CSO Instruction	Please inform all technical staff and accredited dealers of Orca Conventional v2.08 Firmware release.
	Upgrade portable radios with known issues that can be resolved with v2.08 Firmware.

3.   Issuing Authority

Name and position of issuing officer	Graham Brenchley
	Customer Support Engineer

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