Technical Note TN-859-SR

**Tait Orca 5010, 5015 and 5020
Firmware Upgrade to v2.12
and TOP-CPA Upgrade to v3.9.0**

13 May 2004

Applicability

This Technical Note applies to the firmware utilised in Tait Orca 5010, 5015 and 5020 Conventional radios.
It also applies to the Conventional Programming Application v3.9.0 used to read/program radio personality files.

1. Introduction

What is in this Technical Note?

The Orca Conventional Firmware v2.12 has been released to manufacturing to replace the current Firmware (v2.11) being installed in Tait Orca 5010, 5015 and 5020 Conventional products.

Version 2.12 Firmware was first implemented in an Orca 5000, TOP-X2X10-B0, radio serial number **142XXXXX**, job 103XXXXXX, on XX May 2004.

This Firmware is compatible only with Tait Orca Conventional Programming Application (TOP-CPA) v3.9.0 or later.

What does it work with?

The TOP-CPA v3.9.0 is available on the Tait Programming Utilities TPU v3.9.0 CD-ROM available from the Tait Software Issuing Authority as IPN 406-00003-06, or available for download from support.taitworld.com under Portables -> Programming Software.

2. Changes

What has been resolved in this release?

The Firmware version 2.12 resolves the following issues for the Orca 5010, 5015 and 5020:

- When activating DTMF Emergency with two long key presses of a function key the radio would give an audible beep after the first key press. This has been changed so the audible indicator is heard only after the second key press. (TIMS 22045).
- FOCUS 11340: When decoding a Selcall sequence, the final digit was always being treated as a Status digit. This has been altered so that only free-format fields with a single digit as the final digit is treated as a Status.
- Implemented differing confirmation tones when the Lone Worker feature is enabled/disabled (TIMS 22072).
- Corrected issue whereby if caller divert status was received with correct timing, the radio would continue to ring without ability to cancel call. (TIMS 20279).
- Corrected issue whereby if radio was stunned, and another non-control status was received the radio would continue to ring. (TIMS 20442).
- FOCUS 9501: Selcall caller ID is no longer cleared if function key is assigned to activate backlighting.
- FOCUS 12110: Corrected issue where keypad would stop responding when radio placed in vehicle kit, and external microphone placed 'on-hook'.
- Activate / deactivate "Monitor" tones are no longer transmitted over-the-air. (TIMS 18947).
- FOCUS 13134: Corrected issue where repetitive quick PTT presses would cause CTCSS transmission to fail.
- Corrected issue where Flexi-scan group members could be modified as a user-programmable scan group. (TIMS 24179).
- Corrected issue where under specific circumstances no status label would be displayed when entering the status label menu. (TIMS 24205).

- Corrected issue whereby if no valid DTMF channels were defined, the radio would become inoperable when DTMF Emergency Mode was activated. (TIMS 24462).
- Corrected issue whereby DTMF Emergency Mode would not work on a channel with a Selcall system assigned. (TIMS 25517).
- FOCUS 15043: Corrected issue whereby if using channel banking and the radio was turned off and back on whilst on the highest channel within that bank, the radio would increment the active channel by 16 or 32 channels depending on the channel banking mode.

Implemented Enhancements

The feature enhancements to the PC Application TOP-CPA v3.9.0 below were implemented in conjunction with the Firmware v2.12 changes.

- FOCUS 10950: Added the ability to program the external function keys on the Tait Radio Modem.
- Added the ability to disable the Advanced Menu items in the User Defined Menu. (TIMS 26494).
- Added Copy and Paste functionality to the Channels page. Channel information may now be copied directly from the TOP-CPA into Microsoft Excel. They may also be pasted from Microsoft Excel into the Channels page of the TOP-CPA. (TIMS 26586).

Changes to the TOP-CPA v3.9.0

- Corrected Radio Modem database issue found in TOP-CPA v3.6.1 and TOP-CPA 3.8.1, where the application would read a radio modem successfully, however upon reprogramming a C07 error is received. (TIMS 17431).
- Corrected error message displayed when user attempts to add more than 20 Channel Signalling Presets. (TIMS 23665).
- DTMF ANI programming fields are now all visible for the Orca 5010. Originally the fields in the programming application were greyed out which was incorrect. (TIMS 23700).
- The Group Dialling field is now disabled in the TOP-CPA for Orca Elan and Orca 5010, as this is not a feature of either of these radios. (TIMS 22085).
- French language hot key issue resolved. The application will now use the first letter of the word "NONE" or its equivalent in other languages as the hot key. e.g 'S' for 'SANS' in French mode. (TIMS 23503).
- FOCUS 13508: Code changes to rectify error messages received using 'SANS' (NONE), in the DTMF ANI

Emergency Form and Channel CTCSS pages within the TOP-CPA operating in French Language

- FOCUS 12942: Functionality of the List Operations mode has been corrected for when the TOP-CPA is being used in French Language.
- Modified the task bar icon so that it will now appear in a consistent size and shape on all operating systems. Note: If the colour depth is reduced to less than 256 colours (eg 16 colours), the icons will have a dark blue appearance. (TIMS 22106).
- FOCUS 13890: Solution implemented for TOP-CPA French Language menu item text corruption.
- A user selectable Emergency DTMF activation indicator has been implemented. This is to improve consistency with the way that emergency DTMF and emergency SELCALL activation are alerted to the user (TIMS 24486).
- FOCUS 14639: Correction implemented for Status bits that were lost due to the fixed/variable call sequence containing 2 x S's, and the user entered status field beginning with a '0' (i.e '01'). The software now interprets '1' or '01' as '01' if there are 2 x S's defined in the TX call string. Likewise, '1' or '01' are interpreted as '1' if only 1 x S is defined.
- DTMF ANI fields for Orca Excel and Orca Eclipse are now unavailable to the user, as this is not a feature of either of these radios. (TIMS 25528).
- FOCUS 14634: Programming of Conventional Channel frequencies has been changed to mirror the functionality of the T2000 and TM8000 programming software. If the Rx frequency is changed on a particular channel, the Tx frequency for that channel does not change to the same unless it is the first time data has been entered into the Rx Freq field for that channel. This has been implemented to provide consistency across the product platforms.
- FOCUS 14639: Corrected issue where the TOP-CPA v3.8.1 would not program more than 16 status labels into an Orca 5020 radio even though the radio is capable of supporting 100.
- Short menu key fields default to "Disabled" if the associated menu option is no longer valid when the screen is opened. (TIMS 26392).
- The Channels Page has had the drag-and-drop functionality removed due to it causing a run time error causing the TOP-CPA to crash. (TIMS 27055).
- Individual channels can no longer be deleted if they are still currently part of a scan group. (TIMS 26846).

Compliance Issues	None

CSO Instruction	**CSO's** – Please inform all logistics, sales and technical staff of these changes

3. Issuing Authority

Name and Position of Issuing Officer	Paul Hinton Technical Support Technician	
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