TECHNICAL NOTE TN-1020-SR

5010, 5015, 5018, 5020 Firmware Upgrade to 2.15 & TOP-CPA Upgrade to 4.02.00

13 May 2005

Applicability

This Technical Note applies to the firmware utilised in the Tait Orca 5010, 5015, 5018 and 5020 Conventional radios.

It also applies to the TOP Conventional Programming Application v4.02.00 used to read / program radio personality files.

1.   Introduction

What is in this Technical Note?

The Orca Conventional Firmware v2.15 has been released to manufacturing to replace the previous firmware (v2.14) being installed in Tait Orca 5010, 5015, 5018 and 5020 Conventional products.

Version 2.15 firmware was first implemented in an Orca TOP-XXXXX-XX, radio serial number XXXXXXXX, job XXXXXXXX, on XXXXXXXXX. (This information will be inserted and the Technical Note updated when this information is available).

What does this work with?

This Firmware is compatible only with the TOP Conventional Programming Application (TOP-CPA) v4.02.00 or later.

The TOP-CPA v4.02.00 is available on the Tait Portables Programming Utilities (TPPU) v4.02.00 CD-ROM from the Tait Software Issuing Authority as IPN 406-00003-09, or for download from support.taitworld.com under "Portables" → "Programming Software".

2.   Changes

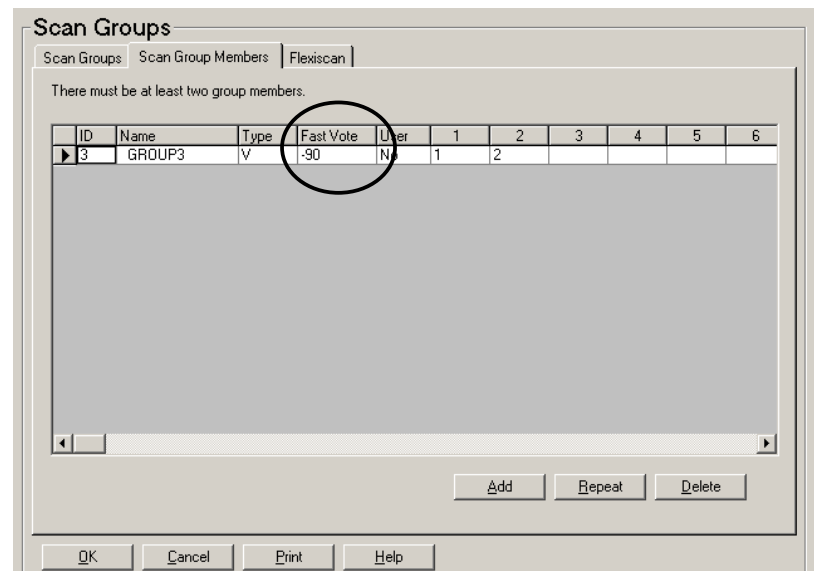**What has been resolved in this release?**

Firmware version 2.15 resolves the following issues in the Orca 5010, 5015, 5018 and 5020:

- FOCUS 19760: Corrected issue where under specific programming of Hidden Channels and Selcall Emergency the radio would enter the System Error condition. (Raised as TIMS 36259).
- FOCUS 20071: Corrected issue where if Selcall Emergency were used on a channel with CTCSS enabled, the radio would not transmit CTCSS for the first transmit / receive cycle. (Raised as TIMS 44553).

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Implemented Enhancements

The feature enhancements to the PC Application TOP-CPA v4.02.00 below were implemented in conjunction with the Firmware v2.15 changes.

- FOCUS 17682: The speed at which the Tait Orca now captures activity when scanning and voting has been improved. A new technical note will be released soon detailing the speed improvement. (Raised as TIMS 36259).
- FOCUS 17682: A new 'Fast Vote' option has been added to the Tait Orca. Now when a user defines a Scan Group as a Voting group a level in dBm may be entered in the 'Fast Vote' field. In operation if the radio detects activity on a channel with a signal level above the level defined in the 'Fast Vote' field, then it will not continue with the voting process and capture the channel immediately. Entering a value of '0' disables the Fast Vote feature. (Raised as TIMS 44908).

Scan Groups

Scan Groups | Scan Group Members | Flexiscan

There must be at least two group members.

	ID	Name	Type	Fast Vote	User	1	2	3	4	5	6
▶	3	GROUP3	V	-90	N	1	2				

Add   Repeat   Delete

OK   Cancel   Print   Help

Changes to the TOP-CPA v4.02.00

The TOP Conventional Programming Application v4.02.00 resolves the following issues:

- In occasional instances the User Defined Menu items would become corrupted causing the radio to act erratically. Now if invalid User Defined Menu data is detected the application will warn the user and reset the User Defined Menu items back to the defaults. (Raised as TIMS 41984).
- Invalid Channel Banking options were available for the 5015 and 5010. (Raised as TIMS 38507).
- FOCUS 15877: Trying to assign a Channel ID as 510 results in the correct error message. (Raised as TIMS 28225).
- FOCUS 17614: If the radio type was changing from a higher tier radio to a 5010 and an Alpha Symbol was defined a validation error was not generated. (Raised as TIMS 33033).
- FOCUS 18940: When using the TOP Calibration Application on Windows XP machines the 'Preferences' window was cropped short

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making it difficult to access some items. (Raised as TIMS 39379).

- Support added for the new Tait Orca 5018 product. (Raised as TIMS 29439).
- FOCUS 19052: The RSSI Indicator setting on the User Selectable page was not correctly retained if the model type was set to 5015 or Excel. (Raised as TIMS 40022).
- The Fast CTCSS Override feature was available for the Elan, Excel and Eclipse radios. This feature is available on the Tait Orca 5000 series only. (Raised as TIMS 39278).
- An error message is generated if the Flexiscan tick box is enabled on the User Selectable page when no scan group members have been defined for the flexiscan group. (Raised as TIMS 39276).
- FOCUS 18503: When printing data from the application, the print margins have been adjusted to give approximately 2cm print margin around all borders of the page. (Raised as TIMS 38055).

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

Tim Lummis
Technical Support Engineer

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Distribution Level

Associate

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