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# Technical Note TN-763

## Firmware upgrade for the Tait Orca 5000 MPT Trunked Portable radios to v4.17

10<sup>th</sup> April 2003

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### Applicability

This Technical Note applies to the Tait Orca 5030, 5035 and 5040 MPT 1327 Trunked portable radios.

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## 1. Introduction

### What is in this Technical Note?

The Orca 5000 MPT Trunked Firmware v4.17 has been released into production to replace the current production Firmware (v4.15) currently used in Orca 5000 MPT Trunked portables.

This Trunked Firmware release was first implemented in an Orca 5035 radio, serial number **14188983**, job **103002575**, date **14 April 2003**.

### What does it work with?

This Firmware is only compatible with Tait Orca Trunked PC Application v3.6.0 or later.

The Orca TPA v3.6.0 is available on the Tait Programming Utilities TPU v2.4 CD-ROM.

## 2. Resolved Issues

### What has been resolved in this release?

The Firmware version 4.17 resolves the following issues in the Orca **5030**, **5035** and **5040**:

- The 'DoEvents' loop in the TOP-TPA was changed to alleviate the degradation in performance of users PC's due to monopolising of the CPU's resources. Raised as TIMS 11596.
- Previously if you un-ticked Select Preset function from the User Defined Menu then the radio user was barred from selecting this operation, but changing a preset in the TOP-TPA would automatically re-enable the function. The TOP-TPA now displays a pop-up asking if the Select Preset function is to be enabled or not. Raised as TIMS 10011.
- When reading a radio or opening a personality file that has a 5 Digit Lookup Group and started with a 2 the PC Application would change this to a 9. Resolved. Raised as TIMS 13248.

- 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 15164.
- Resolved the inability of radio users to clear down calls that were in a Wait state because the radio was barred from accessing that channel. Raised as TIMS 12889.
- Resolved the inability to setup (\*11\*nn) Broadcast calls from presets on the 5 Digit Lookup page. Raised as TIMS 12943.
- Corrected the frequency parameter-checking algorithm that previously rejected valid 800 and 900 MHz Transmit frequencies on the Trunked Channel Blocks page. Raised as TIMS 10798.

## Implemented Enhancements

The feature enhancements to the PC Application TOP-TPA v3.6.0 below were implemented in conjunction with the Firmware v4.17 changes.

- Up to 4 separate ‘Scan’ (\*\*\*) groups can now be programmed.
  - A new page in the PC Application menu called Selective Scan defines each ‘group’ of up to 16 members.
  - Each group that appears greyed-out in the table on the Radio Unit ID page is now assigned an individual ID.
  - The members must be attributed either ‘Selectable’ or ‘Selectable + Scan’ on the Radio Unit ID page.
  - Assign a position on the rotary selector to access each (\*\*\*) scan group, where ‘n’ is the number between 1 and 4.

**Note:** You can still assign a rotary selector preset as (\*\*\*) with no number. This will associate ALL ‘Selectable’ and ‘Selectable + Scan’ groups in the Radio Unit ID page (which can be up to 32 group numbers). Raised as TIMS 9688.

- The Orca5000 portables can now re-register to the MPT Trunked system on power-up. This is enabled from a new tickbox found on the User Selectable page of the PC Application. Raised as TIMS 7674.
- Function button operation has been enhanced. On the PC Application Key Settings page a Long Press action field has been added for use with External function buttons such as speaker/microphones. Raised as TIMS 11639.
- Incorporated new Status 31. This enables the operation of the (#0#) ‘Cancel Dispatcher Callback’ feature which allows other users to remove their queued voice call from the Orca 5000 portable’s missed call stack. Raised as TIMS 13332.

- An Emergency mode operation was implemented for the Orca5000 MPT radios. A new page in the PC Application menu called SOS Options was added. This can be used in conjunction with the new Lone Worker enhancement if desired. Raised as TIMS 11673.
- Added Lone Worker functionality. When activated, the radio begins a pre-programmed Inactivity Timer. Once this time has counted down with no keypress, an audible alert will sound for the length of the Warning Timer. 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 13590.

**Compliance Issues**

None, unless a specific Firmware version is required by a network provider.

**CSO Instruction**

Please inform all technical staff and accredited dealers of v4.17 Firmware release and the latest version of PC Application required.  
Upgrade portable radios with known issues that can be resolved with v4.17 Firmware.

### 3. Issuing Authority

**Name and position of issuing officer**

Graham Brenchley  
Customer Support Engineer

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**Document History**

Original Release	10 <sup>th</sup> Apr 2003	GCB
Update for serial number	14 <sup>th</sup> Apr 2003	GCB