Technical Note TN-733

Firmware upgrade for the Tait Orca 5000 MPT Trunked radios to v4.13

12 August 2002

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

1. Introduction

What is in this Technical Note ?

The Orca MPT Trunked Firmware v4.13 has been released into production to replace the current Firmware (v4.12) being installed in Tait Orca 5000 MPT Trunked products.

Version 4.13 resolves some issues raised on v4.12 and earlier Firmware versions.

(This Trunked Firmware release has been first implemented in Orca xxxx, radio serial number xxxxxxxx, job xxxxxx, date xx August 2002). This information will be updated as soon as implemented in production.

What does it work with ?

This Firmware is only compatible with Tait Orca Trunked Programming Application v3.5.0 or later.

The Orca TPA v3.5.0 is available on the Tait Programming Utilities TPU v2.3 CD-ROM and supports the Audio Noise Reduction (on conventional channels only), Dynamic Power Control and Short Data Message entry enhancements.

2. Resolved Issues

What has been resolved in this release ?

The Firmware version 4.13 resolves the following issues in the **Orca 5030**:

- Radios were not responding to availability checks when used with Zetron PABX systems. Raised as TIMS 7492.
- Changed the ASIC clock line to go low when idle. This solves the power off issue. Raised as TIMS 8181.
- Implemented the Audio Noise Reduction enhancement on conventional channels. Raised as TIMS 8529.
- Change dynamic power control level to a programmable value. Raised as TIMS 8724.
- Assignment of 'Selectable' to the first group in the group member list would not be decoded by the radio. Raised as TIMS 9124.

The Firmware version 4.13 resolves the following issues in the **Orca 5035**:

- Added SDM (Short Data Message) transmit capability. Raised as TIMS 5167.

- Radios were not responding to availability checks when used with Zetron PABX systems. Raised as TIMS 7492.

- Keypad was not unlocking when the clear key was long pressed during a call. Raised as TIMS 7589.

- Any keypress immediately after a function key was pressed when in Select Status mode was being ignored. Raised as TIMS 7789.

- When Keypad Lock was activated from the menu it always exited the menu. Raised as TIMS 7903.

- When Keypad Lock was activated from the menu it wasn't toggling it's status on the display. Raised as TIMS 7997.

- Changed the ASIC clock line to go low when idle. This solves the power off issue. Raised as TIMS 8181.

- When in the menu and a locked key was pressed, the key pressed immediately afterwards was ignored. Raised as TIMS 8318.

- Incoming emergency calls were rejected if an out-going call was being setup. Raised as TIMS 8375.

- Implement the ANR (Audio Noise Reduction) enhancement on conventional channels only. Raised as TIMS 8529.

- Changed dynamic power control level to be a programmable value. Raised as TIMS 8724.

- The radio feature '3rd party divert' was not working. Raised as TIMS 8916.

- Assignment of 'Selectable' to the first group in the group member list would not be decoded by the radio. Raised as TIMS 9124.

- Orca battery display icon values changed to better represent the batteries voltage in terms of shift capacity. Raised as TIMS 9148.

The Firmware version 4.13 resolves the following issues in the **Orca 5040**:

- Added SDM (Short Data Message) transmit capability. Raised as TIMS 5167.

- Radios were not responding to availability checks when used with Zetron PABX systems. Raised as TIMS 7492.

- Keypad was not unlocking when the clear key was long pressed during a call. Raised as TIMS 7589.

- Any keypress immediately after a function key was pressed when in Select Status mode was being ignored. Raised as TIMS 7789.

- When Keypad Lock was activated from the menu it always exited the menu. Raised as TIMS 7903.

- When Keypad Lock was activated from the menu it wasn't toggling it's status on the display. Raised as TIMS 7997.

- Changed the ASIC clock line to go low when idle. This solves the power off issue. Raised as TIMS 8181.

- When in the menu and a locked key was pressed, the key pressed immediately afterwards was ignored. Raised as TIMS 8318.

- Incoming emergency calls were rejected if an out-going call was being setup. Raised as TIMS 8375.

- Implement the ANR (Audio Noise Reduction) enhancement on conventional channels only. Raised as TIMS 8529.

- Changed dynamic power control level to be a programmable value. Raised as TIMS 8724.

- The radio feature '3rd party divert' was not working. Raised as TIMS 8916.

- Assignment of 'Selectable' to the first group in the group member list would not be decoded by the radio. Raised as TIMS 9124.

- Orca battery display icon values changed to better represent the batteries voltage in terms of shift capacity. Raised as TIMS 9148.

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 v4.13 Firmware release.
	Upgrade portable radios with known issues that can be resolved with v4.13 Firmware.

3. Issuing authority

Name and position of issuing officer	Graham Brenchley
	Customer Support Engineer
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