

Technical Note TN-1843b-SR

TP8100 Firmware (Conv) v1.11 and (MPT1327) v2.12

20 December 2012

This software release was created to outline the changes required to comply with FCC narrowbanding regulations on TP8100 portable radios. Please refer to TN-1842 for an overview of FCC narrowbanding.

1. Software Releases

The new FCC narrowbanding regulations prohibit the use of medium or wideband channels between 150-174MHz (VHF) and 421-512MHz (UHF) in the USA in any radio product shipped after January 1, 2013.

To comply with this requirement the following Firmware versions will be applied to all new TP8100 products shipped from December 2012:

- Conventional **v1.11** for TP8110, TP8115 and TP8120
- MPT1327 Trunked **v2.12** for TP8135 and TP8140

These Firmware versions are supported only by the latest TP8100 programming applications **v2.13** and **v2.14**.

First Serial Number

The first production TP8100 with latest Firmware(s) was **25411227**.

2. TP8100 Programming Applications

The solution for other Tait terminals to support wideband after January 2013 is by SFE Key - TxAS083. This is not an option on the TP8100 platform so instead two programming applications have been produced.

Programming Application v2.13

TP8100 Programming Application v2.13 allows:

- only Narrowband channels on 'B1', 'H5' and 'H6' bands in TP8100's with Firmware v1.11 or v2.12 (or later)
- Medium and Wideband channels to be programmed in all other bands
- Medium or Wideband channels to be programmed to any frequency in existing TP8100 terminals with older Firmware

Only this version will be available to download from support.taitworld.com.

Programming Application v2.14

TP8100 Programming Application v2.14 also supports Firmware v1.11 and v2.12 and allows Wide, Medium or Narrow bandwidths on any frequency as per earlier programming applications.

This is not available to USA users.

3. Issue Resolved

TP8100 Programming Application v2.08 was incorrectly barring the entry of VHF (B1) frequencies divisible by 2.5kHz but not 5kHz e.g.: 159.4725 MHz with a blank error box. Focus 43220, TIMS 90000.

4. Known Issues Or Limitations

There are no plans for further development on this platform. As of this release the following issues are known:

Conventional

- When a new datafile is created 'Dial Selcall' is enabled in the User Defined Menu tree even if no Selcall Network is created. When the TP8100 is programmed the following pop-up may occur:



Clicking OK will disable the checkbox and continue programming the TP8100.

- When the SELCALL AND STATUS > RX DECODE SETUP > ALERT/RING PATTERN is set to '11111111' the duration of the ring is limited to a maximum of 8 seconds, regardless of the value entered into INTERNAL ALERT DURATION. No other patterns cause this. Focus 37815.
- When the Transmit channel of a Background Scan group is set to "Scanned" and the radio had last received on that particular group member and then resumed scanning it does not transmit on the "Scanned" channel as expected with PTT, but on the channel that was selected when group was activated.

MPT1327 Trunked

- Following a stun command the TP8100 cannot make or receive calls as expected, but still receives group calls
- TP8100 can register on channels within the "Non Applicable channels" following a comprehensive hunt.
- If the TP8100 is in menu mode, initiating a SOS emergency call will fail
- Conventional Mode, if enabled by function key, does not exit with first 'x' button keypress

5. Publication Information

Related Documentation

TN-1842-SR – FCC Narrowbanding Overview
TN-1510-SR – Previous TP8100 Software Release Note
TN-1298 – Upgrade process in the TP8100

Compliance Issues

None.

Compatibility Issues

None.

CSO Instruction

Inform all service staff and dealers of the released information.

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Distribution Level

Associate.

Document History

Issue	Date	Description	Author
–	17 December 2012	First release	N Intemann
(b)	20 December 2012	Added First Serial Number	N Intemann