



# Technical Support

TECHNICAL NOTE

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## Technical Note TN-905 TM8100 Mobile radio Selcall system with Stun and Revive Operation

17 Aug 2004

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### Applicability

This Technical Note details the basic setup of 5-tone Selcall in the TM8100 and how to set Control Status for Stun and Revive operation.

## 1. Information

### Setting up basic 5-tone Selcall

Start up the TM8100 PC Application.  
Set the desired channel RF requirements then, from the left side menu:

Click SELCALL IDENTITY

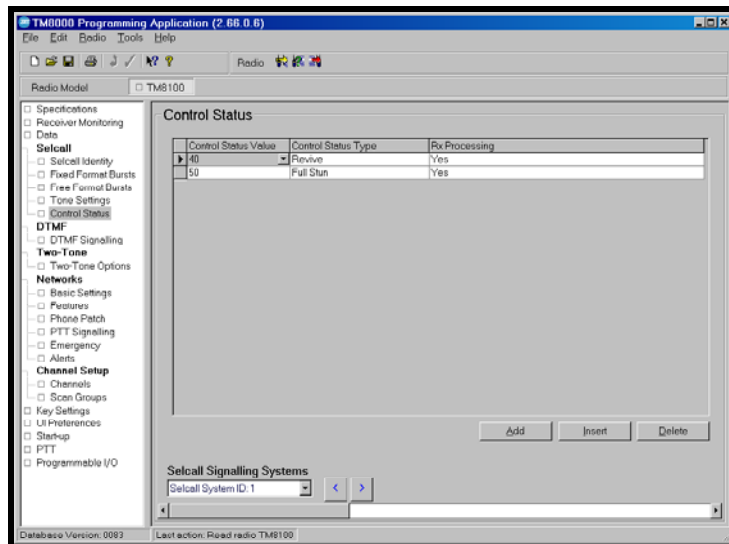
- Click on the **+ Add** button to add a Selcall Network
- Set the Tx Format and Rx Format to suit
- Set the Rx Decode 1 with a individual Rx Identity (this must be an exclusive number for each radio)
- Click on SELCALL > TONE SETTINGS
- Set the Selcall format type e.g.: CCIR and then the Tone Period and Gap Period desired. (Default is CCIR with 20ms periods and gaps).

### Setting up Selcall Stun

Click on CONTROL STATUS:

- Click **Add**
- Set the Control Status Value to a suitable number e.g.: 40
- Set the Control Status Type in the dropdown to Revive
- Click **Add**
- Set the Control Status Value to a suitable number e.g.: 50
- Set the Control Status Type in the dropdown to Full Stun
- Leave Rx Processing as Yes (default)

See Screenshot next page.



- Click on NETWORKS > BASIC SETTINGS
- On the BASIC NETWORK SETTINGS tab
- Set the network (usually Network ID:1) to be Selcall from the drop-down of Signalling Type.

## How Stun works

When an individual radio needs to be stunned to halt all RF operation a despatcher will need to send the 'Full Stun' Control Status over-the-air to the specific radio.

The Selcall format of the attached personality is 'RRRRR--SS' therefore the sequence for Full Stun of this radio is '54321--50'. The radio will acknowledge back with a Beep over-the-air.

To 'Revive' this radio it will need to receive '54321--40' over-the-air from the despatcher. The radio will acknowledge back with a Beep over-the-air and return to normal operation.

When a radio is Stunned it will flash the Red LED quickly, and slow blink '—' on the display.

No function buttons will operate, the radio will not receive or transmit.

The radio can be powered off and on but this will not remove the stunned state.

If the radio is read Status when stunned the following pop-up will appear:



**Point to Note** The TM8100 radio CAN be reprogrammed with another personality and the radio returned to an operational state but this ensures the integrity of the radio's existing information can never be read or compromised.

**Compliance** None.

## 2. Issuing Authority

**Name and Position of Issuing Officer** Graham Brenchley  
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