

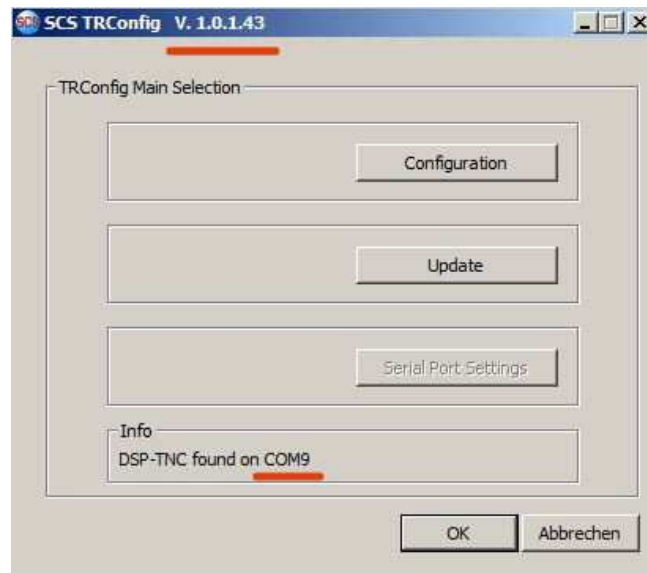
SCS Tracker DSP TNC

setup for toggling between RPR & FSK300

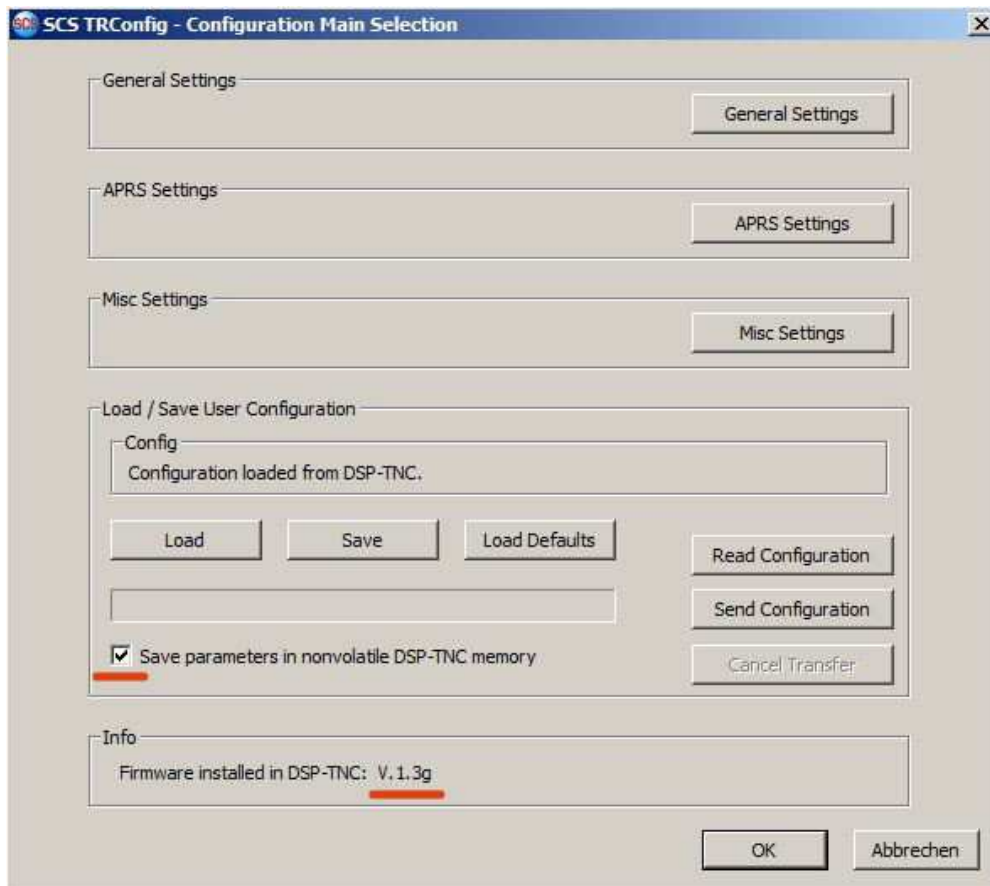
Click here to check for updates <http://sa7sky.net/documents/SCS-Tracker-Toggle-Mode.pdf>

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This description shows the personal setup by DF8LS-9 matching with the Kenwood TS-480SAT. It is not an official version of the manufacture.



Picture 1



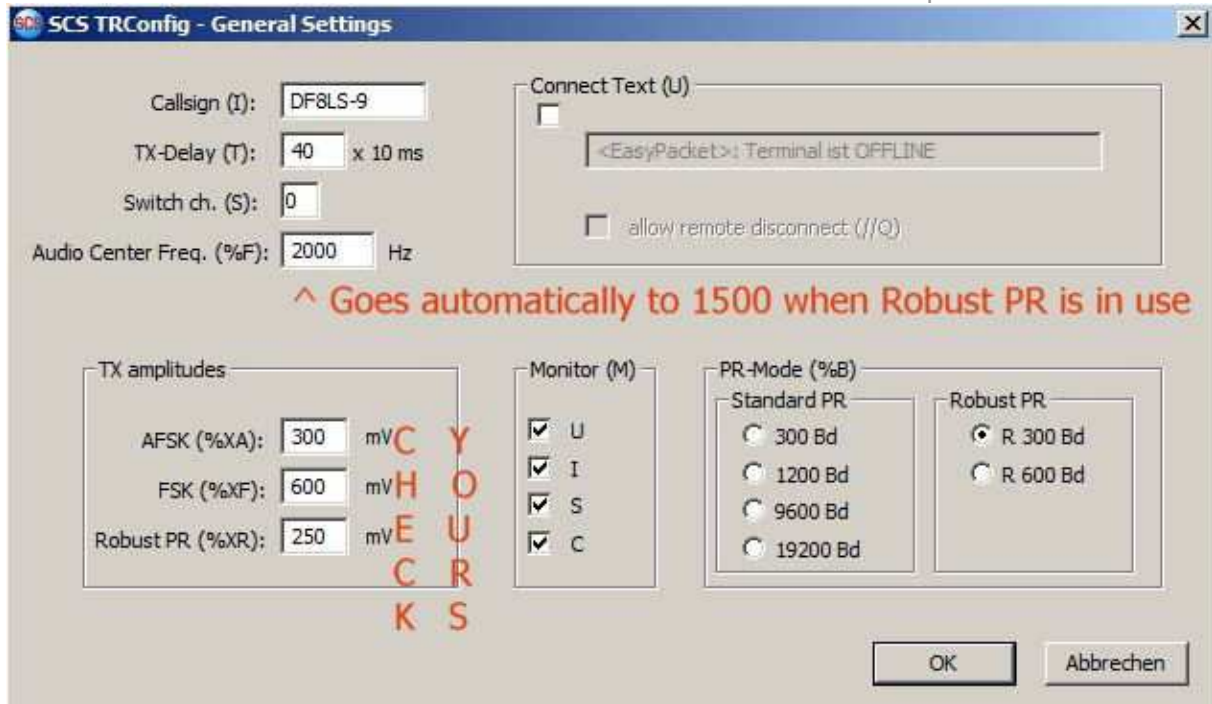
Picture 2

SCS Tracker DSP TNC

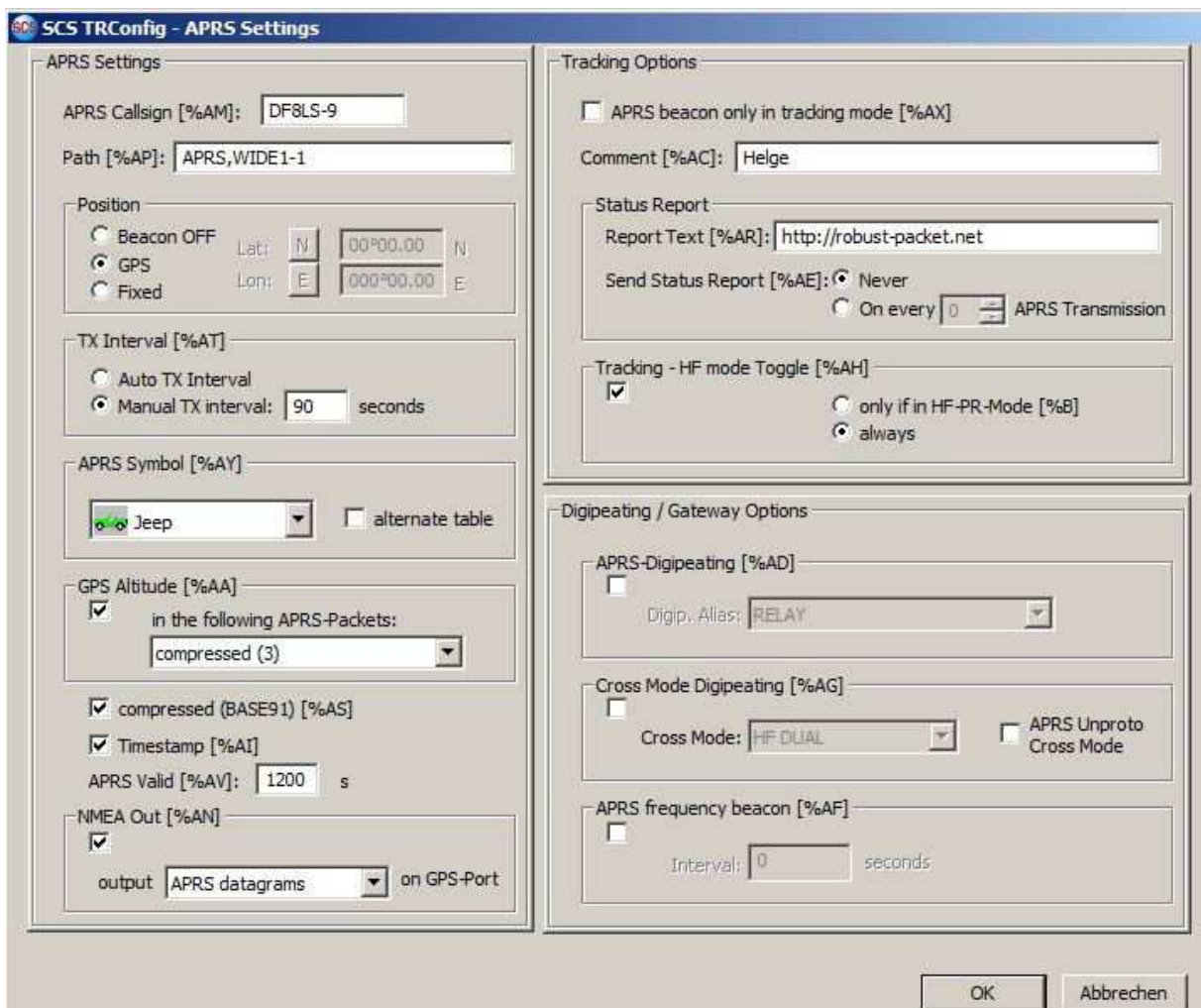
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Picture 3



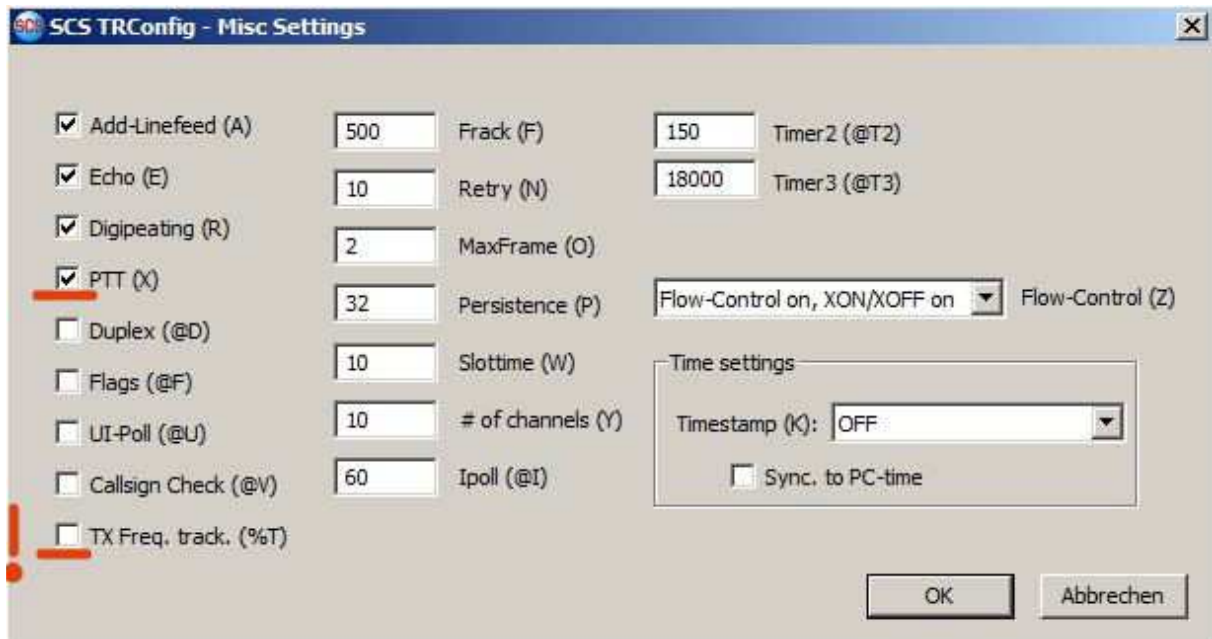
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Picture 4



Picture 5



ON: Sleep-Mode active. TNC switches off till next position interval. No reception in between! **BUT: THIS IS TOGGLE-MODE !!!**

OFF: TNC-Mode active. Continuous reception. No power saving ! Selected Packet only. In this case RPR only - see (%B) R 300 marked.

This configuration is good for 30m APRS traffic on RPR & FSK300 in the toggling mode.

Highlighting the following remarks:

SCS TRConfig V. 1.0.1.43

Watch out for the latest firmware. The Info box show the COM port to find device.

SCS TRConfig – Configuration Main Selection

Check to mark in box *"Save parameters in non-volatile DSP-TNC memory"* to not loose the setup after power cut. Info shows again the firmware version.

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SCS TRConfig – General Settings

Callsign (I) is essential to fill. *Audio Centre Freq. (%F)* should be automatic 2000 when toggling between RPR & FSK300. Anyway set to 2000. *TX amplitudes Robust PR (%XR)* 300 – check out! Or till ALC starts hitting maximum value. *PR-Mode (%B)* anything lower 1200 Bd, so R 300 Bd has been selected. So RPR is the only mode, when DIP switch 1 goes in the off position!

SCS TRConfig – APRS Settings

Send Status Report [%AE] select odd figure to alternate even this between RPR and FSK300. *APRS beacon only in tracking mode [%AX]* check box is marked. *Tracking – HF mode Toggle [%AH]* check box is marked.

SCS TRConfig – Misc Settings

Deselect TX Freq. track. (%T). Modern Transceivers provide sufficient stability to meet accuracy requirements for PR and like this everybody comes back to use **10.147,300MHz*** as standard frequency for RPR and RPR/FSK300 toggle mode.

*Transmitter to 10.147,30MHz

Check if your Transceiver operates what it indicates. How?

After a few transmissions in FSK300 look for raw&call in aprs.fi with a station that received your beacon i.e. <http://aprs.fi/?c=raw&call=OE3MZC-4> and verify your offset. If it reads +50 then instead of 10.147,300MHz you have to dial 10.147,250MHz and vice versa (for USB – what you operate anyway)

```
2010-02-20 14:33:05 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): OH8GKP +25, F5ZQB-3 +12, G1ZRN-14 0, F1ZXR-3 +6
2010-02-20 14:48:04 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): WIDE5 0, F1CHJ-2 +6, DF8LS-9 0, IW4EGP-4 0
2010-02-20 14:48:04 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): RK3ABW-1 0, IS0AML-4 +25, SV2HRT-6 +25, SP9UX 0
2010-02-20 14:48:04 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): SV2HRT +25, EA2K-15 0, TRACE7 0, OE3XUR 0
2010-02-20 14:48:04 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): OE3YCB-4 0, OE3XUR-3 0, F6KPH-4 0, OE5OZL 0
2010-02-20 14:48:05 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): WIDE4 0, SV2HRT-2 +25, F4EQL 0, F4EQL-3 0
2010-02-20 14:48:05 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): WIDE3 0, DF4FO +18, IN3RSV-10 +12, G1ZRN-1 0
2010-02-20 14:48:05 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): RV4CQ 0, WIDE2 0, IW8RPQ-4 0, F6EWX-14 0
2010-02-20 14:50:13 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): MB7UXN-14 +15, F5ZVO 0, WIDE1-3, EA6XQ 0
2010-02-20 15:03:04 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): EA6XQ 0, EI3YA +15 0, WIDE5 0, F1CHJ-2 +15
2010-02-20 15:03:04 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): DF8LS-9 0, IW4EGP-4 0, RK3ABW-1 0, IS0AML-4 +25
2010-02-20 15:03:04 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): SV2HRT-6 +25, SP9UX 0, SV2HRT +25, EA2K-15 0
2010-02-20 15:03:04 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): TRACE7 0, OE3XUR 0, OE3YCB-4 0, OE3XUR-3 0
2010-02-20 15:03:04 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): F6KPH-4 0, OE5OZL 0, WIDE4 0, SV2HRT-2 +25
2010-02-20 15:03:04 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): F4EQL 0, F4EQL-3 0, WIDE3 0, DF4FO +18
2010-02-20 15:03:04 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): IN3RSV-10 0, G1ZRN-1 0, RV4CQ 0, WIDE2 0
2010-02-20 15:04:29 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): IW8RPQ-4 0, F6EWX-14 0, MB7UXN-14 -15, F5ZVO 0
2010-02-20 15:18:04 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): EA6XQ +9, EI3YA +15 0, WIDE5 0, F1CHJ-2 +15
2010-02-20 15:18:04 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): DF8LS-9 0, IW4EGP-4 0, RK3ABW-1 0, IS0AML-4 +25
2010-02-20 15:18:04 UTC: OE3MZC-4>APRS,WIDE1-1,WIDE2-2,qAR,OE3YCB-4:>dF (Hz): SV2HRT-6 +25, SP9UX 0, SV2HRT +25, EA2K-15 0
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Picture means: If IS0AML-4's transmitter shows 10.10147,300MHz for now, the dial-qrg after adjustment would be 10.10147,275MHz. INDICATED ! Remember TX Freq. track (%T) here is selected off !

Raw&call is not available for RPR-Signals. This mode is not as fragile as FSK300.

Kenwood TS-480SAT

Select Menu 46 to 4 (AF input) = standard by Kenwood

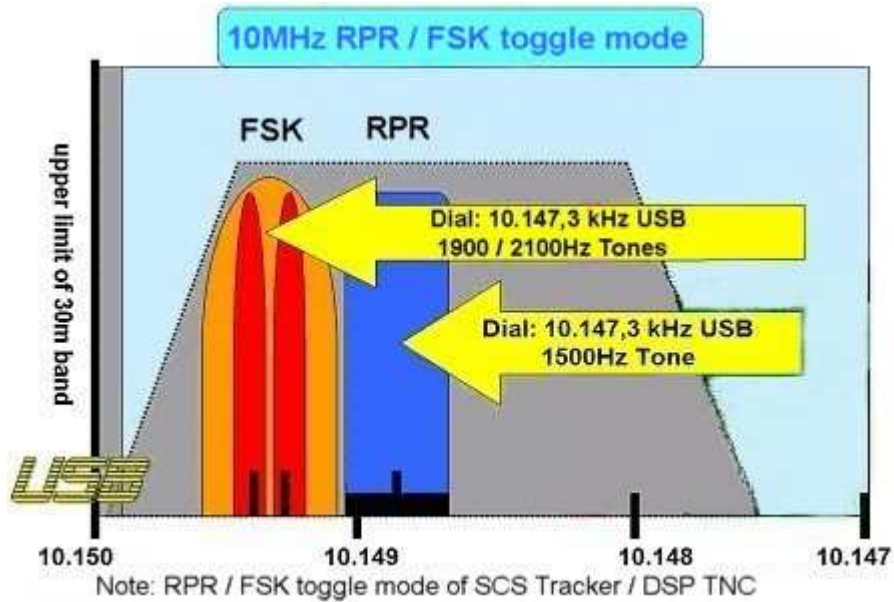
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The principal of the selected setup



All of the above is matter to open discussion and any input is welcome !

Email under following address: DF8LS@Robust-Packet.net