

{TESS+} VHF Training

Module 2: Radio configuration

Read more about {TESS+}: www.wfp.org/telecommunications-security-standards

Email: TESS@wfp.org



Session objectives

- Overview of radio configuration

Radio configuration

Two standard {TESS+} network code-plug files are available for the:

1. network controller radio (i.e. SOC based radios)
2. network user radio (i.e. user base, mobile and handheld radios).

The following features are included in the code-plugs:

- 5-tone SelV ID appears only in the devices programmed as the network controller.
- Once an emergency call has been received, audio alarms will only sound on the network controller radio with an accompanying visual indicator (i.e. red LED blinking).
- The network user radio cannot stun, un-stun or make any silent interrogation requests, it can only send an emergency request.
- The network controller radio can stun, un-stun, identify emergency callers and send a silent interrogation to any standard programmed radio based on its SelV radio ID.



Radio configuration - features

- VHF network **controller** side:

- Stun and un-stun user (remote disabling of stolen/rogue radios)
- Silent interrogate of user (remote polling to see if a radio is online)
- Group call (group calls for emergency alerts)
- Decoding of the user emergency sequence is enabled.



- VHF network **user** side:

- PTT with call ID at the end of transmission
- Auto-acknowledge for silent interrogate
- Auto-acknowledge for stun/un-stun (radio will confirm if stun/un-stun was successful)
- Decoding of the user emergency sequence is disabled.



Radio configuration – code plugs

- Standard code-plugs for Motorola and iCOM radios can be found in the {TESS+} online repository (<http://bit.ly/tess-public>) for the following equipment:

Motorola: Handheld: DP2400e/DP4801e
Base station: DM2600/DM4601e
Repeater : SLR5500



iCOM: Handheld: IC-F1100D(TS)
Base station: IC-F5062D
Repeater: IC-F5100



Radio configuration - software

- Software to install:



MOTOTRBO

Customer Programming Software (all equipment)



iCOM

CS-F2100D (Handheld)

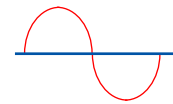
CS-F3160_F5060 (Mobile and base)

CS-FR5000 (Repeater)

- *Contact your agency to request access to software.*

Radio configuration – programming

- Run the equipment software and connect the programming cable
- Identify callsign and SelV ID
- Identify a channel (simplex frequency)



Frequencies

1.2.3.

Channels

ID

SelV ID

Student resources

- SCS VHF-UHF standards V63

Questions and remarks

