

{TESS+} VHF Training

Module 2: Basic VHF/UHF network design

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

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Session objectives

- Overview of basic VHF/UHF network design

Technical standards for VHF/UHF supporting SCS

- Experience over the past years:
 - Different incompatible full digital VHF/UHF networks
 - Complex design
 - Expensive deployment and running costs
 - Features of digital VHF/UHF radios are not required
- {TESS+} has re-defined the VHF network architectural standards, as follows:
 - **Analogue** VHF user access
 - Supporting backbone configuration (repeater network) is an **open** architecture which can be either legacy analogue VHF repeater systems, or DMR, dPMR, TETRA digital systems
 - *This {TESS+} standard was endorsed by the IASMN in 2019.*



Technical standards for VHF/UHF supporting SCS

- The new {TESS+} open standard for UN common security VHF radio networks only mandates two basic user requirements:
 - basic PTT (push-to-talk) where users can reach all other users and the SOC (Security Operations Centre) in the UN security communications network.
 - current standard SelV (selective calling system) features - send the user call ID, stun/un-stun radios remotely, silent interrogate, generic "emergency" feature.



Stun
Un-stun

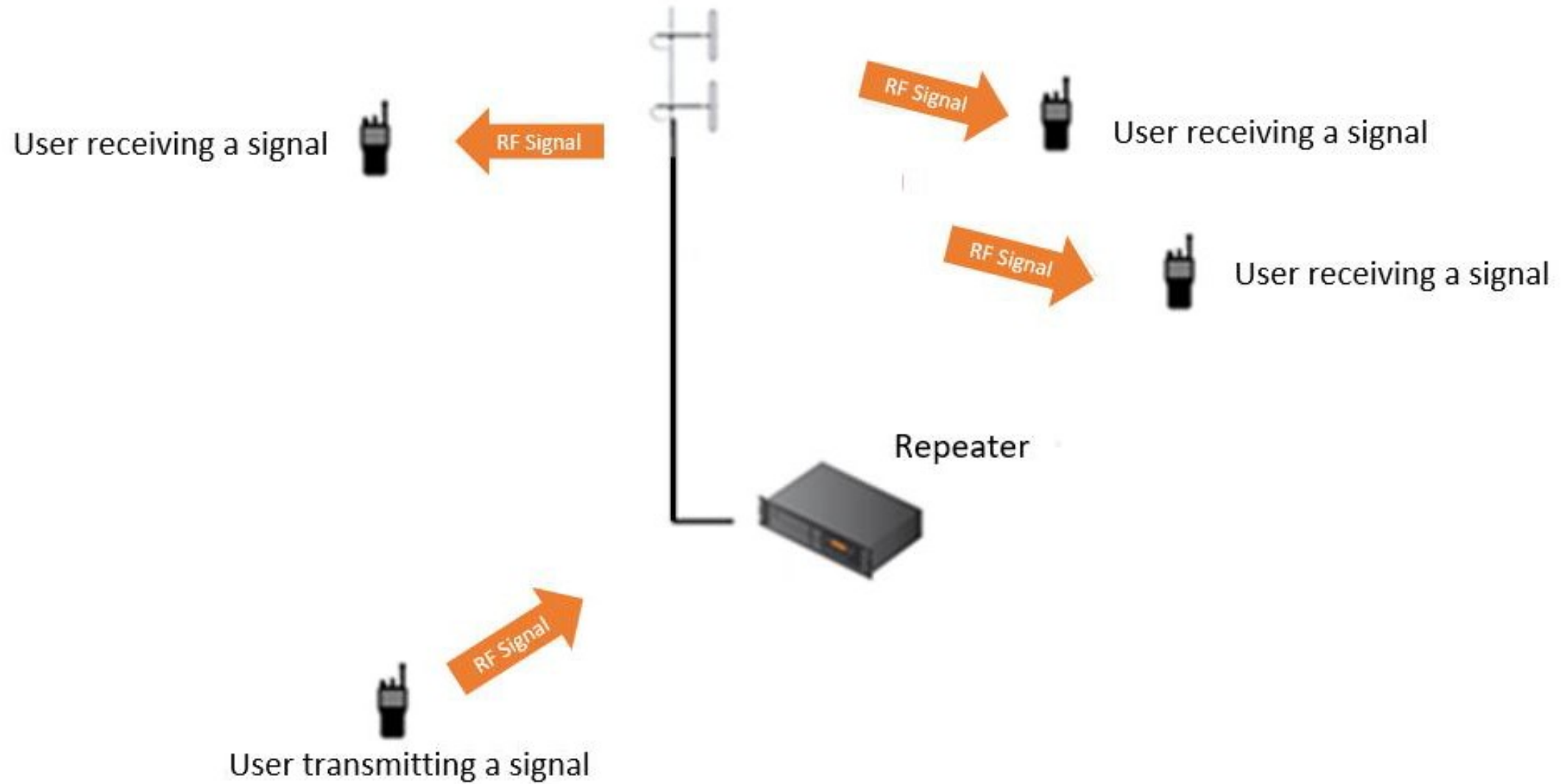


Silent
interrogate



Emergency
alerts

VHF/UHF network standards



Student resources

- SCS VHF-UHF standards V63

Questions and remarks

