## **{TESS+} VHF Training**

#### Introduction



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## Session objectives

- Introduce trainer and participants
- Agree on ground rules and parking lot
- What is {TESS+} ?
- Learn about the objectives of this training
- Review the course agenda





# Introduction

- Trainer:
- Participants:



#### Introduction

- Ground rules:
  - Mobile phones
  - General administration
  - Timing
- Parking lot
- Main training objective:
  - Train participants to design, program and maintain a VHF radio Security Communications System (SCS) conforming to UN standards



#### What is a SCS?

- SCS (Security Communication Systems) are an essential part of humanitarian operations as a security mitigation measure and backup communication system
- Based on the UNDSS USG communique (refer to guidance on future security telecoms system), the SCS for humanitarian organisations envisages one of the following scenarios:
  - A: full reliance on public mobile phone networks for the security communications system
  - B: mobile phone networks are available but prone to downtime
  - C: reliable public mobile networks are not available in the operational area



#### What is a SCS?

SCS solutions:

 VHF/UHF private radio networks: where necessary, VHF and UHF radio networks are established and maintained

- Long range communication: communication is required outside of common operational areas, SCS devices such as portable satellite devices, *HF is phased out*
- Security Operations Centre (SOC): establishing the tools that security assistants need to carry out work including emergency communication devices VHF, UHF, satellite communications, internet connectivity, office equipment, printers, desks and backup power.



## What is {TESS+}?

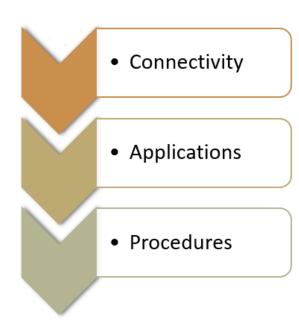
- {TESS+} is a permanent and institutionalised support service to the UN Security Management System (UNSMS) and NGO community, with a mandate, budget, service deliverable and governance structure
- {TESS+} works closely with ICT personnel of UNSMS organisations through ICT Working Groups (ICTWGs), and security personnel of the UNSMS and NGO stakeholders
- {TESS+} mandate:
  - Provide active field support
  - Guide and assist the UNSMS to establish pragmatic and cost effective SCS
  - Longer term standardisation of SCS systems.



## What is {TESS+}?

- {TESS+} key services :
  - Normative services (standard design, documentation, assessment and monitoring)
  - Field support services (hands-on remote/onsite technical guidance, training, capacity building)
  - Operational process support services (global and field level)

- {TESS+} service layers:
  - Connectivity layer
  - Application layer
  - Procedure layer





#### Training objectives of this course

- Introduction to radio basics and two-way VHF radio comms
- Introduction to UN VHF standards and Security Communication Systems (SCS)
- Program end-user radios using standard codeplugs
- Assign callsigns and SelV IDs to users based on the standard callsign allocation sheet
- Support end-users to access services on the radio network
- Install, maintain and programme radios and repeaters according to UN standards
- Perform technical site assessments



# Agenda – {TESS+} VHF training course

#### Module 4: Installation and Introduction » The Telecommunication Security Standards {TESS+} maintenance » UN Security Communications System (SCS) » Installation best practice and maintenance » Technical site assessment **VHF Training Module 1: RF basics Module 3: Radio programming** » Basic RF theory » Standard radio procedures and callsigns » Overview of two-way VHF/UHF radio networks » Standard codeplugs » Motorola radio programming » iCOM radio programming

#### Module 2: Standards for VHF/UHF radios

- » Basic network design
- » Radio configurations
- » Standard radio equipment
- » End user support



#### Student resources

- UNDSS USG communique regarding guidance on future security telecommunications system / July 2018
- UNDSS USG communique regarding further guidance on security communications system / April 2019
- {TESS+} recommendations on the phase-out of HF radio as a security communications systems tool strategy paper / January 2021



### **Questions and remarks**



