



External SOP

For CIO/G6, National Training Center

VERSION 1.0

24 Feb 2012

I. VISION AND MISSION

Vision Statement

Subject Matter Experts that stay at the forefront of Army modernization efforts that support the NTC training mission, while ensuring responsible utilization of current C4I assets.

Mission Statement

To advise the Commanding General, NTC and Staff on all consolidated telecommunications and other information system matters pertaining to the command. Provides staff supervision and management for the formation of policies and the oversight of the planning, development and implementation of tactical and sustaining base information systems, exercise support systems and contingency and combat operation systems. Enable the Commander to ensure that spectrum is protected and properly leveraged to support current and future operations, to include all Enablers, and synchronize efforts with subordinate commands and to ensure the effective implementation of current telecommunications technologies, as well as supporting modernization efforts.

II. Rotation Support

1. RTU / Spectrum Support

If the RTU does not have a 25E:

SOI/SIGNAL COORDINATION

- D-220 - Send Communication Planning Packet to RTU S6 (FC 350-50-1, AR 5-12, Example Emitter list, ESET Worksheet, D-210 VTC Slides)
- D-210 - Staff to Staff VTC with RTU (NTC provides Capabilities Brief)
- D-180 - IPC with RTU at home station (Coordinate and begin detailed planning)
- D-165 - Coordinate Spectrum concerns with RTU S6 (UAS, Radars, CREW, EW – National Level Coordination Required)
- D-120 - Receive RAW SOI data (MNL, Emitter List, 1060R) assist S6 provide examples/blank forms
- D-115 - Receive frequency request from RTU in SFAF format, assist S6 provide examples/blank forms
- D-100 - Provide Non SOI frequencies to RTU (UAS, Radars, HCLOS)
- D-90 - PDSS (Coordinate SOI, Frequencies, and IT/IA Requirements)
- D-90 - Conduct National Level Coordination

SOI REVIEW

- D-70 - RTU Provides SOI MNL updates
- Import SOI data into ACES
- Conduct review of SOI data

SOI DEVELOPMENT

- Master Net List Input/Edit/Merge (52ID & NTC AVN Nets)
- Setting Up TEK Share Groups
- Create Platforms
- Add Equipment to Platforms
- Generate Key Tags
- Crypto-Generate
- Conduct Frequency Analysis
- Create Frequency Resources
- Create Call word Dictionaries
- Create SOI Suffixes and Expanders
- Create Sign/Countersign Dictionary
- Create Smoke/Pyrotechnics Definitions
- Create Net Group Extracts
- Create TEK & KEK Share Groups

GENERATE & COORDINATE FINAL SOI/SIGNAL REQUIREMENTS

- Generate SOI Editions
- Create SOI Extract Group Packet
- Generate Reports, create ACES Export Files
- D-60 - NTC G6 CO Provides completed SOI (10 time periods generated) to RTU S6 in Excel format for review
- D-30 - RTU Signal Officer provides SOI Comments to NTC G6 CO
- D-30 - Schedule required frequency bands on Integrated Frequency De-confliction System (IFDS)
- NTC G6 CO edits SOI as required

GENERATE/CREATE HOPSET AND LOADSETS

- Generate HOPSET
- Create the CNR Load set
- Create the Aviation Load sets

CREATE HARD COPIES EW LIST AND SOI

- Extract data from ACES for EW List
- Generate EW List
- Extract data from ACES for hard copy SOI
- Create SOI in Excel format

DOWN LOAD/DATA TRANSFER

- CT3 Download SOI to DTD (SKL, ANCD)
- CT3 Download CNR Load set to DTD (SKL, ANCD)
- CT3 Download AVN Load set to DTD (SKL, ANCD)
- Edit TEK & KEK Download RDS Load set to DTD

DELIVER FINAL PRODUCTS

- D-5 - File transfer completed SOI (Excel Format) to RTU, 52ID
- D-5 - Export EW List in PDF format and file transfer to RTU, 52ID, and OPFOR
- D-5 - Deliver DTD's (SKL & ANCD) with completed SOI, HOPSET and LOADSETS to 52ID for distribution to RTU

RTU has trained 25E:

SOI/SIGNAL COORDINATION

- D-220 - Send Communication Planning Packet to RTU (FC 350-50-1, AR 5-12, Example Emitter list, ESET Worksheet, D-210 VTC Slides)
- D-210 - Staff to Staff VTC with RTU (NTC provides Capabilities Brief)
- D-180 - IPC with RTU at home station (Coordinate and begin detailed planning)
- D-165 - Coordinate Spectrum concerns with RTU (UAS, Radars, CREW, EW – National Level Coordination Requirements)
- D-120 - Receive RAW SOI data (MNL, Emitter List, 1060R)
- D-115 - Receive frequency request from RTU in SFAF format
- D-100 - Provide frequency resources to RTU
- D-90 - PDSS (Coordinate SOI, Frequency, and IT Requirements)
- D-90 - Conduct National Level Coordination

SOI REVIEW

- D-70 - RTU Provides SOI (1 Time Period Generated) for review
- Import SOI data into ACES
- Conduct review of SOI data

SOI DEVELOPMENT

- Delete Generated 1 Time Period SOI edition
- Delete Assigned Key Tags
- Master Net List Input/Edit/Merge (52ID & NTC AVN Nets)
- Create Net Group Extracts (52ID & NTC AVN Nets)
- Generate Key Tags
- Crypto-Generate

GENERATE & COORDINATE FINAL SOI/SIGNAL REQUIREMENTS

- Generate SOI Editions
- Create SOI Extract Group Packet
- Generate Reports, create ACES Export Files
- D-60 - NTC G6 CO Provides completed SOI (10 time periods generated) to RTU S6 in Excel format for review
- D-30 - RTU Signal Officer provides SOI Comments to NTC G6 CO
- D-30 - Schedule required frequency bands on Integrated Frequency De-confliction System (IFDS)
- NTC G6 CO edits SOI as required
- D-15 - Extract SOI from ACES, file transfer to RTU

GENERATE/CREATE HOPSET AND LOADSETS

- Generate HOPSET
- Create the CNR Load set
- Create the Aviation Load sets

CREATE HARD COPIES EW LIST AND SOI

- Extract data from ACES for EW List
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- CT3 Download SOI to DTD (SKL, ANCD)
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DELIVER FINAL PRODUCTS

- D-5 - File transfer completed SOI (Excel Format) to RTU, 52ID
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2. Equipment Testing

The NTC Commander has the authority to approve/disapprove all requests for testing spectrum dependant systems. Approved testing will in no way impede or inhibit training. As much advanced notice as possible is necessary to adequately staff and coordinate requests for assistance. Upon FORSCOM approval, all radio frequency emitters new to the NTC require spectrum testing and certification by NTC G-6 Spectrum Management.

The electromagnetic compatibility program has been established to protect NTC instrumentation, National Aeronautics and Space Administration (NASA) Goldstone Deep space tracking, China Lake Naval Air Weapons Station, surrounding areas and critical communications infrastructure from harmful interference. Compatibility testing of all Rotational units" radio frequency (RF) transmitters is mandatory. Rotational units introducing new equipment that has not been tested to ensure DD form 1494 compliance must set up a test date prior to integrating into the NTC training environment. All equipment requiring testing must be coordinated with the NTC SMD. If new test equipment is required that is not on hand at NTC, the training unit is responsible for purchasing the testing equipment for validation. The requirements for testing include the following:

- a. Verification of data provided on DD Form 1494. All systems must have at a minimum an experimental DD Form 1494 initiated. All other systems must acquire a waiver from FORSCOM and approved by the NTC for operation.
- b. Measurement of bandwidth for proper assignment.

- c. National Aeronautics and Space Administration Goldstone compatibility analysis.
- d. Processing and coordinating experimental DD-1494 frequency requirements.

3. *Communications Equipment*

A comprehensive list of all spectrum dependent systems be transmitted to the NTC G6 spectrum office (Irwin-G6-SMDiv@conus.army.mil) no less than 30 days prior to arrival. Updates and additions will be made as needed.