

Rapid Attack Identification Detection Reporting System (RAIDRS)

Attachment 2 – Test Scenario

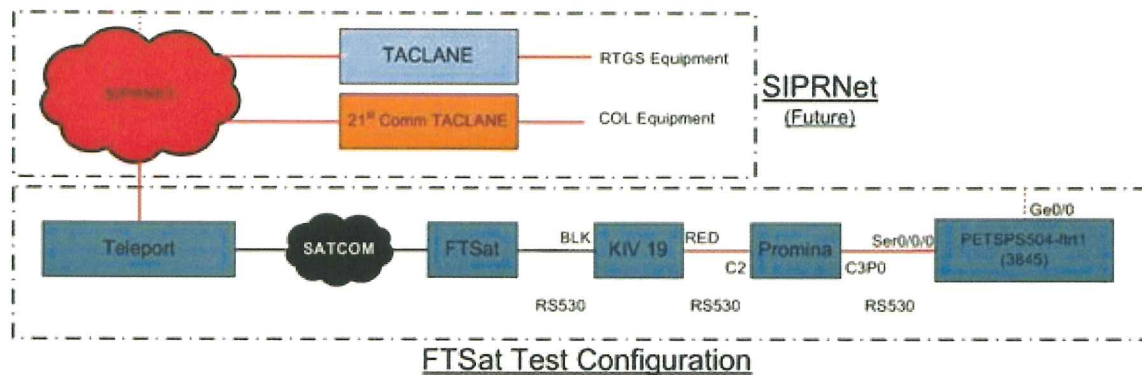
1: The purpose of this experiment is to verify the capability of a RAIDRS transportable sensor system to communicate with the Central Operating Location (COL) via SATCOM and SIPRNET. This experiment will be conducted by linking the transportable sensor and the COL subsystems through a single Fly Away Triband SATCOM Terminal (FTSAT), a X-band satellite transponder or Ku-band satellite transponder, a teleport, and SIPRNET.

A full duplex communications link will be established between the COL and the sensor subsystems via FTSAT, a teleport and SIPRNET.

Once communications are established, setup, system monitor and control, and basic detection and geolocation functions will be performed. The link quality will be measured and recorded continuously for the duration of the test at each SATCOM demodulator to isolate any communications link failures.

The links will be set up and tests will be run sequentially at the following data rates: 4352 and 8192 Kbit/s.

Encryption and decryption will be demonstrated over the external primary communication channel connected to the teleport terminal.



2: ERP -

Ku Band, 14.0 to 14.5GHz - 73.8 dBW = 23,988,329 Watts

X Band, 7.9 to 8.4 GHz – 70.8 dBW = 10,715,193 Watts

3: POC for Transmission Interference –

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