

# Scenario Automated Test tool for Radio Networks (SATRN™)

## General Description

The SATRN™ is a Microsoft Windows® based software product used to verify the interoperability of JTRS platforms in the emerging Network Centric Warfare (NCW) environment.

SATRN™ simulates an airborne host platform by communicating with a JTR set as an actual operational flight program would.

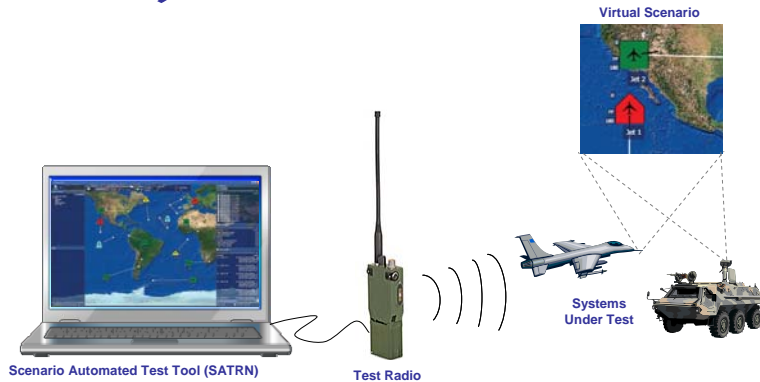
SATRN™ can plan simulated mission scenarios over geographic regions and inject tactical data onto a JTR network to be received by other systems under test on the JTR network.

SATRN™ will Construct and transmit both valid and invalid messages for the purpose of evaluating the responses of other receiving platforms under test.

SATRN test scenarios are stored so they may be repeated, and logs of message traffic at the host-to-terminal control and tactical data levels are created so they may be referenced in the event that a system under test fails to respond as required

## Benefits

- Provides a user-friendly interface to create and manage missions, platforms, repeatable testing scenarios and message analysis
- Compatible with standard map types and symbologies
- Extensive logging feature supports radio network verification and validation
- Appropriate for testing products through the product life cycle of new wireless technology



**Create Virtual Message Traffic with Easy Graphic Interface**

## Features

- Designed for IP-based waveforms
- Scenario based TADIL-J message injection
- Map-based situational awareness
- Customizable to missions and platforms
- Automated J-series message generation
- Useful for both training and field operations
- Modular design for flexibility, expansion, portability and ease of use.
- Open architecture can be configured with new wireless protocols
- Integrates with other M&S tools via DIS/HLA/TENA interfaces
- Applies to Wi-Fi and WiMAX networks



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