

# SIGNAL SCENARIO GENERATION Toolkit (SSG Toolkit)

## DESCRIPTION

- Realistic threat signal scenarios are needed for evaluation and training for Signal Intelligence (SIGINT) Systems
- Currently threat signal scenario development is resource intensive and time-consuming
- Signal Scenario Generation (SSG) Toolkit provides realistic signal generation integrated with current DIS/HLA simulation models

## KEY FEATURES of SSG Toolkit

- Communication systems
- Data from accredited data sources via Internet
- Artificial Intelligence enabled to automate the process
- Output in XML format or specifically tailored to OneSAF/OTB SAF and SigSIM
- Signal characteristics and timing linked to tactical events

## APPLICATIONS

- System evaluations for simulation-based acquisition of SIGINT systems
- Support fusion experiments
- SIGINT training and mission rehearsal

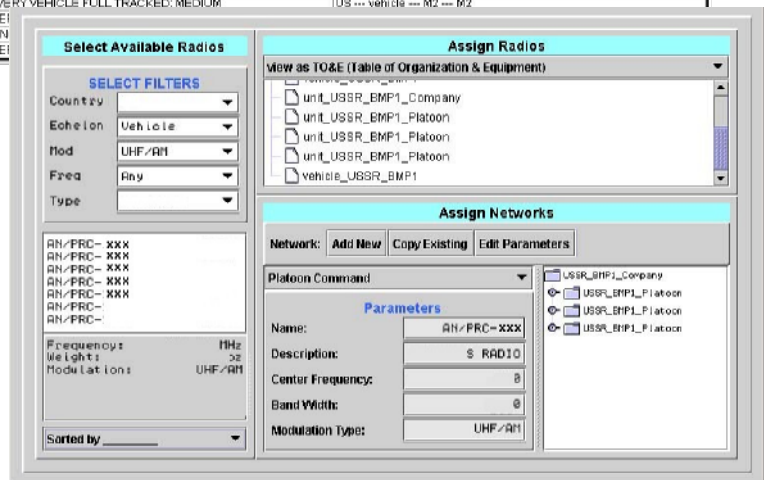
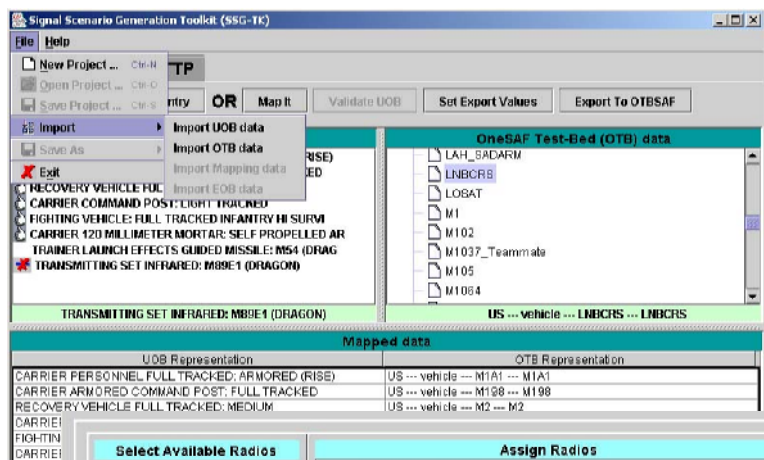
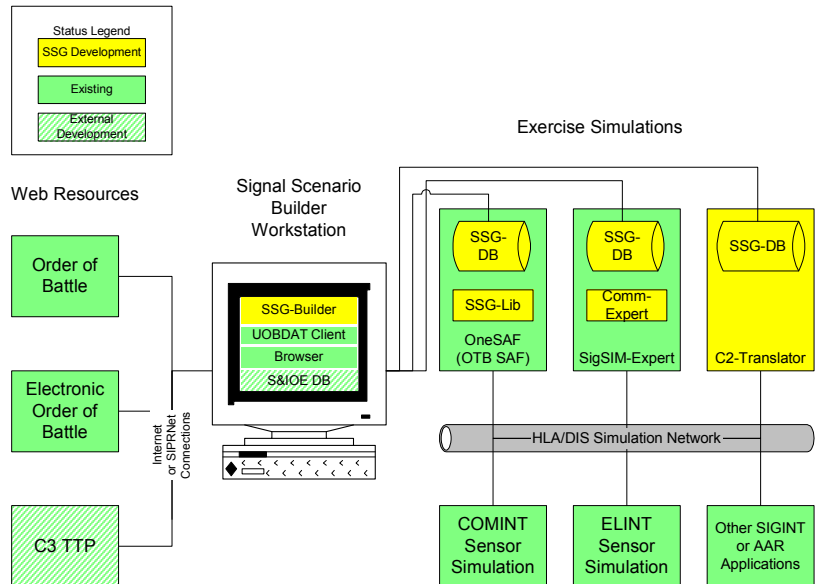
## SCHEDULE

- Demo SSG Components for OTB SAF completed in 2002
- Initial Capability -- Early 2004

## ACKNOWLEDGMENT

- Development supported by US Army RDECOM CERDEC - Intelligence and Information Warfare Directorate (I2WD) under an Army SBIR contract

## Signal Scenario Generation Process with SSG Toolkit



**OptiMetrics, Inc.**  
Research & Engineering

3115 Professional Drive  
Ann Arbor, MI 48104-5131  
Tel. 734/973-1177 Fax 734/973-1199

Visit our web site:  
<http://www.OptiMetrics.org>  
Or email us: [info@OptiMetrics.org](mailto:info@OptiMetrics.org)