CEESIM Transformed
Delivering The Most Advanced Simulation Architecture and Capability

Visualization Tools Increase User Productivity
- 3-D visualization of threat domes
- Range/bearing from emitter to SUT graphically displayed
- 3-D emitter field-of-view
- Drag & drop placement of platforms/emitters on the gaming area
- Simplified emitter creation with enhanced emitter visualization
- Emitter preview graphically displays programmed waveforms

Validate threat models and scenarios as they are created using a programming workstation

Industry leading technology provides the most advanced, highest performance simulator on the market

Direct Intelligence database import reduces workload
Optimized Windows look and feel maximizes productivity
COTS Server Based DGS Emitter Modeling Engine simulates latest generation threat radars

Visual Maintenance Application

World Class:
- Mission Analysis
- Integration Support
- Post Delivery Support

CEESIM-VPX
- Provides a wide range of system configurations
- Generates true to combat test environments
- Delivery in 12-18 months depending on configuration

VPX RF Packaging Provides the Best Performance and Value
- Expands CEESIM capabilities
- Industry leading RF performance
- Direct digital synthesis
- -70 dB spurious (typ)
- -85 dBc/MHz broadband noise (typ)
- Highest pulse density per source
- Scalable and configurable solution
- Plug and play auto configuration
- Simple expansion in the field
- User reconfigurable
- Reduced spares inventory

Compact CEESIM-VPX
- Full CEESIM capability in the space of a synthesizer
- Natively utilize CEESIM scenarios and emitter models
- Complete suite of CEESIM modeling tools
- 3U high tabeletop or 19" rackmount
- Delivery in 6 months or less
Modern Threats are evolving, is your Stimulator able to REACT?

Introducing CEESIM Server DGS and our new Enhanced Emitter Modeling

Server Digital Generation Subsystem (DGS) provides the basis for advanced emitter modeling in the CEESIM that can grow and evolve as the threat environment changes. It provides the platform for enhanced emitter modeling such as:

- Graphical emitter definition that allows the operator to predefine a palette of task waveforms and then “drag-and-drop” tasks onto a frame to easily create complex variable framed emitter waveforms
- Emitter behavioral modeling that includes the ability to model threat radar scheduler reactions to the simulated environment
- Open APIs allow integration of Customer tools or Government models
- Integration with transition Logic Maps that control waveform generation, Algorithms and Operands
- Integration with Closed-loop simulators which emulate threat radar receiver signal processing of jamming and react in a threat faithful way

Server DGS offers our “True to Combat” digital pulse engine in a Commercial-Off-the-Shelf (COTS) Server-class PC

Real-time emitter modeling has migrated from custom hardware to an all-software version of the DGS that runs on a COTS Server.

- Lower cost
- Industry leading emitter modeling
- 8 MPPS with expansion to 16 MPPS
- Easier to maintain / Improved MTBF
- Supports full spectrum of interfaces for laboratory synchronization and control

Software Tools to increase testing efficiency and lab personnel effectiveness

- Windows Look and Feel GUI
  - Simplified editing windows
  - Drag and Drop complex waveform creation
  - One-Click calibration function
  - Enhanced filtering & reporting

- Integrated CEESIM Maintenance Application
  - Web-based graphical overview & control
  - Calibration and Fault test Scheduler with pause/Interrupt/resume features
  - One-Click calibration function
  - Enhanced filtering & reporting

- Database Import Tools Increase Productivity
  - Direct Import of Waveform Descriptor Word (WDW) data into CEESIM
  - EWIR Mode Line Import Using a SW plug in for STRIKE FORCE+
  - National Database import through XML

Maximize the value of your existing systems with cost effective technology insertions

- Upgrade your control computer and software
  - Access all the latest CEESIM software tools
  - Meet all security requirements (RMF/JSIG)
  - Minimal down time for upgrade

- Upgrade your emitter modeling capability with our Server Digital Generation Subsystem (DGS)
  - Provides proven CEESIM emitter modeling capability
  - Executes existing scenarios and emitter libraries
  - Future upgrades for advanced emitter modeling capability through software updates
  - Addresses all obsolesce issues with current DGS
  - Easier to maintain
  - Improved MTBF
  - Supports all existing laboratory interfaces
  - Minimal down time for upgrade

- FLO Upgrade Kit/CEESIM RF Source Synthesizer Replacement
  - Bring synthesizer performance to your FLO-based CEESIM
  - Improved frequency accuracy
  - Improved frequency stability
  - Enhanced Chirp (1GHz)
  - Digital Synthesizer vs. Analog
  - Improved Reliability and maintainability
  - No calibration required
  - Direct Form/Fit/Function replacement for the FLO
  - Quick, Efficient, Fast—Low Risk with Minimal lab downtime