

SCS: Synchronization & Control System

Our Mission:
To provide products to control testing of integrated avionics systems

The Need:

Robust test facilities require synchronized multi-spectral signals (RF, IR, EO) under coordinated control (along with data logging) in order to test and evaluate modern systems employing both on-board and off-board technology. SCS synchronizes the Combat Electromagnetic Environment Simulator (CEESIM), Real-time IR/EO Scene Simulator (RISS) and other simulation equipment for a complete multi-spectral test environment.

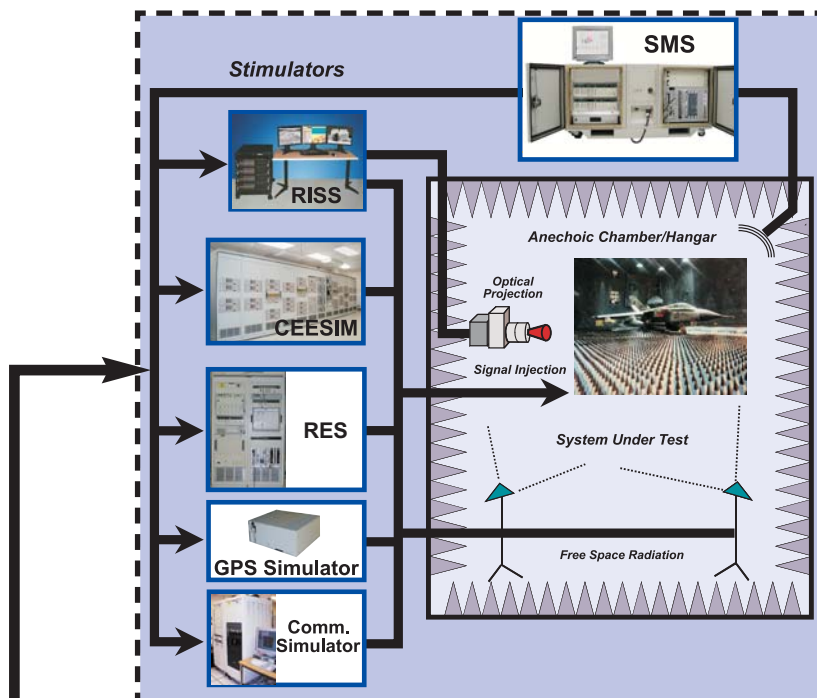
Experience:

Northrop Grumman Amherst Systems has been a leader in RF and IR/EO stimulation and facility control systems for more than 35 years. We have successfully integrated our own and other vendors' stimulators in some of the world's most sophisticated spreadbench and installed system test facilities.

The Solution:

Our Synchronization & Control System (SCS) provides a complete set of tools that manage and control integrated avionics testing:

- Master Test Controller
- Synchronized Timing System
- Data Network Infrastructure
- Multi-Spectral Script Generation Tools
- Composite Script Editing
- Menu & Graphical Input
- Scenario Visualization
- File Management
- Stimulator File Interface
- Test Pack Creation
- Real-time Synchronization of all Test
- Real-time Scenario Visualization Stimulus
- Mission Model Support



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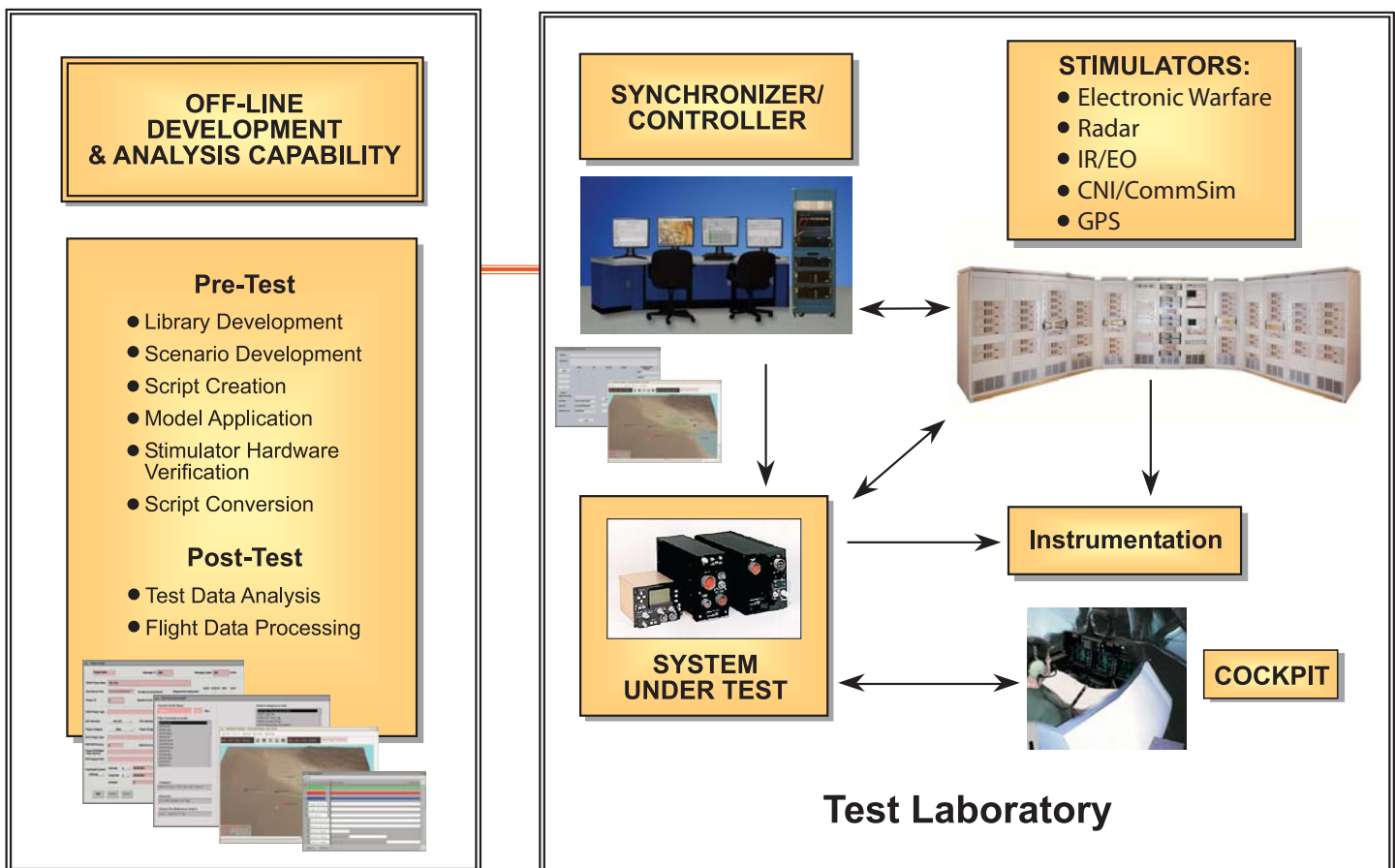
SCS Major Components:

- Development and Analysis (D/A) capability provides off-line script development and analysis functions
- Synchronizer/Controller (S/C) provides centralized test control and stimulator synchronization
- Scripts can be developed manually or using weapon systems models
- Visualization can be used during both D/A and S/C operations
- Multiple D/A & S/C sites are supported
- Data Management capability insures file integrity and provides simple, seamless scenario file transfers
- Multiple computers can be linked for improved performance and multi-user capability
- Centralized RAID file storage

Key Features:

- Suitable for laboratories and chambers
- Support for Development Test (DT) and Operational Test (OT)

SCS Architecture



For more information, please contact:

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