

2023 Spirent Federal Training Seminars



East Seminar Huntsville, AL Wed - Thu, March 8-9



West Seminar Los Angeles, CA Tue - Wed, March 14-15

Planned Agenda – Subject to Change

denotes a hands-on workshop where attendees will use a software license download to build their own scenarios on their laptops while the Spirent engineer demonstrates

Day 1:

Day 1:	
Time	Sessions
7:30	Registration & Continental Breakfast
8:00	Welcome and Orientation
8:10	GNSS Program Updates
9:00	Portfolio Overview
9:50	Break
10:00	Scenario Generation 1: GNSS Simulation Fundamentals
	Basic set-up and connecting to a simulator
	An introduction to simulation techniques
	An introduction to creating GNSS simulation scenarios
	Scenario data and time, satellite constellation, and vehicle motion
10:55	Scenario Generation 2: Building a Realistic Test Environment
	 Creating realistic values for simulation parameters, including:
	satellite antenna patterns, vehicle antenna offset & patterns, multipath, &
	terrain obscuration
	Flex power & visualization tools
11:50	Lunch
12:50	Scenario Generation 3: Interference Simulation
	GTx embedded interferers and signal sources
	Adding jamming and custom waveforms
	SimIQ custom waveforms for GTx & flex license option
1:45	Scenario Generation 4: Simulating Spoofing Threats
	Scenarios with duplicate PRNs
	Spoofing scenarios using multiple RF outputs
	New SimGEN spoofing tool
2:40	Break
2:50 -	Scenario Generation 5: Utilizing Remote Control and Motion
3:45	Remote operation & user motion files
	Using data streaming for remotely monitoring truth data
	Timing requirements for remote motion
	New remote control and integration tool employing NI LabVIEW
All day,	Open Lab in the Break-out Room – Engineers Available All Day
8-5	Calibration information
	Ask your question to our engineers for individualized assistance on
	Spirent solutions

DAY 2:

DAY 2:	
Time	Sessions
7:30	Continental Breakfast
8:00	Field Testing
	RF Record & Playback
	 Why & when to use a record & playback system
	 Multi-sensor capability
	 Data collection with a GSS6450
	 Recreating the environment back in the lab on a GSS9000
	Field Simulation
	 Product concept & use cases
	 In-the-field spoofing
	Case study & results
9:15	Testing a CRPA System
	Simulating & setting up multiple elements
	Interference/jamming
	• Spoofers
	New CRPA configuration tools
	Working with IQ data in wavefront system
10:30	Break
10:40	Anechoic Chamber Testing
10.40	Traditional chamber testing
	Zoned chamber testing
11:50	Lunch
12:50	High Dynamics Simulation Testing for FRPA & CRPA Systems
12.50	Examples of high dynamic test applications
	6DOF trajectory generation, translation, & employing the check motion
	utility
	Understanding latency and the introduction of a 2 kHz SIR Size lating particular and interest in the second
	Simulating spinning vehicles
	RF performance and signal fidelity
1:50	Augmenting GPS
	Inertial systems - EGI & IMU Testing
	Testing LEO navigation systems & the new SimORBIT
	SBAS, GEO+
3:00	CUI Session opens – must be US citizen and show government-issued photo ID to
	enter. Electronic devices must be turned off and put away at all times—no recording
	or photography allowed.
3:15 –	GPS Resiliency – CUI*
4:30	Y-code & SAASM
	M-code
	 Including updates for RMP and ISC support
All day,	Open Lab in the Break-out Room – Engineers Available All Day
8-5	Calibration information
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