Intelligent EW Systems for Complex Spectrum Operations

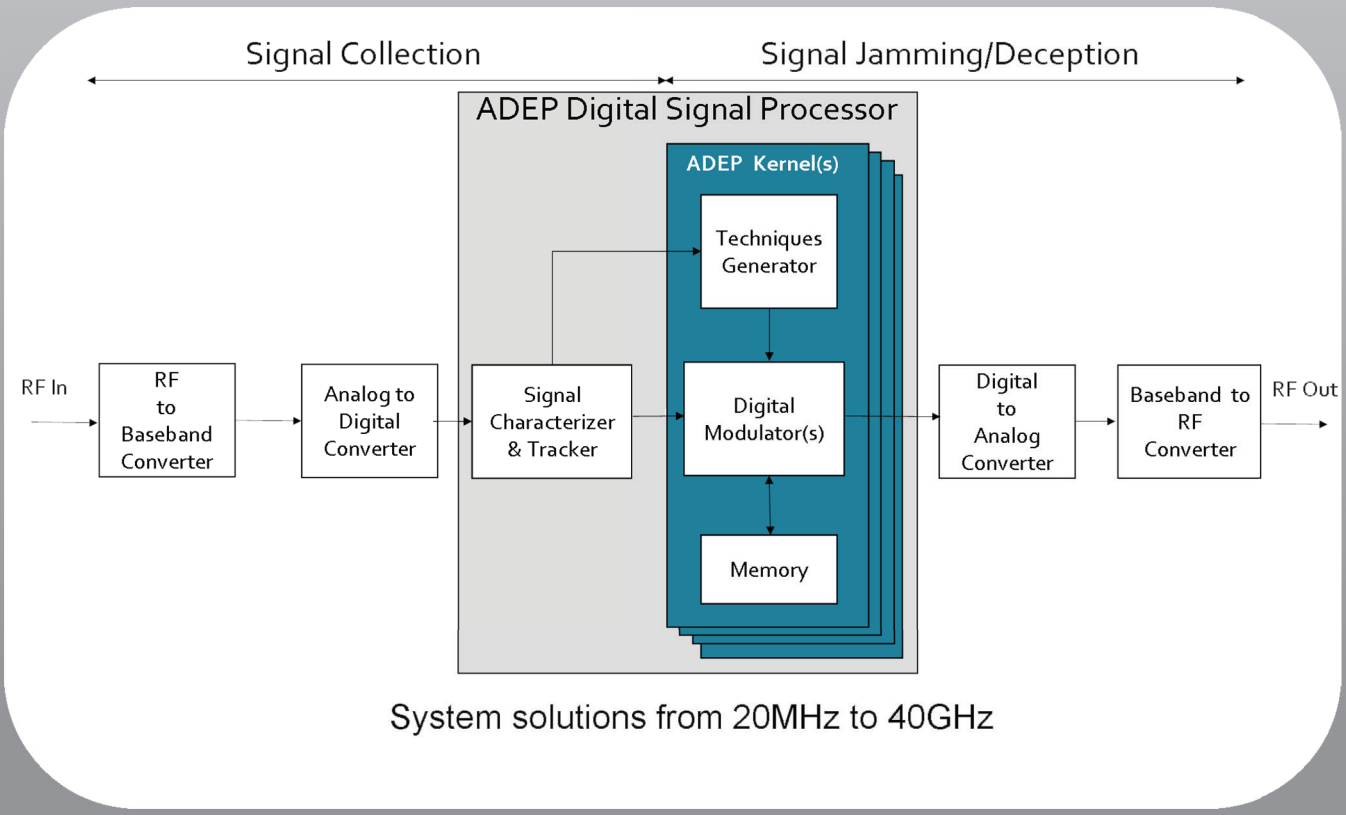
ADEP™

Dynamic Engagement Products for Configurable Operational Response & Advanced Range Solutions

SPEC

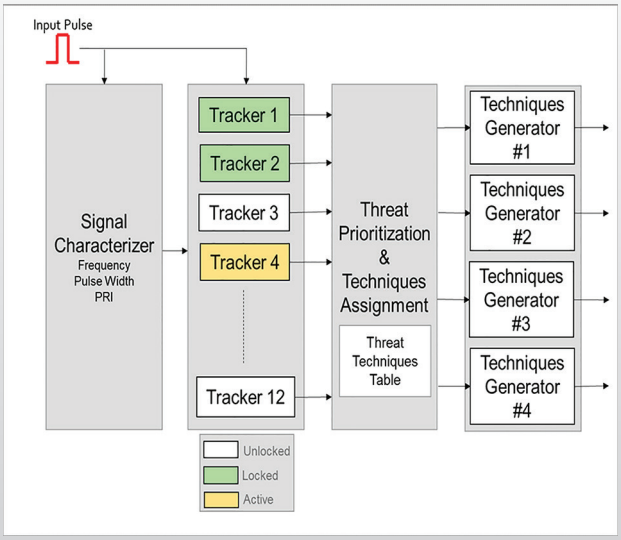
SPEC Agile Digital Effects Processor (ADEP™) Product Family

ADEP System Architecture



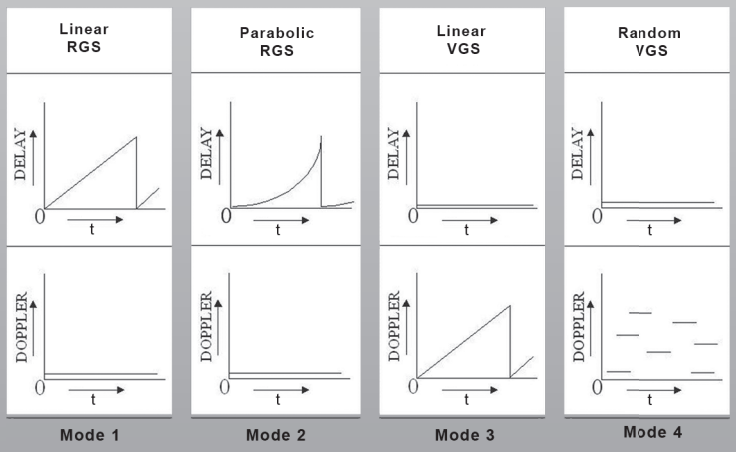
ADEP Threat Classification and Engagement

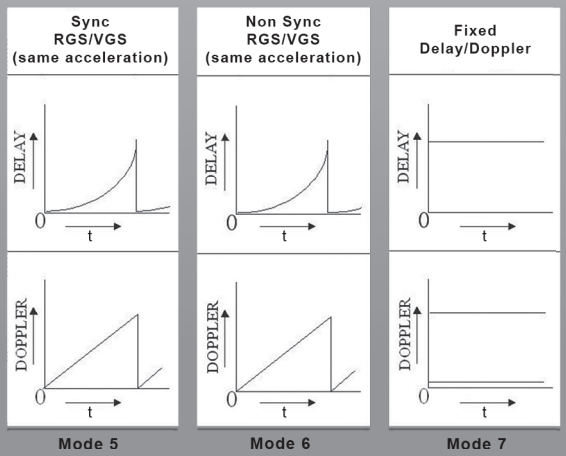
- Classify (track or filter) up to 12 targets simultaneously
- Discriminate based on frequency, pulse width, PRI and amplitude
- Techniques assigned to individual targets
- Prioritized engagements
- Engage up to 4 targets simultaneously
- User confirmation of target classification
- Agile modes available



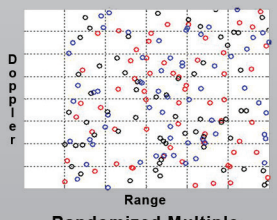
ADEP EA/EP Coherent Techniques Generation

Classical DRFM Techniques

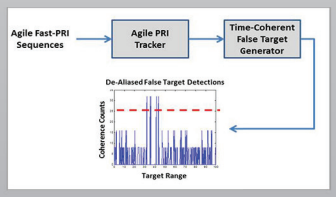




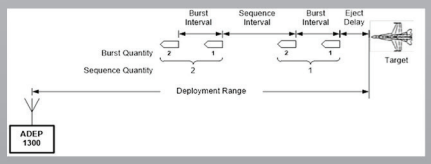
Advanced DRFM Techniques



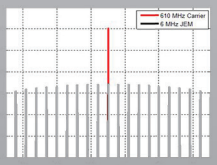
Randomized Multiple False Targets



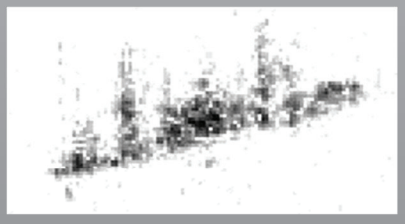
Target Coherent Agile PRI



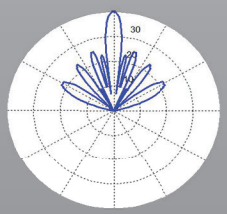
Chaff Simulation Mode



Jet Engine Modulation



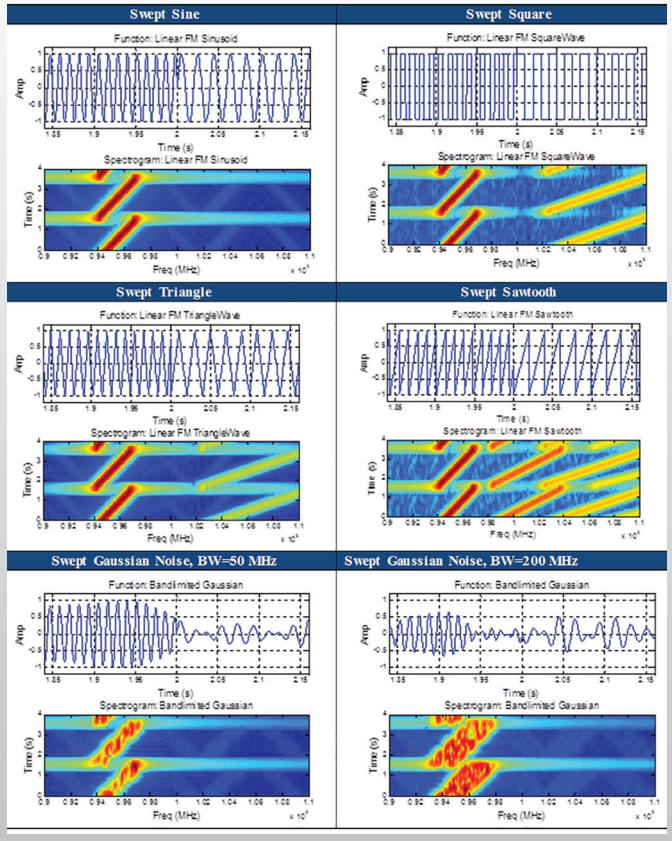
SAR/ISAR Scene Generation



Side Lobe Techniques

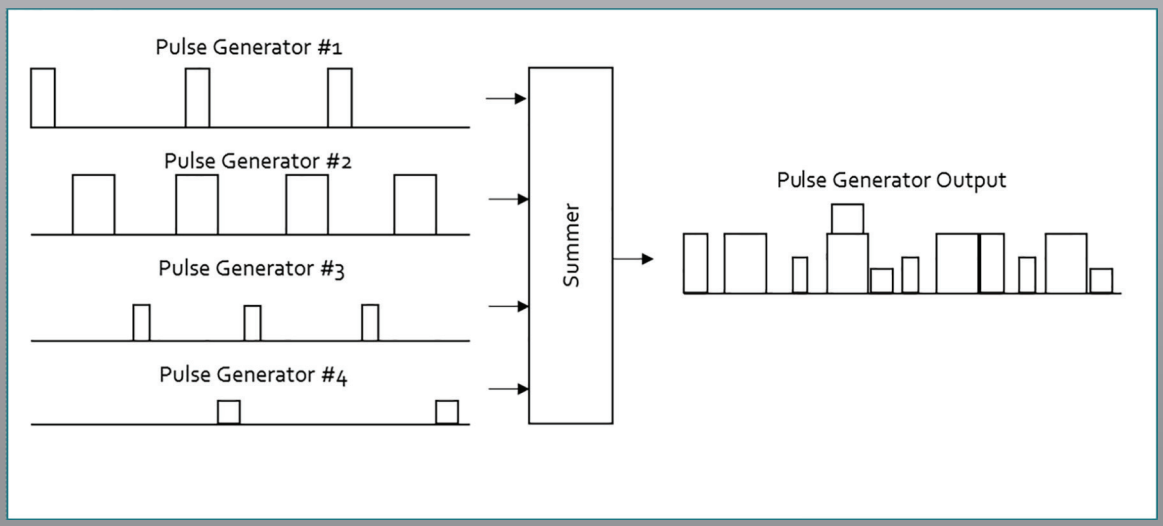
ADEP Radar/Comms Non-Coherent Jamming

- Modulation Types
  - Swept sine wave
  - Swept square wave
  - Swept triangle wave
  - Swept sawtooth wave
  - Swept Guassian noise
- User has full programmable control for CW & pulse AM, FM, PM and noise modultation techniques



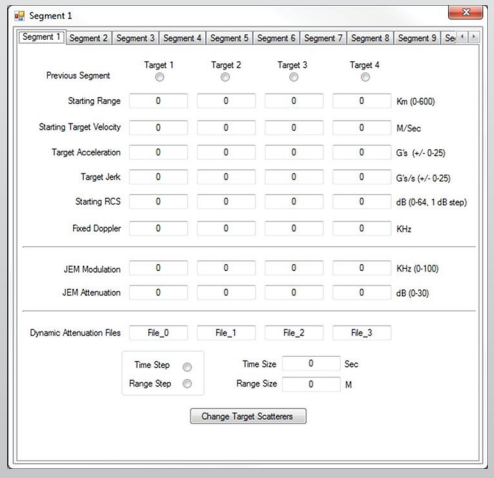
ADEP Radar Simulation

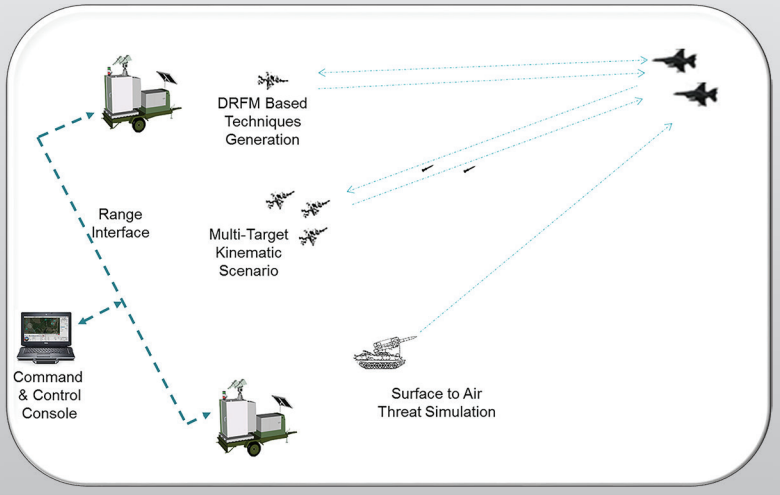
- Multi radar pulse generation within instantanous bandwidth
- User programmable relative start time, pulse width, PRI, frequency, amplitude, and scenario driven customization
- Optional power amplifiers and directional antennas for threat simulation or deception



ADEP Scenario Generation

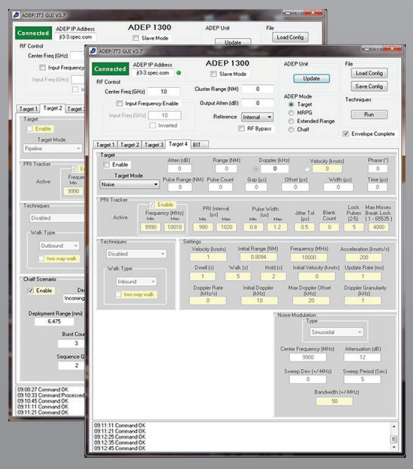
- PC Windows based scripted Target Profile scenario execution
- Target Profiles are groupings of "Segments"
- Each Sement specifies "Events" that occur at specific time or ranges
- Event parameters include: target range, velocity, acceleration, jerk, RCS, Doppler, Swerling, environmental dynamic attenuation, and scenario driven customization





ADEP Remote Control and Monitoring

- Dynamic system control of all product features can be performed locally or remotely
- Remote Windows based monitoring of input/output, techniques, spectrum, and integrated effects
- Remote recording of streamed PDW data



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