

Benefits & Features

- **Advanced Guiting for all participants**
- **NSA Type 1, 4+ channel MILS Encryption**
- **OFF Hooks for OEM A/C Integration**
- **DoD 5GATW LVC training waveform with full cohabitation in signal and space with Combat waveform**
- **Advanced models for sensors / platforms / weapons / effects**
- **Advanced weapon fly-outs and Real Time Kill Notification / Adjudication**
- **CGF Integration for Big Tac, NGTS, MACE, others**
- **MBSE Design to future proof system and avoid vendor lock**
- **Untethered and tethered range compatibility, pod and internal mount configurations**



Synthetic Inject to Live (SITL) LVC Training: *In Fighter Cockpits Today. SLATE Validated, Flight Tested.*

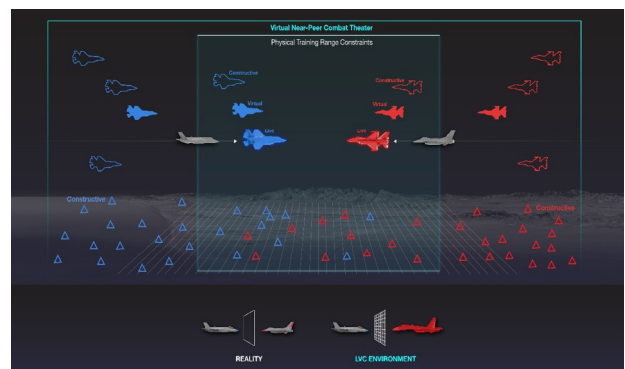
Advanced Guiting. Replicating the Near Peer threat in capability and density. At LFE scale.

SITL LVC brings the realism of the near-peer fight to the cockpits of 4th- and 5th-generation platforms in the only approach that closes proficiency gaps in executing advanced tactics required to win decisively in the future. This is accomplished using an NSA Type I encrypted MILS open architecture, Industry standard protocols and the fifth-generation advanced training waveform (5GATW) U.S. Government-owned dedicated training waveform.

Cubic's SITL-LVC system is the ONLY solution available today that has successfully integrated Simulators and Constructive injects with Live Fleet aircraft Operational Flight Programs (OFF) to render advanced threat environments in cockpit displays on current DoD operational training ranges.



Advanced guiting capability presents aircrew with threat data across all sensor displays (RADAR, RWR, EO/IR, Others) in lieu of actual target characteristics from other LVC participants.



Delivering the Near Peer Threat environment for Advanced Fighter Integration Training

Constructive Red Air
12 x Su-27

Live Red Air
4 x F-16 (guised Su-30)
2 x F/A-18 (guised Su-30)

** Red Vipers and Hornets electronically "guised" as Su-30; including sensors and weapons*

Constructive SAMS
1 x SA-6
5 x SA-8
3 x SA-10
3 x SA-20
3 x SA-22

** Constructive air and surface threats mitigate limits of airspace boundary*

Virtual Blue Air
2 x F-16 sims
2 x F/A-18 sims

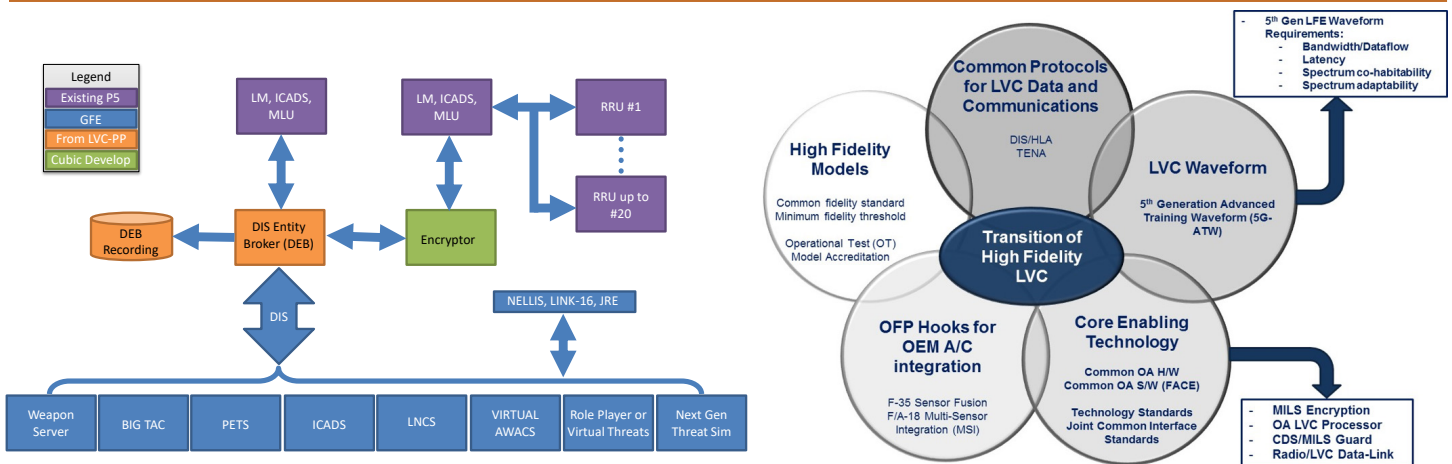
Live Blue Air
6 x F-15E
2 x F/A-18
2 x EA-18

** Synthetic injects indistinguishable from live threats on blue Strike Eagle and Hornet sensors: Radar, IFF, RWR, and FLIR*

Constructive Blue Air
2 x F-35

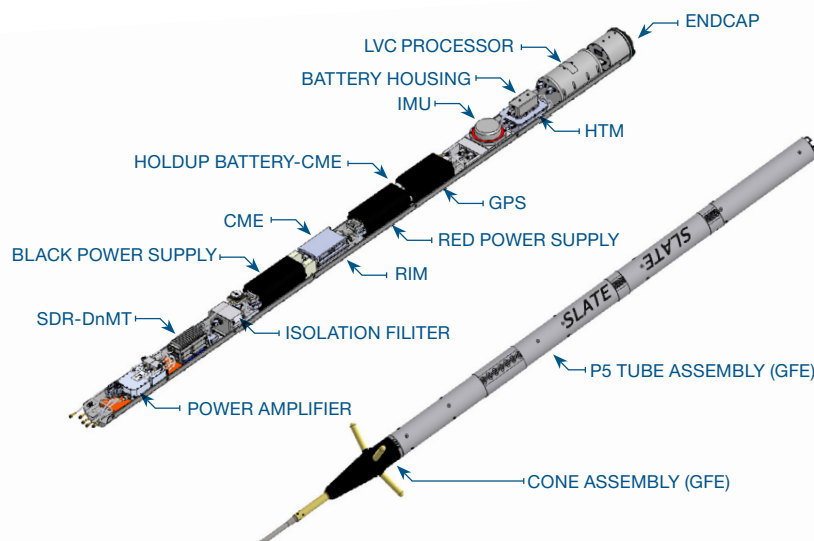
- ✓ Red-air density tripled
- ✓ NTTR enhanced with peer threats
- ✓ NTTR geography constructively extended
- ✓ Advanced threat guising with no OFF mod
- ✓ Govt-owned 5GATW waveform
- ✓ MILS with NSA Type-1 Encryption
- ✓ Validated CDS Rule Set
- ✓ RTKN for live blue
- ✓ 4:1 constructive to live sortie ratio (400 / 97)
- ✓ 642 weapons events

SLATE Ground System



SITL LVC requires all five capability pillars in order to deliver the advanced guising and near-peer threat environment at large force exercise (LFE) scale.

SLATE Airborne System



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