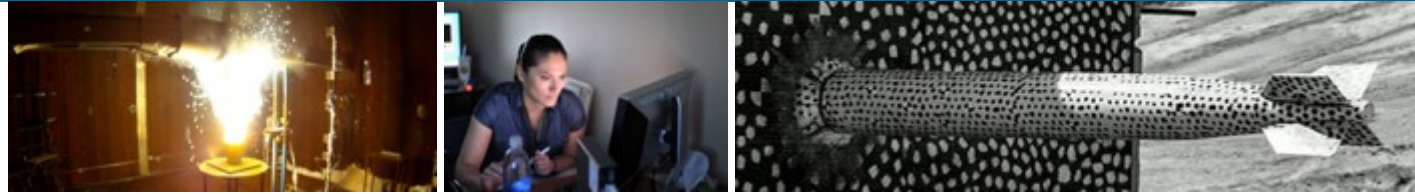


# OPSL (Open Platform Software Library) 2020 Updates



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# Overview

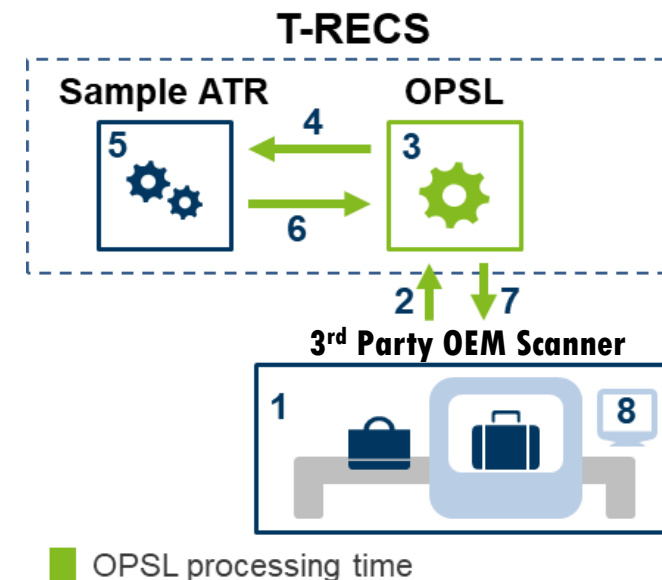
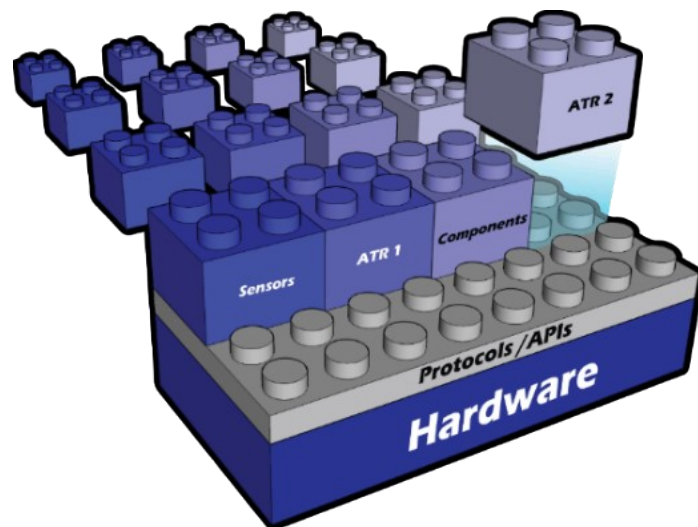


**Space:** Implementing a platform for an open architecture for aviation security.

**Problem:** Need to deploy open architecture systems capable of fielding 3<sup>rd</sup>-party applications like threat algorithms to improve adaptability and cost-effectiveness of aviation security operations.

**Solution:** The Open Platform Software Library (OPSL) developed allows for standardization and modularity enabling plug-&-play solutions.

**Results:** Recent demonstrations using laboratory testing with a 3<sup>rd</sup>-party OEM scanner and GUI have proven that overhead time is within operational goals (~1.31s).



# Recent Accomplishments



- Demonstration with IDSS using three configurations using physical bag forms to mimic stream of commerce
  - Scanner -> OPSL Server
  - Emulator -> OPSL Server -> Emulator GUI
  - Scanner -> OPSL Server -> Scanner GUI
- Demonstration with AIT with 3<sup>rd</sup> party algorithms from the Kaggle competition
- First phase of “wrapping” ATR from OEM (IDSS) and 3<sup>rd</sup> party vendors to be OPSL-compliant
- Risk-based Security integration for ATR selection with OPSL

TSA, Heathrow, AviNor, and 14 other agencies announced support for an open architecture technology strategy:

“We are pleased to support the Open Architecture for Airport Security Systems initiative. Through this initiative we commit to working with our partners to open our hardware and in doing so, broaden the market and safely provide new entry paths for collaborators.”

“*...OEMs and 3rd-parties parties will implement an Open Platform Software Library (OPSL) to provide inputs and outputs to their algorithms. This will act as a wrapper and enable communication between one OPSL wrapped algorithm and any other OPSL wrapped algorithm or software component.*”

# Planned Activities



- Upcoming integration using Analogic systems
- Further collaborations with PNNL using next-generation body scanning systems
- Cybersecurity Compliance and Vulnerability Discovery
- Extend metrics for system performance
- Planned field operation pilot by Summer 2021 for AIT and 3<sup>rd</sup>-party ATRs
- Training sessions for developers
  - Please message me if you are interested in attending or learning more



Questions?

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