

Adversaries adapt. Can your AI?

Real-time threat assessment and prioritization empower operators to make confident decisions under pressure. **Even without ML expertise, operators gain insights from the RTK with unmatched speed and precision.** The system adapts on-site to its specific environment and mission, handling the heavy lifting of complex analysis, online or offline for continued battlefield advantage. This allows warfighters to **focus on the mission, not the data.**

UPDATE

The RTK optimizes the model on-device via a user-friendly interface for immediate redeployment.

DEPLOY

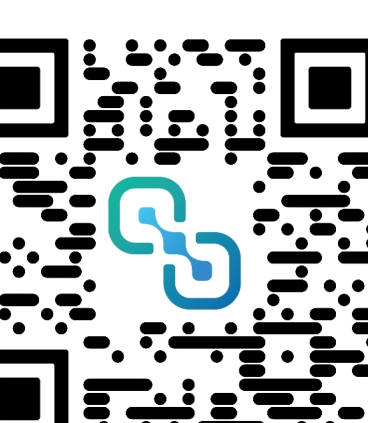
The updated model is deployed onto the low SWaP device as a highly efficient executable that can identify new and modified threats.

TUNE

Operators tune and train the model to their mission using the RTK interface, adapting the model's performance to specific situations.

COLLECT

Warfighters utilize the on-board AI, running on their deployed devices, to gather new data and gauge the system's performance.

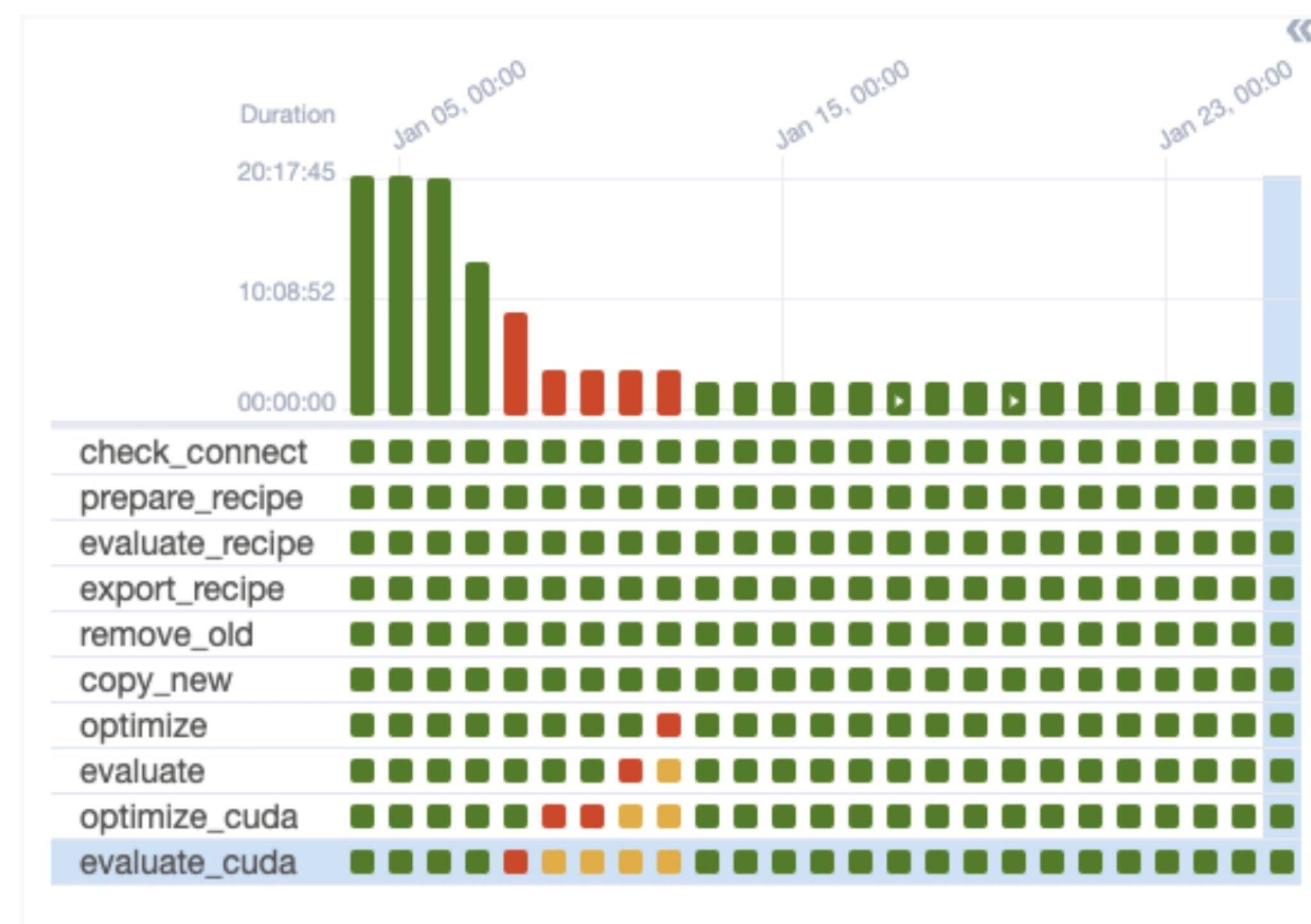


Latent AI Ruggedized Toolkit (RTK)

The RTK runs a mobile version of the Latent AI Efficient Interference Platform (LEIP), an all-in-one AI development kit that empowers developers of varying skill levels to build secure models ultra-fast, with seamless field updates.

Features

- ▶ **Ruggedized Laptop**
Military-grade hardware built to withstand harsh environments.
- ▶ **Mobile LEIP Software**
Mobile tools usable by non-machine learning experts to update, retrain and redeploy AI models.
- ▶ **Flexible Integration**
Easily integrated with partner data providers, like Esri, and existing MLOps tools.
- ▶ **Fast Retraining**
Deploy updated AI models in minutes, not hours.
- ▶ **Real-time Diagnostics**
Monitor model health and performance.
- ▶ **Offline Operations**
Sustain mission capability in dynamic environments with limited or no bandwidth.
- ▶ **Ultra-Efficient AI**
AI runs 30x faster, reducing storage needs up to 10x.
- ▶ **DoD Certified**
Secured AI pipeline meets the government's stringent requirements (IL5/IL6 compliant) for handling sensitive data.



The RTK allows non-expert users to interpret results gathered, label that data on-site, and then retrain and redeploy all in the field.

LEIP and the RTK are actively used on multiple US Department of Defense (DoD) programs. The solution also works with Esri's ArcGIS system to enable faster decisions and deeper geospatial insights, especially in remote locations with bandwidth limitations.

How RTK works with ArcGIS



1. Select imagery and features, then export for LEIP's advanced model training.

2. Analyze data in ArcGIS for easy training and model deployment. No data transfer through the cloud, ideal for remote locations.

3. Deploy trained models to sensors and drones for faster decisions and deeper geospatial insights.

4. Analyze results, make adjustments through a simple interface, and retrain & redeploy AI models on-device.

