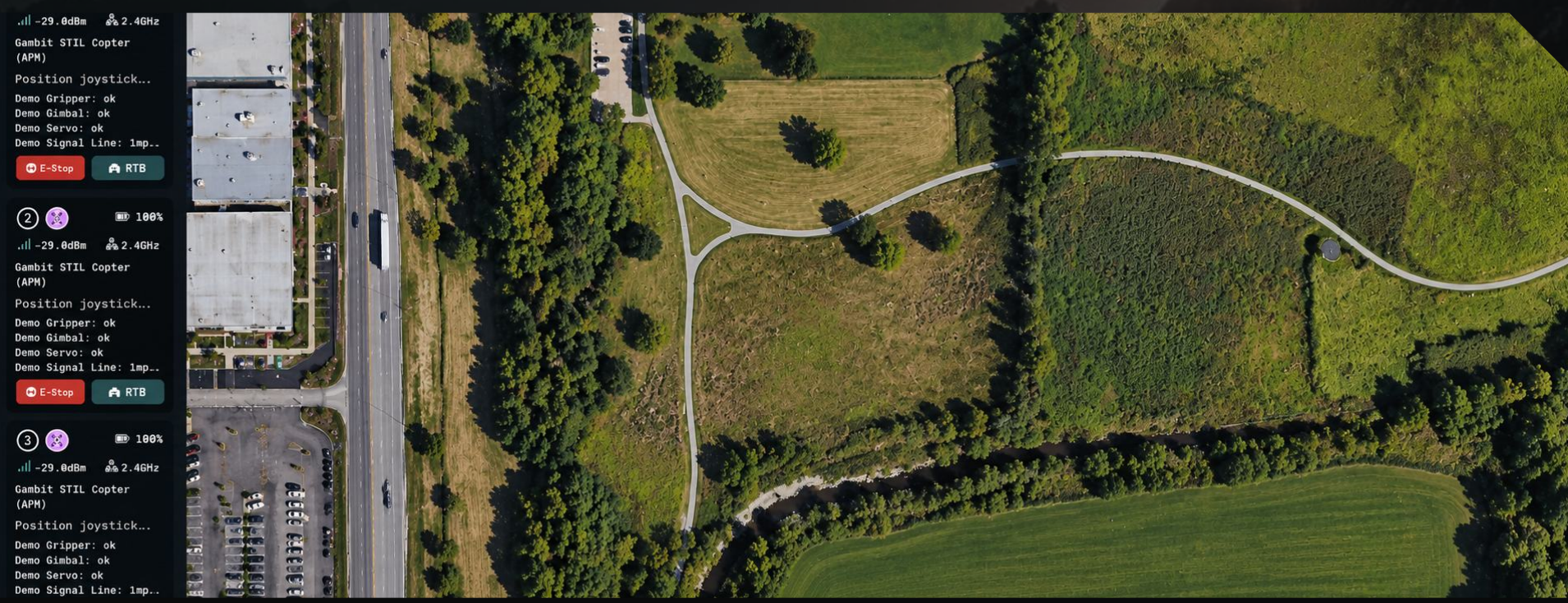
VICTUS

PhantomX™

CONTESTED AUTONOMY - ORCHESTRATE

PhantomX™ is VICTUS's unified ML / AI-Ops API and SDK — one platform to define, customize, orchestrate, train, and deploy ML models across pluggable compute and data backends. Every VICTUS ML product runs on the same control plane, and the same ML-Ops layer is available to external customers. A single stable /v1 contract routes each job to whatever backend is configured — localhost, subprocess training, or Palantir Foundry/Maven — with zero route or SDK changes.



01 CORE CAPABILITIES

Rest Control Plane

- Per-model-type JSON-Schema config, async job lifecycle (202 + poll), pagination, RFC 7807 errors.

Pluggable Providers

- Compute / Data / Auth selected by phantomx.yaml — local, subprocess, and Foundry/Maven.
- Swap with zero route changes.

Durable Persistence

- SQLite / Postgres doc store +content-addressed blobs.
- Cascade delete, job recovery, idempotency keys.

SDK + Generated Clients

- Python SDK and TypeScript client, both from one OpenAPI 3.1 spec — schema-identical types.

02 MODE LIFECYCLE

STEP 01
Define
Create a project against a model type — vision, state-estimation, or text.

STEP 02
Configure
Schema-driven training config, validated per model type. UIs render the form dynamically.

STEP 03
Train
Launch async job; poll status / metrics / logs; stop on demand. Real local or Foundry/Maven training.

STEP 04
Export
Self-contained artifact package — best.pt, results.csv, model.onnx, VOXL2 export.

STEP 05
Deploy
Same routes, any backend — local, subprocess, or Palantir Foundry/Maven.

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WHERE PhantomX™ LIVES

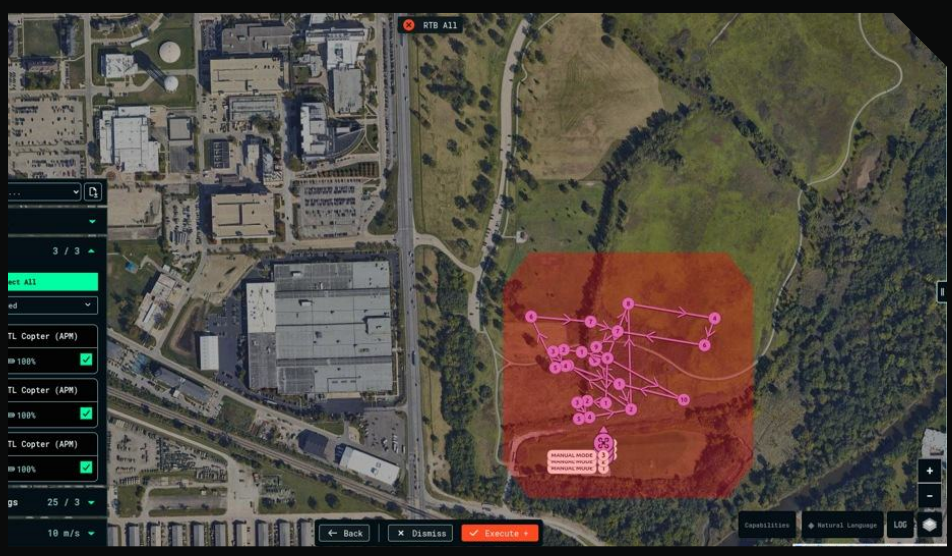


Control Plane, Not Compute

A GPU-free container orchestrates jobs; training executes on the selected backend, artifacts returned over /v1.

One Integration Surface

One /v1 contract serves internal consoles and external customers; products and backends swap with zero route changes.



ASYNC JOB LIFECYCLE

Launch async job
202 + POLL

Poll
STATUS / METRICS / LOGS

Export
SELF-CONTAINED ARTIFACT PACKAGE

best.pt | results.csv | model.onnx | VOXL2 export

PLATFORM PROFILE

CONTROL PLANE	Python 3.11 | no GPU / torch
PERSISTENCE	SQLite or Postgres + blob store
CONTRACT	Stable /v1 | OpenAPI 3.1
WIRE	camelCase JSON | REST
AUTH	Bearer-token | hashed | scopes
PACKAGING	Docker + Compose | opt. TLS
BACKENDS	local | subprocess | Foundry/Maven

MODELS UNIFIED

PhantomSIGHT™	ATR | vision – decision, segmentation
PhantomNAV™	NAV | state-estimation – synthetic GPS

DEPLOYS ANYWHERE

Developer laptop – on-prem – enterprise cloud and Palantir Foundry/Maven

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■ NEXT STEP: SCHEDULE A CAPABILITY BRIEF →

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