

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.
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02 MODE LIFECYCLE

STEP 01	STEP 02	STEP 03	STEP 04	STEP 05
Define Create a project against a model type — vision, state-estimation, or text.	Configure Schema-driven training config, validated per model type. UIs render the form dynamically.	Train Launch async job; poll status / metrics / logs; stop on demand. Real local or Foundry/Maven training.	Export Self-contained artifact package — best.pt, results.csv, model. onnx, VOXL2 export.	Deploy Same routes, any backend — local, subprocess, or Palantir Foundry/Maven.

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

DEPLOYS ANYWHERE
Developer laptop -- on-prem -- enterprise cloud & Palantir Foundry/Maven

MODELS UNIFIED

PhantomSIGHT	ATR vision – decision, segmentation	
PhantomNAV	ATR vision – decision, segmentation	

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.

NEXT STEP — SCHEDULE A CAPABILITY

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