

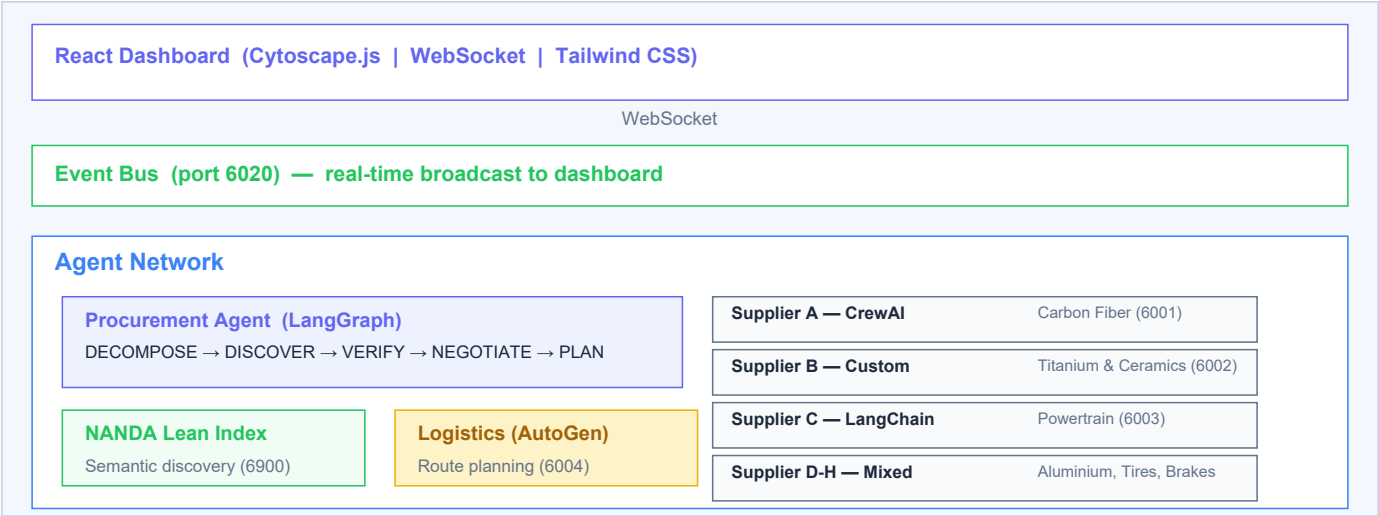
OneClickAI

Autonomous Supply-Chain Coordination with NANDA-Powered Agent Discovery

The Problem & Our Vision

- Global supply chains involve dozens of specialised suppliers, each with different APIs, capabilities and compliance standards. Coordinating procurement manually is slow, error-prone and opaque.
- OneClickAI lets a user express a single high-level intent (e.g. "Build a high-performance sports car") and autonomous AI agents handle the entire procurement lifecycle: decompose the need into parts, discover qualified suppliers, negotiate prices, place orders and plan logistics — all in real-time.

System Architecture



Built on the NANDA Protocol

AgentAddr (Lean Index)

Each agent registers a ~120-byte pointer in the NANDA Lean Index containing its ID, skills, facts_url and region. The Index supports semantic search via OpenAI embeddings for intent-based discovery.

AgentFacts (Self-Hosted)

Rich metadata (skills, certifications, evaluations, ESG rating, policies) is self-hosted by each agent at GET /agent-facts, following the NANDA paper's AgentFacts schema.

ZTAA Verification

Before negotiating, the Procurement Agent fetches AgentFacts from discovered suppliers and verifies reliability, ESG rating, jurisdiction and certifications — implementing NANDA's Zero-Trust Agent Architecture.

Key Differentiators

Multi-Framework Agents

LangGraph, CrewAI, LangChain, AutoGen & Custom Python agents collaborate seamlessly via typed A2A envelopes.

Real-Time Visualisation

Cytoscape.js supply graph, message flow, coordination timeline and execution report — all streamed live over WebSocket.

Full Negotiation Cascade

RFQ → QUOTE → COUNTER_OFFER → ACCEPT → ORDER → SHIP_PLAN with weighted scoring (price 30%, lead time 25%, reliability 20%, ESG 15%, proximity 10%).

Semantic Skill Discovery

OpenAI embedding-powered search in the NANDA Index matches user intent to supplier capabilities, beyond simple keyword matching.