

NEMO TRUST

DYNAMIC IDENTITY & TRUST LAYER

BEYOND FRIEND OR FOE.

The modern operational environment is no longer binary.

Unmanned aircraft, autonomous platforms, sensor nodes, and other participants now operate simultaneously within a shared environment. A simple “friend / foe” answer is no longer sufficient.

THE PROBLEM

More autonomous systems. More shared operational space. More identity uncertainty. **A valid ID is no longer enough to establish trust.**

NEMO TRUST — a hardware-software layer for dynamic identification and real-time trust assessment of entities.

The system answers not only the question: “Who is it?”

It determines: “Why do we consider this entity trusted — and is it still trusted now?”

In a world of autonomous systems, claimed identity is not proof of trust. What matters is knowing why an entity can be trusted — right now.

FROM IDENTIFICATION TO TRUST

Traditional approach: OBJECT → ID → FRIEND / FOE

NEMO TRUST: OBJECT → EVIDENCE → CONTEXT → VERIFICATION → TRUST STATE



HOW IT WORKS

NEMO TRUST combines available identity indicators, confirmations from independent sources, operational context, information freshness, and detected contradictions.

Each entity receives a dynamic trust state:

TRUSTED → PROVISIONAL → UNCERTAIN → CONTRADICTORY → UNTRUSTED

Trust is never assigned permanently. It is verified, recalculated, and updated as the situation evolves.

WHY NEMO TRUST

TRUST IS NOT A FLAG.

TRUST IS A CONTINUOUSLY UPDATED STATE.

MULTI-SOURCE VERIFICATION Identity is verified using a combination of available evidence.

DYNAMIC TRUST Trust is continuously reassessed rather than retained as a permanent status.

CONTRADICTION AWARE The system detects inconsistencies between claimed identity and other available data.

KNOWLEDGE DECAY Outdated confirmation gradually loses weight.

EXPLAINABLE TRUST The operator sees not only an entity's trust state, but also the evidence behind it.

SYSTEM-AGNOSTIC The architecture is designed for integration with diverse sensors, platforms, and command-and-control systems.

WORKS WITH EXISTING SYSTEMS

NEMO TRUST is designed as an integration layer — not a replacement.

EXISTING SENSORS + EXISTING IDENTIFICATION + MISSION DATA

↓

NEMO TRUST

↓

DYNAMIC TRUST STATE

↓

C2 / OPERATOR / AUTONOMOUS SYSTEM

APPLICATIONS

Counter-UAS — distinguish trusted, uncertain and contradictory entities

Autonomous Fleets — continuous trust across distributed platforms

Critical Infrastructure — dynamic verification of authorized systems

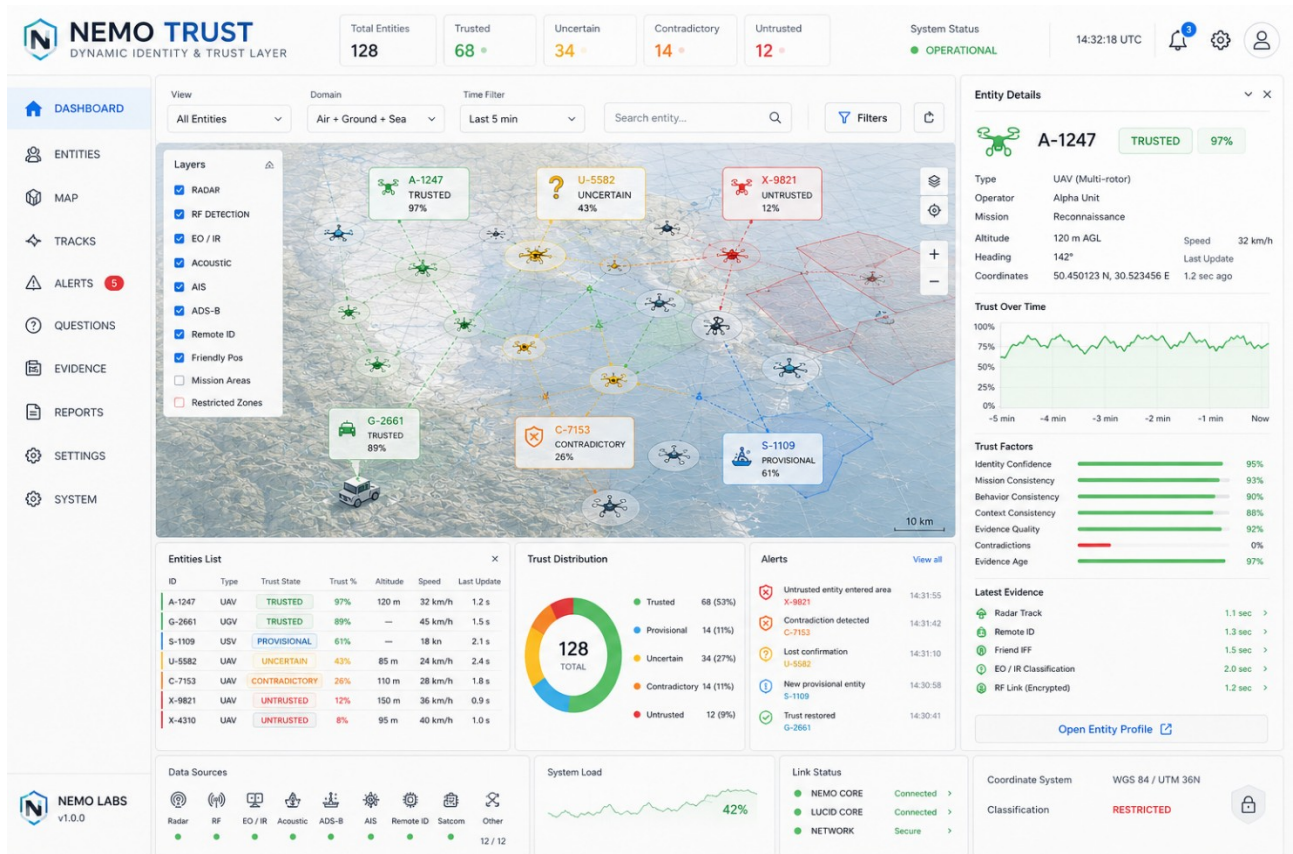
Multi-Domain Operations — common trust layer across heterogeneous systems

ONE ID IS A CLAIM. TRUST REQUIRES EVIDENCE.

NEMO TRUST does not replace existing identification systems.

It transforms their data into a dynamic, explainable trust state.

KNOW WHO IT IS.
KNOW WHY YOU TRUST IT.



KNOW WHEN YOU NO LONGER SHOULD.

NEMO LABS

Dynamic Identity & Trust Layer for Autonomous Operations

IDENTITY & TRUST TECHNOLOGY PLATFORM

Integration · Evaluation · Co-Development