X-Trust X1&X3

Every breach starts with a stolen secret.

X-Trust has none.

The live neural network is the password.



Live identity
No password, key or hash is ever stored.

Security by Design
No software, no chips, no external provider needed.

Self-defending
Every attack is detected. Amplitudes rotate.

~750,000 ATTACK ATTEMPTS

0 ACCEPTED ATTACKS

100,000 AGENTS SCALABLE ARCHITECTURE

With or without clusters.

BUILT FOR

X1	X1	X1	X3	X3
Secure human access	Humanoid robots	Avatars & twins	AI agents	Drone swarms

Any model, harness and provider · Runs on CPU & GPU

See the live demo. Explore a pilot.

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X-Trust X1&X3

The missing layer.

Live authentication for people. Live identity for agents.

X1

The live state is the credential.

The amplitude map belongs to one running neural instance. A restart creates a new map.

Bit-identical readouts. No tolerance window.

X3 SHIELD

The agent is the identity.

A gate outside the model verifies the agent, tool, target and calling process before execution.

The system prompt, tools, task and code are bound to the agent identity.

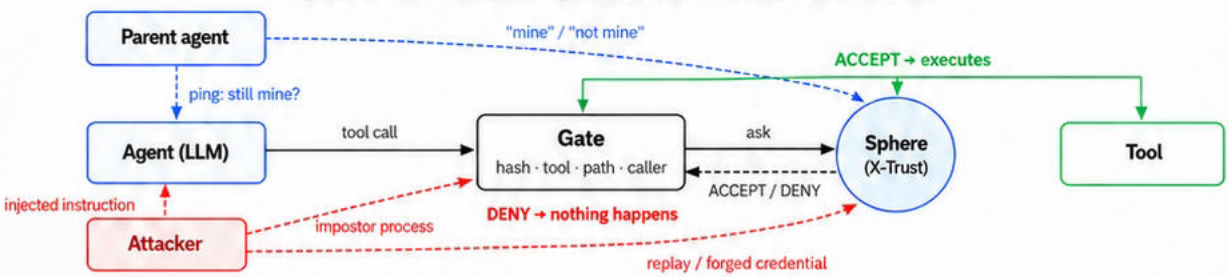
The sphere reads no text. It answers ACCEPT or DENY.

MEASURED VALIDATION

644 / 644	18	0.0 ms
X3 LEGITIMATE REQUESTS RELEASED	AGENTS · 2 CLUSTERS · 4 h 0 EXECUTED WITHOUT IDENTITY	MEDIAN TIMING DIFFERENCE

Timing probe: legitimate-looking and foreign requests both p50 15.9 ms.

HOW A TOOL CALL IS PROTECTED



TECHNICAL KEYFACTS

2^{224}	amplitude value range of 1,533 live amplitudes	65,536	neurons tested
~750,000	attack attempts · 0 accepted	0.053 s	impostor process rejected
120 / 120	race calls denied	74 / 74	late replays denied

CPU validation profile: 1 core · ≈480 MB per instance · fail-closed.

DEPLOYMENT

Any model, harness and provider · Runs on CPU & GPU

OpenClaw · Hermes · additive to OpenShell

100,000 agents · scalable architecture · with or without clusters.

Emergency access: X1 before a vulnerable web application; X3 before an agent's tool execution.

Research & raw data: Zenodo

10.5281/zenodo.21967777 · 10.5281/zenodo.22736928 · Pre-X2: 10.5281/zenodo.22926782

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