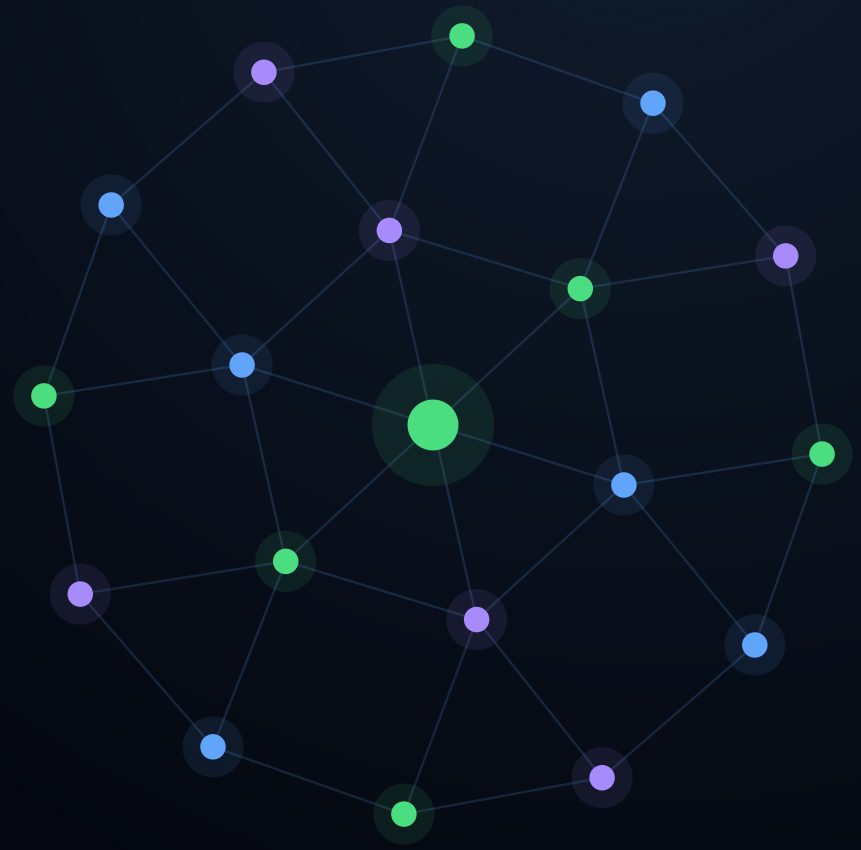
SUPER INTELLIGENCE · AI CLOUD FOUNDRY

SI Hive Mind



A network of AI agents that can prove who they are, and prove what they did.

INVESTOR & EXECUTIVE BRIEFING

Thomas Capital Holdings · November 2026

THE STORY IN ONE LINE

Agents will do the work. Trust decides which ones you let in the building.

01

We built the trust layer.

Every agent carries a cryptographic identity, signs what it sends, and leaves a tamper-evident record.

02

We run it on our own metal.

Nine servers, 340 cores and 94 Gb/s of private network, operated as one equal-node hive.

03

We are shipping it in phases.

Identity and trust are delivered. The protocol and hub are built and in testing. Intelligence is next.

THE OPPORTUNITY

The next enterprise question is not what can an agent do?

It is whether you can trust the one that just asked for access. Organisations are moving from one assistant to fleets of agents that talk to each other. The winners will be the ones who can answer three questions on demand.

IDENTITY

Who is this agent?

A certificate issued by our private authority, valid for 24 hours, tied to one registered agent.

AUTHORITY

Is it allowed to do this?

A policy engine decides who may send which kind of message to whom, before anything is delivered.

PROOF

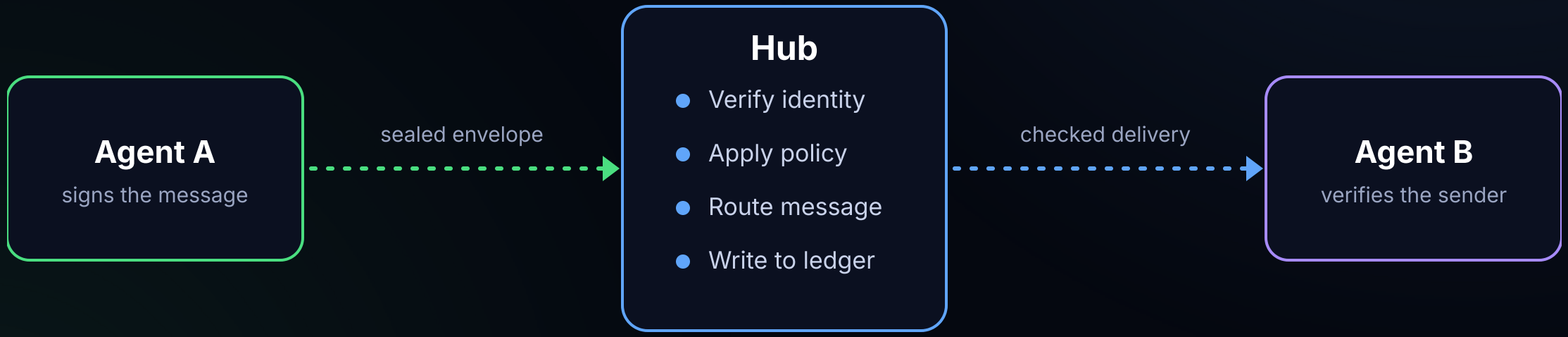
What did it actually do?

A hash-chained ledger and content credentials give every action a record no one can quietly edit.

WHAT WE BUILT

TAMP: every message arrives sealed and stamped.

Trusted Agent Messaging Protocol. Think of a registered letter for AI. The sender signs it, the hub checks the seal and the rules, and the receiver verifies it again before acting. A message that cannot prove itself is simply not processed.



PHASE 1 · DELIVERED

15/15

steps of identity and trust, complete.

The foundation is in place: a private root of trust that every other capability stands on.

- Private certificate authority in Azure Key Vault
- 24-hour agent certificates
- Key Vault remote signing, no keys on disk
- Instant revocation
- C2PA content credentials
- Canonical JSON for identical bytes
- sign() and verify() with seven rules
- Replay protection and clock-skew window
- Test vectors for every verdict
- Fuzzing: anything unverifiable is refused

PHASE 2 · IN TESTING

The hub is built.
Now we prove it.

All twelve workstreams of the protocol and hub are complete and moving through end-to-end, chaos, load and security testing.

01 Registry & roster	02 Roster broadcast	03 Policy engine	04 Router
05 Audit ledger	06 Usage budgets	07 Kill switch	08 Hourly learning
09 Mutual TLS + Entra SSO	10 OpenAPI contract tests	11 Chaos, load, security	12 Operator console

THE HIVE BY THE NUMBERS

Serious capacity, owned outright.

340
CPU cores · 612 threads

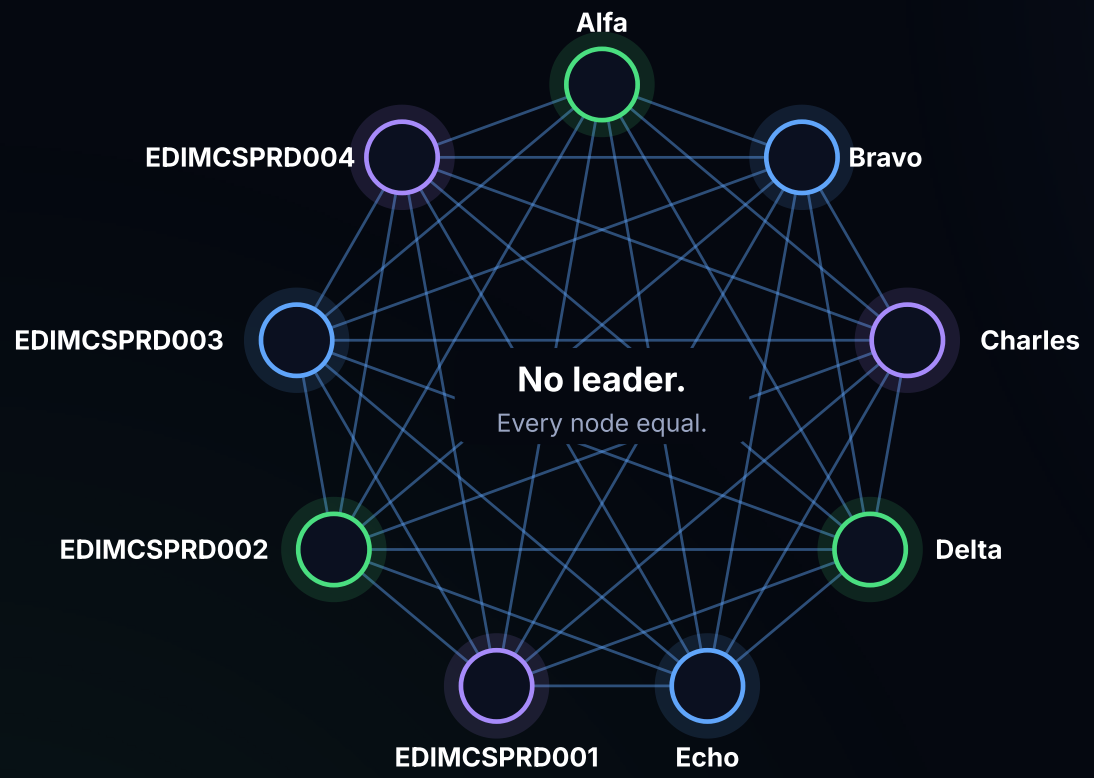
984
GiB of memory

54.5
TB raw storage · 56 drives

94
Gb/s of linked 10 GbE



Nine servers in service: five Dell PowerEdge (about 1,040 W measured on those) and the four-node Mac Studio Fleet for GPU compute.



HIVE OS · IN BUILD

A hive that finds itself.

Power on a node and it announces itself, discovers its peers and joins. Five independent layers make sure it always can.

1. **Signed report-in roster** · in Azure Blob
2. **Firewall lookup**
3. **mDNS**
4. **Subnet sweep** · the fail-safe
5. **SWIM gossip**

HIVE OS · ONE IMAGE

One image. Every node. Any role.

THE BASE IMAGE

- Hive daemon
- Latest Claude Code CLI
- Docker, K3s + KEDA

Same on every server

+

SIGNED RELEASE CHANNEL

Versioned roles

Pulled from Azure Blob with infrastructure (double) encryption.

Registry · Web · Monitoring · Lakehouse · Control plane

+

TRUST BUILT IN

- Identity from the TAMP CA, mutual TLS
- SSH certificate authority in Key Vault
- Auto-registration with monitoring

An interactive installer turns bare metal into a trusted, monitored member of the hive.

OPERATIONS & CI

Watched live. Building constantly.



216 self-hosted CI agents serving 54 organisations.

Mac Studio Fleet nodes EDIMCSPRD002 (M5 Max, 18 cores) and EDIMCSPRD003 (M4 Max, 14 cores) run them all.

CLOUDPORTFOLIO RMM

Every server monitored live with **21 health checks**, full hardware inventory, services, containers and pods, audited remote actions, and CI agent monitoring.

PROVING GROUND

A news network comes home to the hive.

The Meridan Group's news network, MN Current and its sister brands, is moving on-premises. It is the first production workload to prove that the hive can run a real audience.



ROADMAP

Two phases down. The rest is on rails.



1	2	3	4	5
COMPLETE	IN TESTING	NEXT	Q4 2026	2027
Foundation & Trust	**Protocol & Hub**	**Intelligence Layer**	**TAMP 2.0 Command Layer**	**Enterprise & Compliance**

Next up inside the build: JSON Schema and spec alignment, an A2A binding, hub database migrations, and the nine-server hive on new Hive OS images. Phase 5 targets ISO 27001, 27017, 27018 and 22301 alignment.

THE INVITATION

The agent era needs a trust layer. We are building it.



Identity delivered. Protocol in testing. A hive of our own to run it on. Come see it working, and help shape what comes next.

THE BRIEFING

sihivemind.cloudfoundry.ai

WATCH THE FLEET LIVE

stats.cloudfoundry.ai