

Counterparty Identity Records

Counterparty Identity Records with Persistence Promotion, a secondary inventive step of the Agent-Resident Execution Substrate disclosed in U.S. Provisional Application No. 64/070,239: substrate-resident records of entities the agent encounters, each comprising a counterparty identifier, a counterparty scope object, an encounter history, a persistence designation supporting promotion from ephemeral to persistent, and attestation references.

Counterparty Identity Records

The substrate maintains one or more counterparty identity records corresponding to entities encountered by the agent in the course of substrate operation, including peer agents, peer devices, individual human users, and organizational entities. Each record comprises a counterparty identifier, a counterparty scope object, an encounter history within the lineage field, a persistence designation, and one or more attestation references verifying the counterparty's claimed identity.

The counterparty identifier identifies the encountered entity using identity primitives applicable to the entity type. The counterparty scope object specifies the admissible categories of inference dispatch involving the counterparty, the admissible categories of lineage record disclosure to the counterparty, the admissible categories of training

corpus contribution from the counterparty, and the procedural requirements for cross-substrate operations affecting the counterparty. It is evaluated at each interaction event involving the counterparty.

The persistence designation specifies whether the record is ephemeral, persistent, or promoted-from-ephemeral. An ephemeral record is retained only for the duration of an active encounter session and is archived or deleted under retention policy upon session termination. A persistent record is retained across encounter sessions. A promoted-from-ephemeral record is an ephemeral record converted to persistent under the counterparty promotion policy.

Each interaction is recorded in the lineage field as an encounter event referencing the counterparty identity record updated by the encounter. The encounter event records the counterparty identifier, the negotiated encounter scope, the information exchanged in summary form, the duration of the encounter, and any persistence designation change applied to the record as a result of the encounter.

Disclosure Scope

This article describes subject matter disclosed in U.S. Provisional Application No. 64/070,239. It is provided for technical background and does not constitute legal advice or a representation of claim scope.

Agent-Resident Execution

[All 40 steps → \(/inventive-steps\)](#)

Substrate (/agent-resident-execution-substrate)

Persistent execution environment carried by the agent, not the host — identity, state, and lineage across power cycles, devices, and upgrades.

Provisional application

PRIMARY TECHNICAL DISCLOSURE

- [Agent-Resident Execution Substrate, Articles \(/articles/agent-resident-execution-substrate\)](/articles/agent-resident-execution-substrate)

SECONDARY TECHNICAL

- [Persistent Semantic Agent \(/articles/agent-resident-execution-substrate/persistent-semantic-agent\)](/articles/agent-resident-execution-substrate/persistent-semantic-agent)
- [Managed Inference Tool Registry \(/articles/agent-resident-execution-substrate/managed-inference-tool-registry\)](/articles/agent-resident-execution-substrate/managed-inference-tool-registry)
- [Agent-to-Tool Dispatcher \(/articles/agent-resident-execution-substrate/agent-to-tool-dispatcher\)](/articles/agent-resident-execution-substrate/agent-to-tool-dispatcher)
- [Lineage-Derived Training Signal \(/articles/agent-resident-execution-substrate/lineage-derived-training-signal\)](/articles/agent-resident-execution-substrate/lineage-derived-training-signal)
- [Identity Preservation Across Upgrades \(/articles/agent-resident-execution-substrate/identity-preservation-across-upgrades\)](/articles/agent-resident-execution-substrate/identity-preservation-across-upgrades)
- [Cognitive State-Conditioned Dispatch \(/articles/agent-resident-execution-substrate/cognitive-state-conditioned-dispatch\)](/articles/agent-resident-execution-substrate/cognitive-state-conditioned-dispatch)
- [Governed Tool Lifecycle \(/articles/agent-resident-execution-substrate/governed-tool-lifecycle\)](/articles/agent-resident-execution-substrate/governed-tool-lifecycle)
- [Continuity-Proof Lineage \(/articles/agent-resident-execution-substrate/continuity-proof-lineage\)](/articles/agent-resident-execution-substrate/continuity-proof-lineage)
- [Substrate Runtime Continuity \(/articles/agent-resident-execution-substrate/substrate-runtime-continuity\)](/articles/agent-resident-execution-substrate/substrate-runtime-continuity)
- [Personal Corpus Model Training \(/articles/agent-resident-execution-substrate/personal-corpus-model-training\)](/articles/agent-resident-execution-substrate/personal-corpus-model-training)
- [Heterogeneous Inference Endpoints \(/articles/agent-resident-execution-substrate/heterogeneous-inference-endpoints\)](/articles/agent-resident-execution-substrate/heterogeneous-inference-endpoints)
- [Atomic Lifecycle Substitution \(/articles/agent-resident-execution-substrate/atomic-lifecycle-substitution\)](/articles/agent-resident-execution-substrate/atomic-lifecycle-substitution)
- [Integrity Signal Feedback \(/articles/agent-resident-execution-substrate/integrity-signal-feedback\)](/articles/agent-resident-execution-substrate/integrity-signal-feedback)
- [Hardware-Bound Identity \(/articles/agent-resident-execution-substrate/hardware-bound-identity\)](/articles/agent-resident-execution-substrate/hardware-bound-identity)
- [Cognitive State Append-Only Invariant \(/articles/agent-resident-execution-substrate/cognitive-state-append-only-invariant\)](/articles/agent-resident-execution-substrate/cognitive-state-append-only-invariant)
- **[Counterparty Identity Records \(/articles/agent-resident-execution-substrate/counterparty-identity-records\)](/articles/agent-resident-execution-substrate/counterparty-identity-records)**
- [Privacy Egress-Controlled Disclosure \(/articles/agent-resident-execution-substrate/privacy-egress-controlled-disclosure\)](/articles/agent-resident-execution-substrate/privacy-egress-controlled-disclosure)
- [Federated Cross-Device Agent Identity \(/articles/agent-resident-execution-substrate/federated-cross-device-agent-identity\)](/articles/agent-resident-execution-substrate/federated-cross-device-agent-identity)

APPLICATIONS · GENERAL

- [Personal AI Agents That Survive Device Loss: One Continuous Identity and a Private Corpus Across Every Device \(/articles/agent-resident-execution-substrate/personal-cross-device-agents\)](/articles/agent-resident-execution-substrate/personal-cross-device-agents)
- [Enterprise Agent Fleets: Stable Agent Identity and Governed Tool Access Across Model Upgrades and Infrastructure Migration \(/articles/agent-resident-execution-substrate/enterprise-agent-fleets\)](/articles/agent-resident-execution-substrate/enterprise-agent-fleets)
- [Audit-Grade Agent Identity for Regulated Finance and Healthcare: Continuity-Proof Lineage Across the Agent Lifecycle \(/articles/agent-resident-execution-substrate/regulated-industry-agents\)](/articles/agent-resident-execution-substrate/regulated-industry-agents)
- [Edge and On-Device Agents: Hardware-Bound Identity Across Heterogeneous Inference Endpoints \(/articles/agent-resident-execution-substrate/edge-and-on-device-agents\)](/articles/agent-resident-execution-substrate/edge-and-on-device-agents)
- [Agent-to-Agent Commerce With Counterparty Identity Records and Egress-Controlled Disclosure \(/articles/agent-resident-execution-substrate/agent-to-agent-commerce\)](/articles/agent-resident-execution-substrate/agent-to-agent-commerce)
- [Governed Tool Lifecycles for Managed Inference-Provider Ecosystems: A Substrate Approach to Owning, Routing, and Retiring AI Tools \(/articles/agent-resident-execution-substrate/managed-tool-ecosystems\)](/articles/agent-resident-execution-substrate/managed-tool-ecosystems)
- [Proving Unbroken Continuity in Long-Lived Autonomous Systems Across Substrate Migration and Atomic Model Substitution \(/articles/agent-resident-execution-substrate/long-lived-autonomous-systems\)](/articles/agent-resident-execution-substrate/long-lived-autonomous-systems)
- [Personal-Model Personalization: A User's Own Corpus-Internalized Model on the Agent-Resident Execution Substrate \(/articles/agent-resident-execution-substrate/personal-model-personalization\)](/articles/agent-resident-execution-substrate/personal-model-personalization)
- [On-Device Agent Identity for Robots and Autonomous Vehicles: An Auditable Substrate for Embodied Physical-World Agents \(/articles/agent-resident-execution-substrate/embodied-physical-world-agents\)](/articles/agent-resident-execution-substrate/embodied-physical-world-agents)

APPLICATIONS · SPECIFIC

- [LangGraph Platform \(LangChain\) vs an agent-resident execution substrate: orchestration-graph state versus a portable, hardware-anchored agent runtime \(/articles/agent-resident-execution-substrate/langgraph-platform\)](/articles/agent-resident-execution-substrate/langgraph-platform)
- [OpenAI AgentKit and the Assistants/Responses API vs agent-carried, hardware-anchored identity with governed tool lifecycle \(/articles/agent-resident-execution-substrate/openai-agentkit\)](/articles/agent-resident-execution-substrate/openai-agentkit)
- [Microsoft Copilot Studio vs an agent-resident execution substrate: platform-hosted agent authoring versus portable, device-resident agent identity and continuity \(/articles/agent-resident-execution-substrate/microsoft-copilot-studio\)](/articles/agent-resident-execution-substrate/microsoft-copilot-studio)
- [Google Vertex AI Agent Engine \(managed runtime for deploying and scaling agents, with sessions/memory\) vs an agent-carried, continuity-proofed identity substrate \(/articles/agent-resident-execution-substrate/google-vertex-agent-engine\)](/articles/agent-resident-execution-substrate/google-vertex-agent-engine)

- [AWS Bedrock AgentCore \(runtime, memory, identity, and gateway services for deploying agents at scale\) vs an agent-resident execution substrate: where does the agent identity actually live? \(/articles/agent-resident-execution-substrate/aws-bedrock-agentcore\)](/articles/agent-resident-execution-substrate/aws-bedrock-agentcore)
- [Letta \(formerly MemGPT\) vs an append-only cognitive-state substrate: what a memory-management framework does not provide \(/articles/agent-resident-execution-substrate/letta-memgpt\)](/articles/agent-resident-execution-substrate/letta-memgpt)
- [Cognition's Devin, an autonomous AI software-engineering agent vs a portable, continuity-proofed agent-resident runtime \(/articles/agent-resident-execution-substrate/cognition-devin\)](/articles/agent-resident-execution-substrate/cognition-devin)
- [Cloudflare Agents \(Durable Objects\) vs an agent-resident execution substrate: portable hardware-bound identity and continuity-proof lineage \(/articles/agent-resident-execution-substrate/cloudflare-agents\)](/articles/agent-resident-execution-substrate/cloudflare-agents)
- [Ollama alternative: from local model runner to a governed agent-resident substrate \(/articles/agent-resident-execution-substrate/ollama\)](/articles/agent-resident-execution-substrate/ollama)
- [Apple Intelligence \(on-device foundation models, Private Cloud Compute\) vs a persistent agent-resident substrate: who owns identity, lineage, and the model? \(/articles/agent-resident-execution-substrate/apple-intelligence\)](/articles/agent-resident-execution-substrate/apple-intelligence)

[Agent-Resident Execution Substrate overview → \(/agent-resident-execution-substrate\)](/agent-resident-execution-substrate)