

Privacy Egress-Controlled Disclosure

Lineage, models, corpora, and identity records not transmitted off-device except under explicit disclosure policy evaluated against governance constraints.

Privacy Egress-Controlled Disclosure

Lineage records, model artifacts, training corpora, personal corpus model parameters, scope-local context store contents, and counterparty identity records are not transmitted off the substrate device except under an explicit disclosure policy object within the governance policy field. The disclosure policy object identifies a recipient, a scope of permitted disclosure, an authorization attestation, a retention requirement applicable to the disclosed material, and a revocation mechanism.

In an embodiment, the privacy invariant is enforced through one or more mechanisms, including a substrate-runtime egress filter that intercepts outbound network traffic and verifies each transmission against the applicable disclosure policy, per-component isolation that prevents subordinate components from initiating off-device transmissions absent explicit dispatch through the egress filter, signed disclosure-policy preconditions verified before any encryption key required for off-device transmission is released to a transmitting component, and hardware-anchored attestation that the substrate runtime mediating the disclosure has not been tampered with.

Each off-device disclosure event is recorded in the lineage field as a deterministic disclosure event, comprising the disclosure policy object identifier, the recipient identifier, the categories of disclosed material, an enumeration of specific records or artifacts disclosed in summary form, the authorization attestation, and a timestamp. The disclosure lineage is verifiable by any party with access to the lineage field and permits the user or a regulatory authority to audit the complete record of off-device disclosures originating from the substrate. The privacy invariant is operative regardless of network connectivity. Inference operations performed entirely on the substrate device do not constitute off-device disclosure. Disclosures that exceed the applicable disclosure policy are denied by the substrate runtime and recorded as denial events.

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

- [{step.name}, Articles \(/articles/agent-resident-execution-substrate\)](#)

SECONDARY TECHNICAL

- [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).

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