

# Policy Freshness Across Asynchronous Execution

Confidence governor evaluating policy freshness as confidence input after asynchronous resumption, with stale policy producing proportional confidence reduction.

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## Policy Freshness Across Asynchronous Execution

The governance mechanisms of Application [7] and the execution mechanisms of Application [6] interact through the confidence governor (Chapter 5) to address policy freshness across asynchronous execution intervals. When a semantic agent resumes execution after an asynchronous interval and detects that the governance policy in force at the time of suspension has been superseded by a newer policy, the confidence governor evaluates policy freshness as a confidence input.

A policy is treated as stale when its validity window has expired or when its issuing authority has published a superseding policy. Stale policy produces a confidence reduction proportional to the governance significance of the policy change. The reduction is graded rather than absolute, so a minor policy change need not halt execution while a significant change can.

If the confidence reduction causes the confidence value to fall below the execution authorization threshold, the agent transitions to a non-executing cognitive mode and generates an inquiry requesting the current policy before resuming execution. This

prevents an agent from acting on outdated authority after a period of disconnection or suspension.

## Disclosure Scope

This article describes subject matter from United States Patent Application 19/647,395. It is provided for technical background and does not constitute legal advice or a representation of claim scope.

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## **Cross-Patent Architecture** (</cross-patent-architecture>) [All 40 steps → \(/inventive-steps\)](/inventive-steps)

Cross-cutting architectural principles that compose every primitive into a coherent platform.

[Chapter 1 \(/patents/19-647395/chapters/foundation\)](/patents/19-647395/chapters/foundation)

### **PRIMARY TECHNICAL DISCLOSURE**

–  [{step.name}, Articles \(/articles/cross-patent-architecture\)](/articles/cross-patent-architecture)

### **SECONDARY TECHNICAL**

- [Transit Cognitive State \(/articles/cross-patent-architecture/transit-cognitive-state\)](/articles/cross-patent-architecture/transit-cognitive-state).
- [Substrate Identity Revocation During Active Cognition \(/articles/cross-patent-architecture/substrate-identity-revocation\)](/articles/cross-patent-architecture/substrate-identity-revocation)
- [\*\*Policy Freshness Across Asynchronous Execution \(/articles/cross-patent-architecture/policy-freshness-asynchronous-execution\)\*\*](/articles/cross-patent-architecture/policy-freshness-asynchronous-execution)
- [Governance Authority Evaluation via Integrity Trajectory \(/articles/cross-patent-architecture/governance-authority-integrity-trajectory\)](/articles/cross-patent-architecture/governance-authority-integrity-trajectory).
- [Discovery Agent as Schema-Conformant Index Traverser \(/articles/cross-patent-architecture/discovery-agent-schema-index-traverser\)](/articles/cross-patent-architecture/discovery-agent-schema-index-traverser)
- [Cross-Tier Navigation Primitive: World as Model \(/articles/cross-patent-architecture/cross-tier-navigation-world-as-model\)](/articles/cross-patent-architecture/cross-tier-navigation-world-as-model)

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[Cross-Patent Architecture overview → \(/cross-patent-architecture\)](#)