

# Admissibility Gate as Skill Router

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## What 'Admissibility-as-Router' Specifies

At inference, a request arrives and the admissibility gate evaluates: which active artifacts are admissible for this request, what is their relative weighting, and how should they contribute to the inference. The gate consumes the request, the certified active artifacts, the consumer's policy, and the operational context, producing a routing decision.

The decision is graduated rather than binary. A request may route to multiple artifacts with weighted contribution, may activate a contextually-appropriate dormant artifact subject to admissibility, may defer to a higher-authority artifact when policy requires, or may decline routing when no artifact is admissible. Every routing decision is recorded in lineage.

## Why Two-Layer Routing Is Architecturally Wasteful

Splitting skill selection from inference routing requires two policy substrates, two evaluation paths, and two audit trails. The split exists for historical reasons (different teams built each layer) rather than architectural ones. The routing decisions in both layers depend on the same inputs: request, available artifacts, policy, context.

Unifying the two into a single composite admissibility gate eliminates the structural duplication. The gate runs once per inference, produces a single decision, and records a single lineage. The architecture is simpler, the evaluation is faster, and the audit reconstruction has fewer moving parts to verify.

## **How the Unified Gate Handles Skill Routing**

The composite admissibility evaluator already consumes authority, evidential weighting, capability envelope, temporal scope, and disposition. Skill routing adds: artifact-fit (how well does each active artifact match the request), artifact-authority (what authority signs the artifact), and dependency-state (are required prerequisite artifacts active).

The output is a vector of weighted artifact contributions plus an explicit decision: route to these artifacts at these weights, dormant-activate this artifact subject to admissibility, refuse routing for these reasons. The same lineage that records execution decisions records routing decisions, with consistent governance treatment across the two.

## **What This Enables for Agent Platform Architecture**

Anthropic Skills, OpenAI Custom Actions, Google Gemini Extensions, and Microsoft Copilot Studio are converging on the architecture they're building ad hoc. Unified admissibility-as-router is the structural primitive that the convergence is heading toward.

The architecture is also extensible. New artifact types (emerging adaptation techniques, hybrid composition mechanisms, future runtime mutation patterns) integrate into the same gate by declaring their admissibility-relevant metadata. The

gate doesn't need to be re-engineered for each new artifact type. The patent positions the unifying primitive at the layer where the platforms are converging.