

# Consumer-Side Sandbox Pre-Activation Certification

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## Sandbox-Then-Activate as a Structural Pattern

When a consuming system receives a signed adaptation artifact, the consumer's certification process runs before activation. The sandbox is a constrained environment in which the artifact executes against a representative subset of the consumer's typical inference workload, with the resulting behavior evaluated against the consumer's admissibility policy.

The certification produces a credentialed observation signed by the consumer's authority: this artifact, in this consumer's deployment, exhibits behavior consistent with admissibility policy P. Activation depends on the certification observation. Without certification, the artifact remains inactive regardless of its authoring credential.

## Why Authoring-Side Certification Is Insufficient

The authoring authority cannot anticipate every consumer's policy. A skill certified safe by Anthropic for general-purpose Claude deployment may produce unacceptable behavior in a regulated-medical deployment, a consumer-financial deployment, or a defense deployment whose policy differs from the general default.

Consumer-side certification puts the policy decision where the policy authority lives: at the consumer. Authoring credentials remain meaningful — the consumer trusts that Anthropic-signed artifacts are what Anthropic claims they are — but the activation decision is the consumer's. This separation is structural rather than optional.

## **How Sandbox Composition Operates**

The consumer maintains a credentialed sandbox environment instrumented to observe the artifact's behavior on representative inference patterns. The sandbox produces credentialed observations of the behavior; the consumer's admissibility policy evaluates the observations; if the policy admits, a certification observation is signed.

Certification is policy-dependent and time-bounded. A new policy version may invalidate prior certifications; an artifact authoring update may require re-certification. The architecture treats certifications as governance-credentialed observations subject to the same lifecycle as any other observation, including revocation, expiration, and replacement.

## **What This Enables for Regulated Deployments**

Healthcare, financial services, defense, and government agent deployments all face compliance requirements that authoring-side certification cannot satisfy. The consumer must certify the artifact against its specific compliance regime; consumer-side sandbox certification provides the structural substrate.

The architecture also supports independent third-party certification. A defense deployment may require certification from a defense-credentialed authority in addition to its own; a medical deployment may require FDA-credentialed

certification. The composition is structural through credentialed observations rather than ad-hoc per-vendor integrations.