

# LAYER 8 — Integration Guide

*Execution Governance Gateway — Technical Integration Manual*

## 1. Overview

Layer 8 separates billing confirmation from execution authorization. Your system must validate access through the /access endpoint before triggering any automation, API call, AI execution, or admin action.

## 2. Stripe Configuration

- Create Stripe Products and recurring Prices (Starter / Pro / Enterprise).
- Enable automatic tax and trial settings if applicable.
- Create a Webhook endpoint pointing to your Layer 8 Worker URL.
- Enable events: checkout.session.completed, customer.subscription.created, customer.subscription.updated, customer.subscription.deleted.
- Store the STRIPE\_WEBHOOK\_SECRET securely in Layer 8 environment variables.

## 3. Webhook Processing

Layer 8 verifies Stripe webhook signatures using HMAC SHA256 validation. If verification fails, the request is rejected (HTTP 400). Verified events update the Subscription State Machine and entitlement mapping.

## 4. Execution Gateway Usage

- Before any execution, call: GET /access?customer\_id=XXX
- Optionally include feature parameter: &feature;=advanced\_execution
- System returns JSON: access (true/false), status, tier, entitlements, reason.
- Proceed only if access:true.
- If access:false, deny execution and log reason.

## 5. Failure Modes (Fail-Closed)

- `trial_expired` → Execution blocked automatically.
- `revoked` → Refund or cancellation detected.
- `feature_not_allowed` → Tier restriction enforced.
- `system_paused` → Global Kill-Switch active.
- `not_found` → No valid subscription state.

## 6. Security Best Practices

- Never grant execution based solely on Stripe billing confirmation.
- Always enforce runtime check through `/access` endpoint.
- Log denied attempts with correlation ID.
- Protect webhook endpoint against replay attacks (idempotency).
- Restrict direct access to automation endpoints.

## Disclaimer

This Integration Guide describes technical implementation steps for Layer 8 infrastructure. It does not replace legal or compliance advice.