Billing Engine Evaluation Pack

This document is a compact checklist for technical and procurement evaluation of a headless billing engine: subscriptions, usage, hybrid pricing, invoicing, and a ledger-backed audit trail.

What this pack covers

- Architecture expectations (ledger-first design, deterministic invoice rendering, reconciliation).
- Reliability requirements (idempotency, retries, webhook replay safety).
- Usage metering patterns (immutable events, window aggregation, late-event backfills).
- Financial correctness traps (proration, rounding, time zones, credits).
- Security and procurement questions commonly asked by enterprise buyers.

Core architecture checklist

- Ledger entries are immutable and auditable; invoices are views over the ledger.
- Every money-moving write path is idempotent (tenant-scoped keys; safe retries).
- Webhook ingestion verifies signatures, persists payloads, dedupes, and reprocesses.
- Derived artifacts (invoices, balances, exports) can be re-rendered deterministically.

Integration checklist

- Customer/organization model supports multi-tenant SaaS and multiple billing accounts.
- Usage ingestion supports batching, backfills, and aggregation windows with watermarks.
- Exports support finance workflows (ledger export, invoice export, tax/VAT hooks as needed).

Security and procurement checklist

- Encryption in transit and at rest; access controls (RBAC) and audit logging.
- Data retention and deletion policy; incident response and vulnerability management processes.
- Subprocessors list and contractual readiness (DPA, data residency options if applicable).