Event Gateway

Fictional specification authored for the Spec Review reference project.

1. Event ingestion

The gateway accepts JSON events over HTTPS.

Each request may contain up to 250 events.

The maximum request body is 1 MiB.

A successful response means the event has entered durable storage.

Clients retry failed requests using an idempotency key.

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2. Delivery and retention

Delivery uses at-least-once semantics.

Idempotency keys remain valid for 72 hours.

Consumers must tolerate duplicate delivery.

Events are retained for 3 days.

Consumers can replay events within the retention period.

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3. Operations

The service reports queue depth and oldest-event age.

Retries use exponential backoff with a maximum delay of 60 seconds.

Health checks report liveness and readiness separately.

The legacy /v1/status endpoint is removed; use /v2/health.

All limits apply per deployment.