

Resilient RAP Framework

Pipeline Run Report

Run ID: run_20260208_demo_abc123

Source: OpenF1 API - Demo Session

Status: PARTIAL

Started: 2026-02-08 19:46:00 UTC

Ended: 2026-02-08 19:51:00 UTC

Duration: 300.00 seconds

Executive Summary

| Metric | Count |
|---------------------|-------|
| Schema Drift Events | 3 |
| Failures | 2 |
| Resilience Actions | 3 |
| Total Audit Events | 487 |

Schema Drift Events

| Field | Expected | Observed | Severity | Action |
|-----------------------|----------|----------|----------|---|
| vehicle_speed | float | integer | low | auto-reconciled to Speed (km/h) |
| pulse_ox_fingertip | integer | string | medium | auto-reconciled to Oxygen Saturation (SpO2) |
| brake_temp_front_left | float | missing | high | fallback to default value |

Failures & Resilience Actions

Failures:

| Component | Type | Message | Time |
|------------|--------------------|-----------------------------------|----------|
| ingestion | connection_timeout | API connection timeout after 30s | 19:46:45 |
| validation | schema_mismatch | Missing required field: timestamp | 19:47:30 |

Resilience Actions:

| Action | Component | Outcome | Details |
|----------------|----------------|---------|---|
| retry | ingestion | success | Retry #2 succeeded after exponential backoff. |
| fallback | validation | success | Used default schema validation rules |
| auto-reconcile | semantic_layer | success | 3 fields auto-reconciled to gold standard. |

Audit Summary & Integrity

Total Events Processed: 487

Tamper-Evident Logging: ✓ Enabled

Signature Status: ✓ Valid

Anomalies Detected: 2

Audit Log Location: data/reproducibility_audit.json

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