

# Resilient RAP Framework

## Pipeline Run Report

**Run ID:** run\_20260208\_demo\_abc123

**Source:** OpenF1 API - Demo Session

**Status:** PARTIAL

**Started:** 2026-02-09 00:38:21 UTC

**Ended:** 2026-02-09 00:43:21 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	quarantine_record: Missing critical sensor data

## Failures & Resilience Actions

### Failures:

Component	Type	Message	Time
ingestion	connection_timeout	API connection timeout after 30s	00:39:06
validation	schema_mismatch	Missing required field: timestamp	00:39:51

### 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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