Resilient RAP Framework

Pipeline Run Report

Run ID: run_20260208_demo_abc123

Source: OpenF1 API - Demo Session

Status: PARTIAL

Started: 2026-02-08 19:27:19 UTC

Ended: 2026-02-08 19:32:19 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 Heart Rate
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	19:28:04
validation	schema_mismatch	Missing required field: timestamp	19:28:49

Resilience Actions:

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

Audit Summary & Integrity

Total Events Processed: 487

Tamper-Evident Logging: ✓ Enabled

Signature Status: ✓ Valid

Anomalies Detected: 2

Audit Log Location: data/reproducibility_audit.json