RELEASE CANDIDATE VALIDATION

Release 1.4.0: cleared with two fixed failures

Full pipeline run across the API, the dispatch web app, the driver app on eleven physical devices and the assistant evaluation suite. Two end-to-end failures surfaced on the first run, both fixed and re-verified before this report was issued. Three tests remain flagged flaky and are tracked below.

- 2,847 passed
- 2 failed → fixed
- 3 flaky
- 14 skipped
- coverage 87.4% (+1.9)
- runtime 14 m 52 s

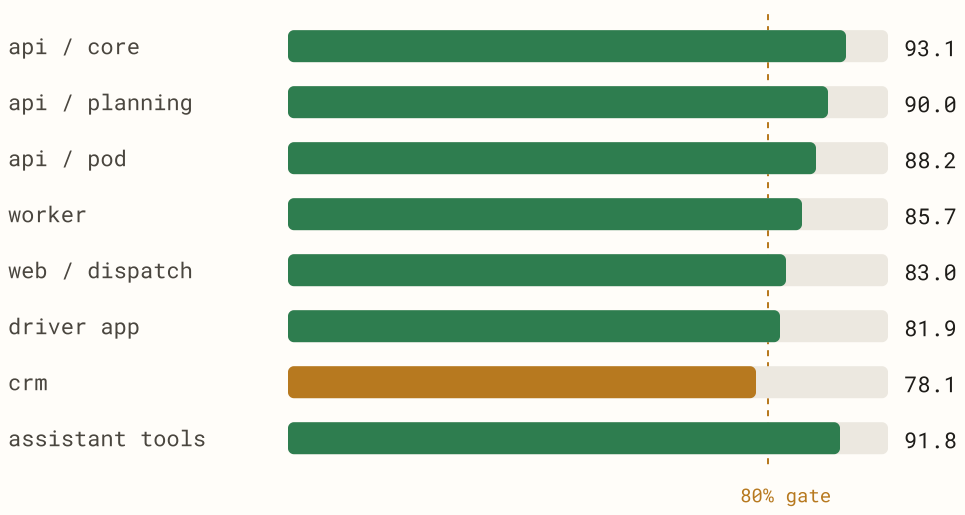
SAMPLE DOCUMENT · KESTREL FREIGHT IS A FICTIONAL CLIENT

Verdict: ship to Venlo on Monday, Duisburg on Thursday

Both failures were in the driver app offline path and are covered by new regression tests (E2E-118, E2E-119). No open P1 or P2. The AC-05 latency target from the spec passes on 3G simulation at p95 11.8 s. Rollback plan is the 1.3.2 image, already tagged.

QA APPROVED

COVERAGE BY PACKAGE



Line coverage, Istanbul + lcov merged. CRM below gate: accepted, raised to 82% target for 1.5.0.

SUITES

SUITE	TESTS	PASS	FAIL	TIME	RUNNER
Unit: api	1,412	1,412	0	1m 48s	vitest
Unit: web	604	604	0	1m 12s	vitest
Unit: driver app	388	388	0	2m 05s	flutter test
Integration: db	176	176	0	2m 31s	vitest + pg
End-to-end: dispatch	142	142	0	3m 40s	playwright
End-to-end: driver app	96	94	2	2m 58s	patrol
Assistant evals	43	43	0	38s	eval-runner
Total	**2,861**	**2,859**	**2**	**14m 52s**	

FLAKY TESTS (QUARANTINED, RETRY 2X)

E2E-074 board updates after stop event	3 / 50 runs	timing
E2E-091 PoD PDF attached to email	2 / 50 runs	smtp stub
INT-033 queue consumer resumes after restart	1 / 50 runs	redis

FAILURES AND FIXES

E2E-112 · driver app · P2

Offline stop events replayed out of order after reconnect

With two queued events ("arrived", "departed") and a 90-second connectivity gap, the client flushed "departed" first on Android 12. The board showed the stop as departed before arrived and ETA drifted by 14 minutes.

```
expected: ["arrived", "departed"]
received: ["departed", "arrived"]
  at stop_queue_test.dart:148
```

Fixed in 7f3a9c1 · regression E2E-118 · root cause: unordered SQLite read

E2E-115 · driver app · P2

Signature canvas blank in PoD PDF on iOS 18.5 when captured offline

The signature bitmap was encoded before the canvas finished rendering when the device was offline and the image cache cold. The PDF reached the shipper with an empty signature box; the photo and timestamp were intact.

```
assert pdf.signature.pixels_nonwhite > 400
  actual: 0   device: iPhone 15, iOS 18.5
  at pod_pdf_test.dart:92
```

Fixed in 7f3a9c1 · regression E2E-119 · root cause: await on toImage()

DRIVER APP DEVICE MATRIX (PHYSICAL DEVICES, END-TO-END SUITE)

iOS 18.5 iPhone 15 96 / 96 pass	iOS 18.5 iPhone 13 96 / 96 pass	iOS 17.6 iPhone SE (3rd) 96 / 96 pass	Android 16 Pixel 9 96 / 96 pass	Android 15 Galaxy S24 96 / 96 pass	Android 14 Galaxy A35 96 / 96 pass
Android 13	Android 12	Android 11	Android 10	Android 10	Not tested

96 / 96 pass	96 / 96 re-run	96 / 96 pass	95 / 96 1 skip	Tab A8) 96 / 96 pass	0 of 140 trucks n/a