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TEST PLAN AND ACCEPTANCE RECORD

# Test plan for SDD-DIG-001 against the requirements and failure conditions of SRA-DIG-001

Test document — plan complete; results are recorded at acceptance

| CAPABILITY | DOCUMENT | VERSION | DATE |
|---|---|---|---|
| Digital | STP-DIG-001 | 1.1 | Oct 10, 2026 |

WRITTEN BY

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**What this document is.** The proof half of the set. Every requirement row except the input R1, and every failure condition in SRA-DIG-001, has a test here with a method, a pass criterion and an evidence item. The results columns are filled at acceptance. When they are filled from a build, SRA-DIG-001 §7 gets its validation and the architecture becomes a validated architecture. Security cases follow the OWASP API Security Top 10, 2023 edition **[S8]**; interoperability cases test the open specification named in each requirement, so they are rerun unchanged whichever product wins the buyer's comparison. Bracketed source numbers are SRA-DIG-001 §9's, read Sep 24, 2026. A row with more than one tag is counted once: as a published figure if any tag is [S] or [S*], otherwise as an assumption if any tag is [A], otherwise as a design target.

## Document control

| | | | |
|---|---|---|---|
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| Classification | Public | Supersedes | 1.0, Sep 27, 2026 |
| Capability | Digital | Author | Avinash Dhinakaran |
| Role | Principal Integration Architect | | |
| Tests | SRA-DIG-001 R2–R18 and F1–F10<br>SDD-DIG-001 cut-over steps 3 and 5<br>encryption and log delivery (T29–T30)<br>F4 (cluster control plane down) by T31, in non-production only | | |
| Credentials | iSAQB Certified Professional for Software Architecture – Advanced Level (CPSA-A), Oracle Certified Consultant – Value Chain Planning, Master Data Management, SCM Cloud | | |
| Approval | Approved by Edwin Ozer, Founder, Oct 10, 2026. Issued by Symbeeo, Oct 10, 2026. | | |
| Sign-off | "The customer's named acceptor signs the results; the practice lead countersigns. Acceptance = every T-case except T8 marked pass or waived with a reason; T8 is recorded at day 30 of production." | | |

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**Table 1.** Revision history

| Date | Version | Change |
|---|---|---|
| Sep 27, 2026 | 1.0 | First issue. |
| Oct 10, 2026 | 1.1 | Approval line now reads: approved by the Founder, issued by Symbeeo. Avinash Dhinakaran remains the author. |

## 1 · Scope, environment, entry and exit

**Scope.** Application platform, API edge, event layer, telemetry pipeline, collaboration identity and device lifecycle, for a typical buyer of SDD-DIG-001. **Environment.** Every case runs first in non-production where it can; T1–T3, T8, T11 and T14–T18 are then run or repeated in production. **Entry criteria.** SDD-DIG-001 signed; P1–P8 closed; software baseline (SDD §5.2) recorded. **Exit criteria.** Acceptance is signed on every T-case except T8, each pass or waived with a written reason and the client's initials; T8 (R5, availability over the first 30 days of production) is recorded at day 30 and, if it fails, is handled as a failed case under the §4 fix window; evidence archive handed over. T31 runs in non-production only: a production control plane is never stopped for acceptance.

**Evidence captured for every case.** The item named in the case's Evidence it produces column — a log extract, screenshot, per-device quality record (serial, firmware, test result) or failover timing — with timestamp; component name and version (§3); tester's initials. Evidence columns stay empty until the test runs. Failover is tested by T9, T19, T20, T21 and T23; encryption by T29; delivery of security logs to the client's collector by T30.

## 2 · Test cases

**Table 2.** Test cases

| ID | Tests | Method | Pass criterion | Evidence it produces | Result | Evidence ref | Date · initials |
|---|---|---|---|---|---|---|---|
| T1 | R7 platform version | read server version on every cluster | each on one of the three newest Kubernetes minors at test date [S1] | log extract: server version per cluster | ☐ pass ☐ fail | | |
| T2 | R9 drift | change one production Deployment by hand | drift alarm ≤ 15 min; state restored from Git | log extract: alarm and Git reconcile, timestamped | ☐ pass ☐ fail | | |
| T3 | R8 maintenance commitment | list every component on a production traffic path with its maintenance source | 100 % covered for 12 months; ingress-nginx absent | maintenance-source list per component | ☐ pass ☐ fail | | |
| T4 | R2 contract gate | open a route merge with no contract in the catalog | merge refused; catalog count = exposed API count | screenshot: refused merge; catalog count export | ☐ pass ☐ fail | | |
| T5 | R3 grants | request implicit and password grants for every API client | 0 tokens issued; untokenized call returns 401 | log extract: token endpoint refusals and 401s | ☐ pass ☐ fail | | |
| T6 | API security | OWASP API Top 10 (2023) test on the 5 highest-risk APIs [A] | no open finding in API1 (object-level authorization) or API2 (authentication) | test-tool report per API | ☐ pass ☐ fail | | |

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| ID | Tests | Method | Pass criterion | Evidence it produces | Result | Evidence ref | Date · initials |
|---|---|---|---|---|---|---|---|
| T7 | R4 edge latency | design load with and without the edge in path | added latency ≤ 10 ms p95 | load-tool report, both runs | ☐ pass ☐ fail | | |
| T8 | R5 edge availability | measure over the first 30 days of production | ≥ 99.95 % | 30-day availability export | ☐ pass ☐ fail | | |
| T9 | R6 and F5, broker down | stop one broker while producing at design rate with `acks=all` | acknowledged count = consumed count; 0 lost | failover timing; producer and consumer counts | ☐ pass ☐ fail | | |
| T10 | R10 OTLP coverage | compare tier-1/2 service list with services seen in all three stores | 100 % in traces, metrics and logs | service list vs store query exports | ☐ pass ☐ fail | | |
| T11 | R11 end-to-end trace | one request edge → service → Kafka → consumer | one trace ID on every span, broker hop included | trace export, one trace ID | ☐ pass ☐ fail | | |
| T12 | R12 pipeline drops | one hour at design load; read collector drop counters | ≤ 0.1 % dropped | collector drop-counter export | ☐ pass ☐ fail | | |
| T13 | R13 SLO paging | inject errors past the burn-rate threshold on one tier-1 service | page received ≤ 5 min | screenshot: page with timestamp | ☐ pass ☐ fail | | |
| T14 | R14 provisioning | create a joiner, then change the joiner's department | both visible in every collaboration service ≤ 15 min | log extract: SCIM events per service, timestamped | ☐ pass ☐ fail | | |
| T15 | R15 revocation | disable an identity holding a live session in each service | access lost ≤ 5 min in every service receiving CAEP events; ≤ 15 min in any other (SRA-DIG-001 R15) | log extract: CAEP events and access denial per service | ☐ pass ☐ fail | | |
| T16 | R16 lifecycle | compare device and server inventory with each vendor's support dates [S17]–[S19] | 0 past support at handover | per-device quality record: serial, firmware, support date, result | ☐ pass ☐ fail | | |
| T17 | R17 accessibility | WCAG 2.2 AA audit of each employee-facing portal | 0 Level A or AA failures | audit-tool report per portal | ☐ pass ☐ fail | | |
| T18 | R18 retention | read configured retention per signal | metrics 13 months, traces 14 days, logs 12 months | configuration extract per signal | ☐ pass ☐ fail | | |
| T19 | F1 edge replica down | delete one edge replica under load | no client-visible errors beyond retries | load-tool error report | ☐ pass ☐ fail | | |
| T20 | F2 edge tier down | scale the edge to zero in one cluster | traffic served from the other cluster ≤ 60 s | failover timing: DNS and first served request | ☐ pass ☐ fail | | |
| T21 | F3 node down | power off one worker node | pods rescheduled ≤ 5 min | failover timing: reschedule log | ☐ pass ☐ fail | | |

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| ID | Tests | Method | Pass criterion | Evidence it produces | Result | Evidence ref | Date · initials |
|---|---|---|---|---|---|---|---|
| T22 | F6 identity provider unreachable | block the provider from one cluster | new sign-ins refused; issued tokens honored to expiry; no fail-open | log extract: refused sign-ins, honored tokens | ☐ pass ☐ fail | | |
| T23 | F7 collector gateway replica down | delete one gateway collector under T12 load | agents fail over; drops stay ≤ 0.1 % | failover timing; drop-counter export | ☐ pass ☐ fail | | |
| T24 | F8 telemetry store down | stop one store for 1 h | agents buffer; no gap after restore | buffer and gap query export | ☐ pass ☐ fail | | |
| T25 | F9 certificate expiry | issue a 20-day certificate on a test listener | expiry alert fires | screenshot: expiry alert | ☐ pass ☐ fail | | |
| T26 | F10 SCIM connector down | stop the connector, then disable an identity | CAEP still revokes ≤ 5 min; connector alert ≤ 15 min | log extract: CAEP revoke and connector alert | ☐ pass ☐ fail | | |
| T27 | cut-over step 3 | move one application's DNS to the Gateway API edge and back | each move ≤ 5 min [A]; no failed requests | failover timing per DNS move | ☐ pass ☐ fail | | |
| T28 | cut-over step 5 | switch one route from report-only to enforce and back | both transitions effective ≤ 5 min [A] | log extract: policy mode transitions | ☐ pass ☐ fail | | |
| T29 | encryption in transit and at rest | attempt plaintext connections to every Gateway listener, broker listener and collector endpoint; read encryption settings of the cluster secret store, broker volumes and telemetry stores | every plaintext attempt refused; encryption enabled on every store listed | log extract: refused connections and TLS handshake per endpoint; configuration extract per store | ☐ pass ☐ fail | | |
| T30 | security logs reach the client's collector | generate one refused token at the edge, one Kubernetes audit event and one broker authorization failure | all three arrive at the client's SIEM collector (SRA-SEC-001) ≤ 5 min [A] | screenshot: the three events in the collector, timestamped | ☐ pass ☐ fail | | |
| T31 | F4 cluster control plane down (non-production only) | on the non-production cluster, make the Kubernetes API unreachable under a synthetic load on one deployed application, attempt one deploy, then restore by the client's disaster-recovery runbook | the running application keeps serving throughout; the deploy is refused, not silently queued; control plane restored within the runbook's stated time | synthetic-probe log; refused-deploy log extract; restore timeline against the runbook | ☐ pass ☐ fail | | |

## 3 · Validated components and versions (filled at test)

Every component and every test tool, with its exact version on the test date.

**Table 3.** Validated components and versions (filled at test)

| Component or tool | Product and exact version | Validated in |
|---|---|---|
| Kubernetes, each cluster | | T1, T2, T21, T31 |

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| Component or tool | Product and exact version | Validated in |
|---|---|---|
| Gateway API implementation and CRD channel | | T4, T7, T19, T20, T27, T29 |
| API catalog | | T4 |
| Identity provider, SCIM and CAEP connectors | | T5, T14, T15, T22, T26 |
| Kafka brokers | | T9, T11, T29 |
| OTel Collector, SDKs, semantic-conventions version | | T10–T12, T23, T24, T29 |
| Observability stores | | T10, T18, T24, T29 |
| Collaboration suite | | T14, T15 |
| Servers, endpoints, room and phone devices: model and firmware per device | | T16 |
| Client SIEM collector (SRA-SEC-001) | | T30 |
| Test tool: load generator | | T7, T9, T12, T19 |
| Test tool: API security tester | | T6 |
| Test tool: accessibility audit tool | | T17 |
| Test tool: TLS and port scanner | | T29 |

## 4 · Acceptance record

**Acceptance terms:**

- **Acceptance is positive and signed** by the client's named acceptor below — never by silence.
- **Review window:** 10 business days from delivery of the results [A]. **Fix window:** 10 business days for any failed case [A], followed by one re-review. The 10-and-10 are defaults from the 5–30-day range in the public contracts; set per contract.
- **Acceptance is signed on every T-case except T8.** T8 (R5, 30-day availability) is recorded at day 30 of production; a T8 result below its criterion is a failed case under the fix window above.
- **The warranty starts on the date of signed acceptance.**

**Table 4.** Acceptance record

| | Name | Role | Signature | Date |
|---|---|---|---|---|
| Client acceptor | | | | |
| Symbeeo test lead | | | | |
| Symbeeo practice lead | | | | |

Waivers and open defects are recorded at acceptance. F4 is not waived: it is tested by T31 in non-production.

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Each vendor's tool shows you their option. We show you all of them against one requirement.

## Compared. Then Delivered.

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