

GOVERNED TEMPLATE RENDERING REFERENCE: CI/CD PIPELINE DESIGN DEFAULT V2 (DRAFT)

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CI/CD PIPELINE DESIGN · PROJECT ARTIFACT

SPECIRA

# CI/CD Pipeline Design: Dispatch Modernization

Meridian Field Services: instructional example, not project evidence

DRAFT · WATERMARK POLICY: DRAFT\_ONLY

template cicc\_pipeline v2 · pack: specira\_default\_delivery

a promotion contract: stages prove claims, gates cite the strategy

## §1 Pipeline Stages

mandatory1 decision1 evidence rule

validators: every\_stage\_states\_what\_it\_proves · artifact\_built\_once\_promoted\_by\_reference · secrets\_use\_short\_lived\_scoped\_credentials

Each stage proves a claim before the next runs. One immutable artifact, promoted by reference; a rebuild anywhere breaks the provenance chain and fails the check.

| Stage            | Proves                                                                              | Gates run here                                                      |
|------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 1 · build        | The four services compile and package: one immutable versioned image set per commit | unit                                                                |
| 2 · verify       | Logic and contracts hold against production-shaped dependencies                     | integration · contract                                              |
| 3 · stage-deploy | Production-shaped runtime works: images promoted <b>by reference</b>                | smoke + liveness (DV-1, DV-2 <sup>[1]</sup> ) · e2e critical · a11y |
| 4 · prod-deploy  | Real traffic holds: rolling deploy behind the health gates (§3)                     | health gates                                                        |

**Provenance:** image digest pinned commit-to-production. **Credentials:** the platform's workload identity issues short-lived stage-scoped tokens ([machine identity<sup>\[2\]</sup>](#)); the build runner cannot deploy. The pipeline definition lives as code in the repository, cited.

§2 Testing Gates

mandatory

1 decision

1 evidence rule

validators: every\_gate\_cites\_test\_strategy\_layer · no\_inline\_test\_layer\_definitions · informational\_gates\_carry\_promotion\_rule

Gates *SELECT* from the strategy's ladder: every row is a citation; "informational" never means ignored.

| Gate (cites the ladder)                           | Stage    | Status        | Owner               | Note                                                                                                   |
|---------------------------------------------------|----------|---------------|---------------------|--------------------------------------------------------------------------------------------------------|
| <a href="#">unit<sup>[3]</sup></a>                | 1        | BLOCKING      | Committing engineer | Fix before merge                                                                                       |
| <a href="#">contract<sup>[3]</sup></a>            | 2        | BLOCKING      | API owner           | Instantiates the promises ( <a href="#">endpoint specs<sup>[4]</sup></a> )                             |
| <a href="#">integration<sup>[3]</sup></a>         | 2        | BLOCKING      | Feature engineer    | n/a                                                                                                    |
| <a href="#">e2e critical paths<sup>[3]</sup></a>  | 3        | BLOCKING      | QA owner            | The pilot-critical set only ( <a href="#">risk prioritization<sup>[3]</sup></a> )                      |
| <a href="#">performance nightly<sup>[5]</sup></a> | off-path | informational | E. Sandoval         | <b>Promotion rule:</b> two consecutive nightly regressions past 10% on any PS series turns it blocking |
| <a href="#">accessibility audit<sup>[6]</sup></a> | 3        | informational | QA owner            | <b>Promotion rule:</b> flips blocking at pilot exit (§4 question)                                      |

No test layer defined here: the strategy owns what exists; this table only wires.

§3 Deployment Strategy & Rollback

mandatory

2 decisions

1 evidence rule

validators: deployment\_strategy\_logged\_as\_decision · rollback\_trigger\_cites\_deployment\_verification\_id · dora\_targets\_stated\_per\_metric

Decision: rolling with health gates

**What:** rolling replaces instances behind the health check; blue-green doubles capacity for a clean cutover; canary splits traffic against live metrics. **Why considered:** pilot traffic is one hub; a meaningful canary slice of one hub's dispatchers is too small to move the metrics before full exposure, and blue-green's capacity double buys nothing at four services.

**Findings:** rolling wins at pilot; the canary re-decision trigger is hub three, when traffic can carry a meaningful slice ([deployment strategy<sup>\[7\]</sup>](#)).

**Rollback, automated:** triggers cited from [the rollback triggers<sup>\[1\]</sup>](#): error-rate and latency ceilings watched by the platform's release automation; breach rolls back *without a meeting*; the release owner's manual pull authority ([OD-1<sup>\[7\]</sup>](#)) complements the automation. **Branch flow:** trunk-based with short-lived branches and flags; feature-branch flow rejected (integration pain outweighs release-scheduling control for one team) ([branch flow<sup>\[7\]</sup>](#)).

| DORA measure          | Target                           | Measured from                                                                                  |
|-----------------------|----------------------------------|------------------------------------------------------------------------------------------------|
| Deployment frequency  | on demand; ≥ weekly during pilot | Pipeline data, computed in the delivery dashboard ( <a href="#">dashboards<sup>[8]</sup></a> ) |
| Lead time for changes | < 1 day                          |                                                                                                |
| Change-failure rate   | < 10%                            |                                                                                                |
| Time to restore       | < 1 h (the automation's ceiling) |                                                                                                |

#### §4 Open Questions

mandatory

1 decision

| Question                                                                                                                   | Owner    | Answer by    | Blocks                            |
|----------------------------------------------------------------------------------------------------------------------------|----------|--------------|-----------------------------------|
| Does the accessibility gate flip to blocking at pilot exit or at the week-6 value review (two candidate events, one gate)? | QA owner | Sep 26, 2026 | The gate table's stage-3 row only |

#### Refs References & Package Contents

In the Specira workspace

- specira [1] Deployment verification: DV-1, DV-2, rollback triggers [app.specira.ai/projects/dispatch-modernization/artifacts/deployment-verification](https://app.specira.ai/projects/dispatch-modernization/artifacts/deployment-verification)
- 
- specira [2] Auth & authz policy: machine identity (workload tokens)  
[app.specira.ai/projects/dispatch-modernization/artifacts/auth-authz-policy#machine](https://app.specira.ai/projects/dispatch-modernization/artifacts/auth-authz-policy#machine)
- 
- specira [3] Test strategy: the ladder, risk prioritization [app.specira.ai/projects/dispatch-modernization/artifacts/test-strategy](https://app.specira.ai/projects/dispatch-modernization/artifacts/test-strategy)
- 
- specira [4] API contracts: endpoint specifications (contract tests' source)  
[app.specira.ai/projects/dispatch-modernization/artifacts/api-contracts](https://app.specira.ai/projects/dispatch-modernization/artifacts/api-contracts)
- 
- specira [5] Performance test scenarios: the nightly PS series [app.specira.ai/projects/dispatch-modernization/artifacts/performance-test-scenarios](https://app.specira.ai/projects/dispatch-modernization/artifacts/performance-test-scenarios)
- 
- specira [6] NFR catalog: NFR-U3 accessibility [app.specira.ai/projects/dispatch-modernization/artifacts/nfr-catalog#usability](https://app.specira.ai/projects/dispatch-modernization/artifacts/nfr-catalog#usability)
- 
- specira [7] Decision log: deployment strategy, branch flow, OD-1 [app.specira.ai/projects/dispatch-modernization/artifacts/decision-log](https://app.specira.ai/projects/dispatch-modernization/artifacts/decision-log)
- 
- specira [8] Observability: the delivery dashboard [app.specira.ai/projects/dispatch-modernization/artifacts/observability-monitoring#dashboards](https://app.specira.ai/projects/dispatch-modernization/artifacts/observability-monitoring#dashboards)
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