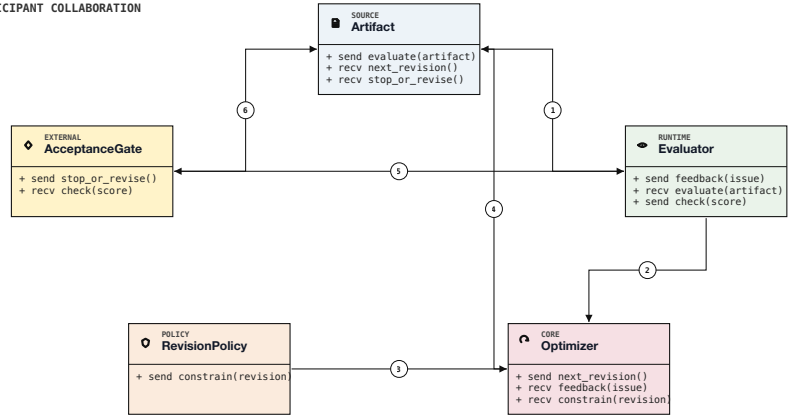
W05 Evaluator–optimizer

Workflow · A² A2/A3 · cycle role collaboration

Revise an artifact using iterative feedback.

STRUCTURE · PARTICIPANT COLLABORATION



PATTERN INTERFACE

context
An artifact is improved through explicit evaluation and revision.

trigger
A candidate receives a score, failure, or critique.

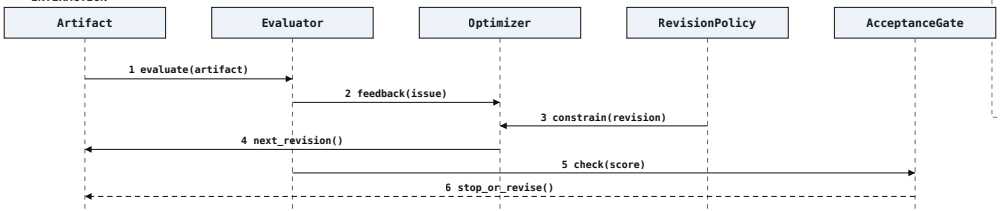
structure
Generator, evaluator, revision input, and stopping rule.

effect
A revised candidate is selected with recorded evaluation evidence.

CONTRACT ANNOTATIONS

requires	Evaluation criteria are observable and revision budget is bounded.
ensures	Selected output maps to a passing or best-recorded evaluation.
invariant	Final independent evaluation is not merely the optimizer's repeated selector.
violation	Evaluator errors, ties, or exhaustion terminate with an explicit status.

INTERACTION



MESSAGE TRACE `1 evaluate(artifact) → 2 feedback(issue) → 3 constrain(revision) → 4 next_revision() → 5 check(score) → 6 stop_or_revise()`

Evidence: 17/41 repositories, 17/36 families; 17 trajectories (9 multi-checkpoint); exact audit: not sampled.

Variation: Rubric evaluator, model judge, best-of-N, and iterative revision.

Negative control: One model call that says it improved itself is not enough.