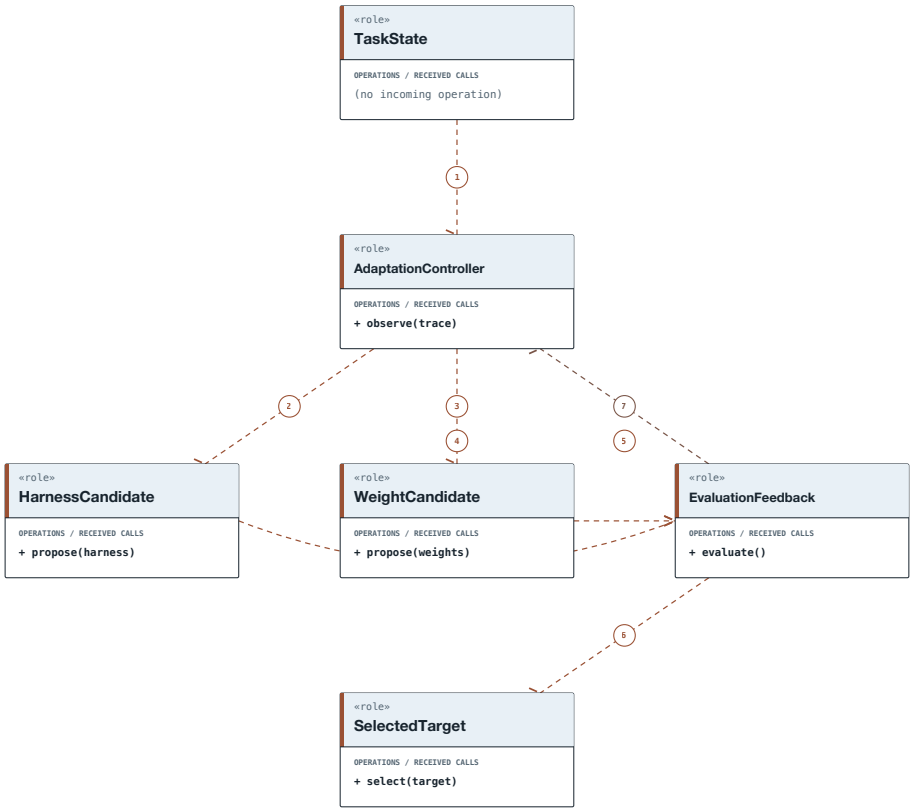
E08 On-demand adaptation target selection

Evolution / UML CLASS VIEW / ANALYTICAL MODEL

Choose harness versus weight adaptation.

UML CLASS VIEW

dashed arrow: call dependency · brown: return/failure · analytical, not an observed trace



POINTCUT / PATTERN INTERFACE

CONTEXT	An embodied agent encounters a task or distribution shift.
TRIGGER	An adaptation controller evaluates task performance and cost.
STRUCTURE	Adaptation target policy, harness and weight candidates, and evaluation feedback.
EFFECT	The controller selects a declared adaptation target and records why.

CONTRACT / REQUIRED BEHAVIOR

REQUIRES	Task state, candidate adaptation targets, and cost or risk are observable.
ENSURES	The selected target is compatible with the current execution environment.
INVARIANT	Adaptation does not silently combine targets outside the declared policy.
VIOLATION	Unsupported target or uncertain evidence falls back to a safe target or no adaptation.

RELATIONSHIPS / ANALYTICAL CALLS

number · caller → callee · message

1 TaskState → AdaptationController observe(trace)
2 AdaptationController → HarnessCandidate propose(harness)
3 AdaptationController → WeightCandidate propose(weights)
4 HarnessCandidate → EvaluationFeedback evaluate()
5 WeightCandidate → EvaluationFeedback evaluate()
6 EvaluationFeedback → SelectedTarget select(target)
7 EvaluationFeedback ↩ AdaptationController rollback(failure)

VARIATION / TEST / NEGATIVE CONTROL

VARIATION	Harness adaptation, weight adaptation, recursive adaptation, and embodied task domain.
TEST_OBLIGATION	Test target choice, unsupported change, reversibility, and transfer.
NEGATIVE_CONTROL	A paper citation or generic fine-tuning script is not an E08 instance.