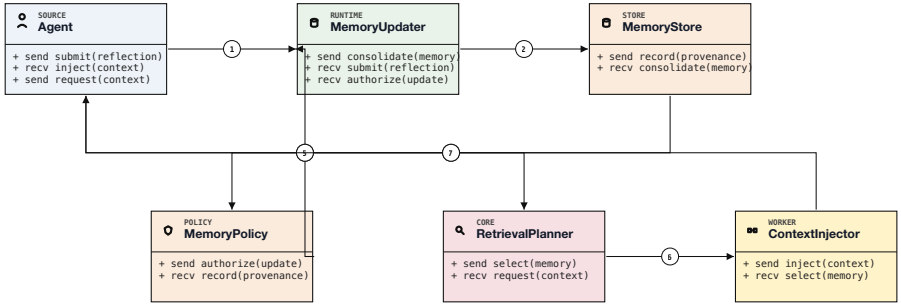
P28 Agent-maintained memory pipelines

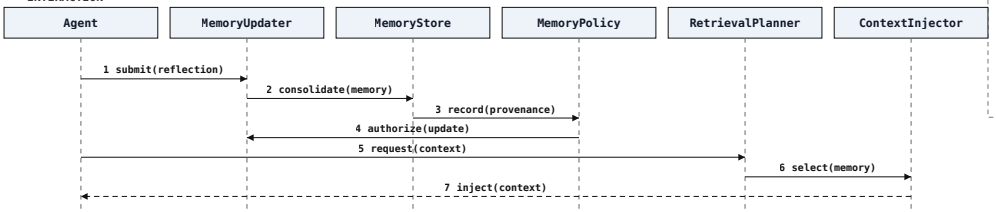
Primitive · A² A3 · memory role collaboration

Update reusable task memory.

STRUCTURE · PARTICIPANT COLLABORATION



INTERACTION



PATTERN INTERFACE

context
The harness selects and stores knowledge across tasks or sessions.

trigger
An observation, reflection, or memory write is processed.

structure
Selection, consolidation, provenance, access control, retrieval, and revision.

effect
Stored memory is traceable, retrievable within scope, and updateable.

CONTRACT ANNOTATIONS

requires	Candidate memory has a source and intended scope.
ensures	Retrieval identity and revision history survive consolidation.
invariant	Untrusted memory cannot silently redefine instructions or permissions.
violation	Stale, poisoned, or conflicting memory is quarantined or rejected.

MESSAGE TRACE 1 submit(reflection) → 2 consolidate(memory) → 3 record(provenance) → 4 authorize(update) → 5 request(context) → 6 select(memory) → 7 inject(context)

Evidence: 38/41 repositories, 34/36 families; 38 trajectories (18 multi-checkpoint); exact audit: not sampled.

Variation: Observational memory, vector store, summary file, scoped project memory.

Negative control: A chat transcript retained in memory is not an update pipeline.