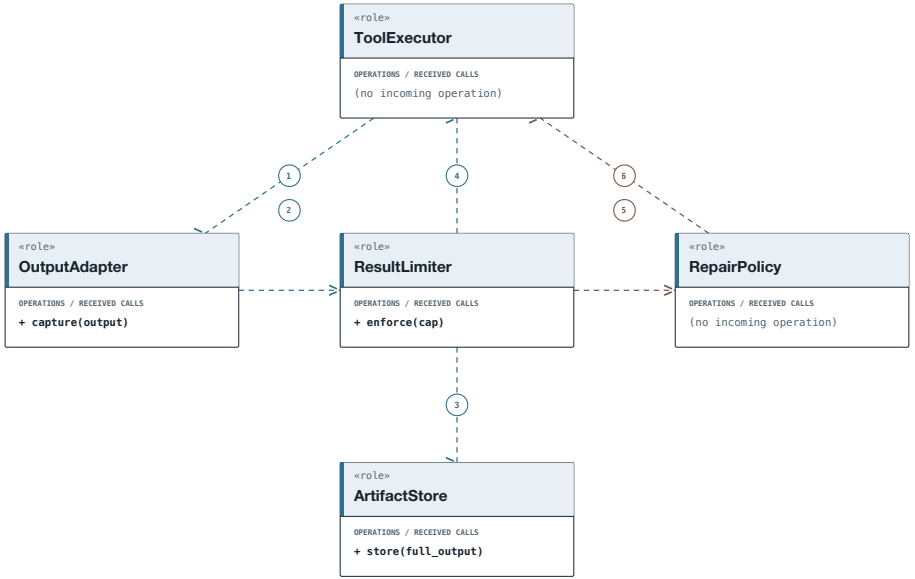
P10 Capped output and remediation errors

Primitive / UML CLASS VIEW / ANALYTICAL MODEL

Bound observations while enabling recovery.

UML CLASS VIEW

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



POINTCUT / PATTERN INTERFACE

CONTEXT	A tool or environment can emit output larger than the context allowance.
TRIGGER	Output crosses a size or token cap.
STRUCTURE	Limit policy, truncation metadata, and access to complete artifacts.
EFFECT	The harness returns a bounded observation with explicit recovery information.

CONTRACT / REQUIRED BEHAVIOR

REQUIRES	Output size is measurable and original content remains addressable.
ENSURES	The consumer knows truncation occurred and can seek the full result.
INVARIANT	Truncation never masquerades as complete evidence.
VIOLATION	Oversized or unavailable output returns a typed remediation error.

RELATIONSHIPS / ANALYTICAL CALLS

number · caller → callee · message

1 ToolExecutor → OutputAdapter capture(output)
2 OutputAdapter → ResultLimiter enforce(cap)
3 ResultLimiter → ArtifactStore store(full_output)
4 ResultLimiter → ToolExecutor return(bounded)
5 ResultLimiter ↩ RepairPolicy emit(remediation)
6 RepairPolicy ↩ ToolExecutor revise(observation)

VARIATION / TEST / NEGATIVE CONTROL

VARIATION	Character, line, token, structure-aware caps, summaries, and repair hints.
TEST_OBLIGATION	Test exact limit, over-limit, non-UTF8, complete-artifact retrieval, and retry.
NEGATIVE_CONTROL	A logging length limit unrelated to agent observations does not count.