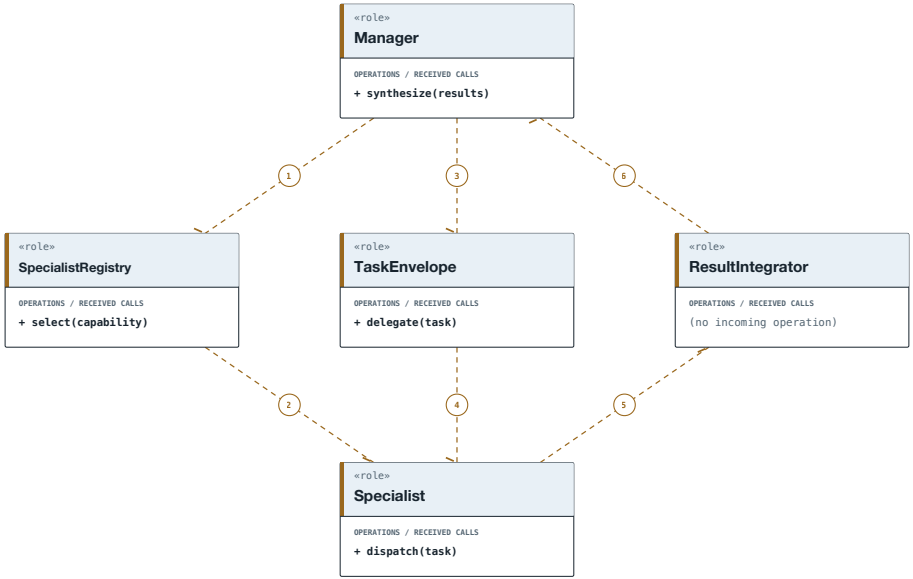
W06 Manager coordination

Workflow / UML CLASS VIEW / ANALYTICAL MODEL

Keep a coordinating agent in control of specialists.

UML CLASS VIEW

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



POINTCUT / PATTERN INTERFACE

CONTEXT	A manager remains responsible while specialists perform parts of a task.
TRIGGER	The manager delegates, selects, or calls a specialist.
STRUCTURE	Manager-owned plan, specialist interfaces, and integrated response.
EFFECT	The manager synthesizes specialist outputs and preserves responsibility.

CONTRACT / REQUIRED BEHAVIOR

REQUIRES	Manager and specialist roles are distinguishable.
ENSURES	Specialist outputs are attributed and integrated under manager authority.
INVARIANT	Delegation does not transfer final goal ownership implicitly.
VIOLATION	Specialist conflict, failure, or omission is resolved or surfaced by the manager.

RELATIONSHIPS / ANALYTICAL CALLS

number · caller → callee · message

1 Manager → SpecialistRegistry select(capability)
2 SpecialistRegistry → Specialist return(specialist)
3 Manager → TaskEnvelope delegate(task)
4 TaskEnvelope → Specialist dispatch(task)
5 Specialist → ResultIntegrator return(result)
6 ResultIntegrator → Manager synthesize(results)

VARIATION / TEST / NEGATIVE CONTROL

VARIATION	Hierarchical Crew, supervisor, coordinator, and manager-agent patterns.
TEST_OBLIGATION	Test specialist disagreement, failure, and manager synthesis.
NEGATIVE_CONTROL	A coordinator that merely launches tasks without integration is W04.