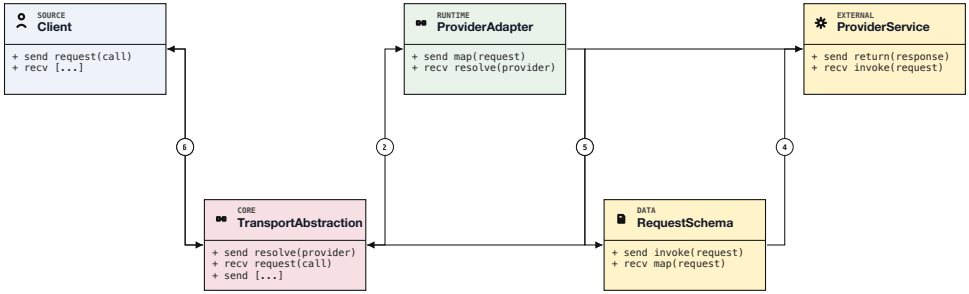
P08 Multi-provider transport abstraction

Primitive · A² A1 · bridge role collaboration

Swap model backends.

STRUCTURE · PARTICIPANT COLLABORATION



PATTERN INTERFACE

context
A harness can select among model backends.

trigger
The runtime resolves or invokes a model provider.

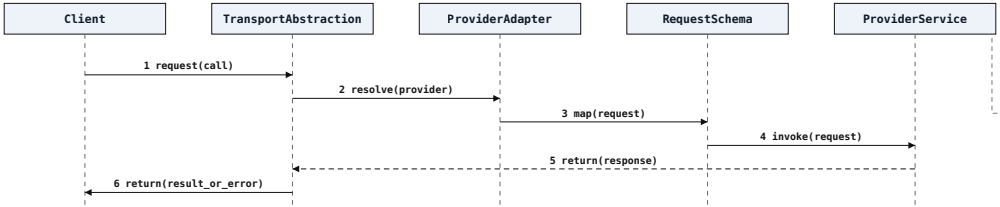
structure
A shared request/response/error boundary plus provider-specific implementations.

effect
Backends are interchangeable through a declared interface, with differences exposed.

CONTRACT ANNOTATIONS

requires	Provider identity, model configuration, and common result types are available.
ensures	Every provider satisfies the same invocation contract or reports unsupported behavior.
invariant	Provider-specific state remains behind the adapter boundary.
violation	Authentication, rate, schema, and capability errors map to explicit types.

INTERACTION



MESSAGE TRACE `1 request(call) → 2 resolve(provider) → 3 map(request) → 4 invoke(request) → 5 return(response) → 6 return(result_or_error)`

Evidence: 31/41 repositories, 28/36 families; 31 trajectories (18 multi-checkpoint); exact audit: not sampled.

Variation: Registry, factory, adapter, transport, retry advice, and capability discovery.

Negative control: A single hard-coded vendor client is not the abstraction.