

Multi-provider failover method

Method revision: 1

Algorithm identifier: single-objective-continuity-v2

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Canonical HTML: <https://grandet.ai/methods/multi-provider-failover-v1/>

Versioned JSON: <https://grandet.ai/methods/multi-provider-failover-v1/index.json>

Grandet freezes an ordered RoutePlan of eligible routes and considers only supported, replay-safe failures within its duration and hard-cost envelope.

Public invariants

- The RoutePlan freezes one primary route and an ordered set of fallbacks before execution; it does not broadcast the request.
- Fallbacks must remain within the task hard budget, the fixed absolute premium ceiling, and the fixed percentage premium ceiling.
- Automatic switching is limited to supported transient classes and work proven replay-safe; uncertain side effects stop.
- Multi-domain protection requires at least two independently identified gateway operator domains.

Limitations

- Failover reduces interruption risk but does not guarantee uninterrupted service.
- Authentication, policy, invalid-request, content, partial-response, cancellation, and unknown failures do not authorize blind replay.
- The website describes the frozen-plan contract and never executes or recalculates a route.

Canonical source modules

- lib/control-plane/routes/continuity.ts
- lib/control-plane/routes/failure-domains.ts

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