

OPS-014 | Module Ownership Boundary Contract v1

Module Data Ownership and Cross-module Boundaries

Bounded outcome: Define authoritative module data and invariant ownership, reject unowned writes, choose explicit cross-boundary read/command/event paths, and preserve context-specific meaning when identities are shared.

Evidence path

Boundary	Inspectable claim	Explicit non-claim
aggregate owner	Treat aggregate owner as a separate evidence boundary and close it only with inspectable observations from the bounded fixture.	A bounded context or module does not have to be a separately deployed microservice.
owner write api	Treat owner write api as a separate evidence boundary and close it only with inspectable observations from the bounded fixture.	Owning domain data does not require a physically separate database for every module.
anti corruption layer	Treat anti corruption layer as a separate evidence boundary and close it only with inspectable observations from the bounded fixture.	Sharing an identifier does not imply one shared domain entity or shared attributes.
published language	Treat published language as a separate evidence boundary and close it only with inspectable observations from the bounded fixture.	Events are not mandatory for every cross-module interaction.
consumer projection	Treat consumer projection as a separate evidence boundary and close it only with inspectable observations from the bounded fixture.	Physical database separation alone is not proof of correct ownership.
EVIDENCE BOUNDARY	Separate source facts, local observations, bounded inferences, and human decisions.	Unavailable production behavior remains NOT_OBSERVED or NEEDS_VERIFICATION.

Acceptance gate: Accept only when every critical dimension has inspectable evidence, the negative probe behaves as predicted, and changed-context transfer preserves a residual limitation.

OPS-014 | Blank Evidence Record

Complete every field from retained observations; mark unavailable evidence OPEN.

Canonical field	Observed evidence / value	Evidence type	State
Module		OBSERVED / INFERRED	OPEN
Owned Data		OBSERVED / INFERRED	OPEN
Owned Invariant		OBSERVED / INFERRED	OPEN
Shared Identity		OBSERVED / INFERRED	OPEN
Allowed Read		OBSERVED / INFERRED	OPEN
Allowed Command		OBSERVED / INFERRED	OPEN
Event Contract		OBSERVED / INFERRED	OPEN
Forbidden Direct Write		OBSERVED / INFERRED	OPEN
Translation Rule		OBSERVED / INFERRED	OPEN
Evidence		OBSERVED / INFERRED	OPEN
Open Boundary Risk		OBSERVED / INFERRED	OPEN

Source projection: derived_text/tables/module_ownership_boundary_contract.md

OPS-014 | Evidence Index

Link every decision to a source, command, output, or explicitly bounded inference.

ID	Evidence type	Source / command	Observation	Supports / falsifies	State
E-01	BASELINE	derived_text/tables/ module_ownership_boundary_cont ract.md			OPEN
E-02	RUNTIME	python3 lab/OPS014-LAB1/run_checks.py			OPEN
E-03	NEGATIVE PROBE	A bounded context or module does not have to be a separately deployed microservice.			OPEN
E-04	RECOVERY	Aggregate Owner evidence is inspectable and its non-claim remains explicit.			OPEN
E-05	TRANSFER	EX4			OPEN

Truth rule: Runtime and security claims require retained output from the supplied bounded fixture. Source facts and static readiness are not promoted into production observations.

OPS-014 | Decision Walkthrough

Run the evidence gates in order and preserve unresolved boundaries.

Case	Change	Prediction	Evidence to retain	Decision
SIMPLE	EX1	Treat aggregate owner as a separate evidence boundary and close it only with inspectable observations from the bounded fixture.	Retain bounded positive or negative evidence.	OPEN
WRONG APPROACH	EX2	Treat owner write api as a separate evidence boundary and close it only with inspectable observations from the bounded fixture.	Retain bounded positive or negative evidence.	OPEN
EDGE OR FAILURE	EX3	Treat anti corruption layer as a separate evidence boundary and close it only with inspectable observations from the bounded fixture.	Retain bounded positive or negative evidence.	OPEN
TRANSFER NEAR	EX4	Treat published language as a separate evidence boundary and close it only with inspectable observations from the bounded fixture.	Retain bounded positive or negative evidence.	OPEN

Allowed states: ACCEPT, REPAIR, DEFER

Guardrail: A local deterministic fixture does not prove production identity, authorization, confidentiality, integrity, availability, recovery, enforcement, or system-wide security.

OPS-014 | Failure and Repair

Falsify shortcuts before accepting the bounded decision.

Failure	Signal	Repair	Recovery check
A bounded context or module does not have to be a separately deployed microservice.	No retained evidence closes the aggregate owner boundary.	Retain the fixture output that distinguishes observed aggregate owner facts from inference, unknowns.	Aggregate Owner evidence is inspectable and its non-claim remains explicit.
Owning domain data does not require every module to use a physically separate database in.	No retained evidence closes the owner write api boundary.	Retain the fixture output that distinguishes observed owner write api facts from inference, unknowns.	Owner Write Api evidence is inspectable and its non-claim remains explicit.
Sharing the same identifier across modules does not mean the modules share the same domain.	No retained evidence closes the anti corruption layer boundary.	Retain the fixture output that distinguishes observed anti corruption layer facts from inference.	Anti Corruption Layer evidence is inspectable and its non-claim remains explicit.
Events are not the mandatory solution for every cross-module interaction.	No retained evidence closes the published language boundary.	Retain the fixture output that distinguishes observed published language facts from inference.	Published Language evidence is inspectable and its non-claim remains explicit.

Transfer case: EX4

Transfer observation: _____

Recomputed decision: _____

OPS-014 | Review and Sign-off

Acceptance requires inspectable evidence plus an explicit residual limitation.

Review control	Required response	Reviewer evidence	Disposition
Canonical fields addressed	YES		OPEN
Negative probe retained	YES		OPEN
Recovery evidence retained	YES		OPEN
Changed-context transfer complete	YES		OPEN
Source facts separated from inference	YES		OPEN
Residual limitation explicit	YES		OPEN
Final bounded decision	ACCEPT / REPAIR / DEFER		OPEN

First explicit non-claim: A bounded context or module does not have to be a separately deployed microservice.

Reviewer: _____ Date: _____ Record owner: _____