THE LIBRARY REGISTER

Every part and product of the 49GAION Library, by pin: version, commit and hash.

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49G Ltd.
ADGM, Abu Dhabi, UAE

The Library register

Every part and product of the 49GAION Library, by pin: version, commit and hash.

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Source: 49g-holding/49GAION-protocol · library/README.md @ c4de68c
Precedence: 3 · the Library register: every part by pin
Built: 31 October 2026 · by 49AIOC-OCO, from the Markdown at that commit; no word changed

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The 49GAION Library

The 49GAION Library holds every ready-made part of 49GAION: its AIOC parts with their mother blueprints, its capability parts, its unit cards, its contracts and its method catalogues (Standard §3.1). Built once, configured per [ORG]AION, never rebuilt. This file is its register: every part is named here once.

Each [ORG]AION configures a part inside the organisation, through its own live AI. A part is a starting point, never a finished configuration made elsewhere and installed as it is. An [ORG]AION may improve a part and, by its own choice, give it back (Protocol §10, item 4).

The Library is the greatest asset an [ORG]AION has: patterns and models, AIOCs with their blueprints and their operating models, instructions and processes, panels and cores, and the patterns of whole organisations. Each organisation takes from it and personalises it; few will build something wholly new for a long time to come. What enters the Library is challenged like every 49GAION change and approved by its governing seat before others use it. The part 49GAION Charter is the part from which the core of every [ORG]AION, its root, is made.

Sources: DR-0019, DR-0041; GOV, 22 October 2026.

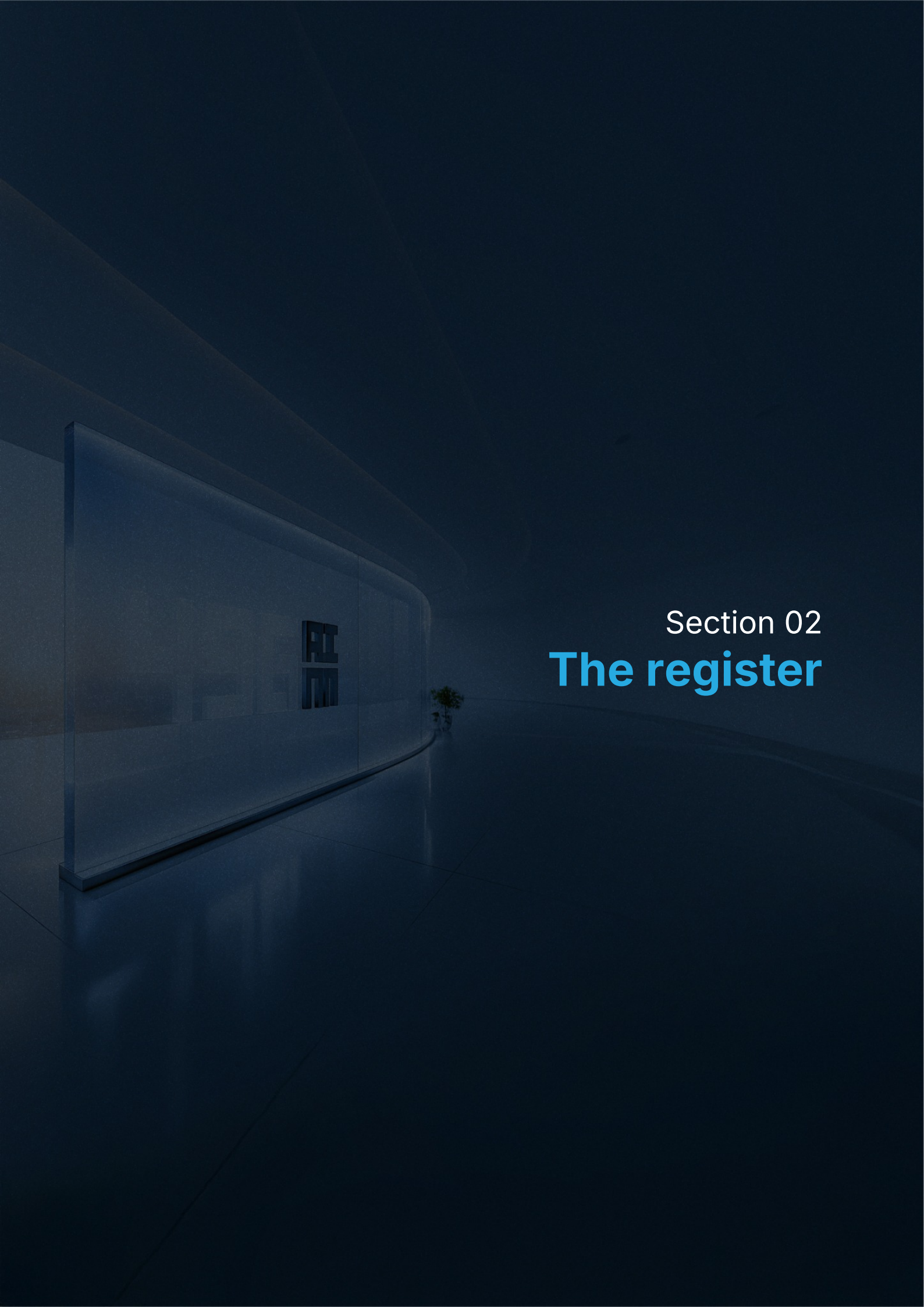


Section 01

How a part is held

- **Its card** sits in library/cards/, valid against spec/schemas/part-card.schema.json, DRAFT with last_result NOT_RUN until its fixed test has run once with recorded evidence (Protocol §10, item 3).
- **Its rules** sit in its Protocol section, and its place in the Standard in §3.1.
- **Its mother blueprint**, for an AIOC part, is written in its own writing repository, for any organisation, with [ORG] placeholders and no organisation's data. The Library holds it by pin: repository, path, version, commit and the SHA-256 of the blueprint file. A new version reaches the Library only by a pull request that moves the pin, merged by the governing seat of 49GAION. An organisation's instance keeps its own values in its own records repository.
- **One home.** The text lives in one place; the Library holds its pin, never a second copy.
- **A pin before its merge.** A pin may name the head commit of the writing repository's pull request that carries the version; when that pull request is merged, the pin moves to the merged commit, with the same SHA-256.
- **A mother repository.** Where the writing repository of a part's first instance holds an organisation's data, the mother is written in the part's own public mother repository, 49GAION-<part>, laid out and checked as a writing repository, and pinned here like any mother. Source Lifecycle and Product Core are the first two.

Sources: DR-0024.



Section 02

The register

The Library is the one store of everything 49GAION has built and knows, in two sections. **Parts**: everything 49GAION builds, from a Cell to an AIOC, with its blueprint, card, fixed test, contracts and method catalogues, and its whole history (versions, lineage, decisions, lessons, test results), held in its own home and named here. **Products**: what the Library offers, a single part offered alone or an assembly of parts placed side by side and connected; an assembly's blueprint lists its parts by pin, their connections, what it sets and one shared test, and its features are its parts' features (Standard §3.1, items 11 and 12).

Sources: DR-0025.

Parts

AIOC parts

Part	In an [ORG]AION	Card	Protocol	Standard	Fixed test	Mother blueprint	Status
49GAION Source Lifecycle	[ORG]AIOC-SL, the first stage	source-lifecycle.part-card.json v4	§13	§3.1, item 7	TEST-SOURCE-LIFECYCLE v4	github.com/49g-holding/49GAION-source-lifecycle (its mother repository, 49GAION/DR-0024), blueprint/SL-BLUEPRINT.md, v0.1.6, commit 17f60d195ea29803d50eb815977649328bdce76b, SHA-256 0068e9c0b8481b509b98375231857006d2ed080fee08cb5a0390d095e7462ad3; its fixed test tests/TEST-SL.md v1	DRAFT, NOT_RUN
49GAION Target Operating Model	[ORG]AIOC-TOM, the second stage	target-operating-model.part-card.json v3	§19	§3.1, item 4	TEST-TARGET-OPERATING-MODEL v3	github.com/49g-holding/49GAION-target-operating-model (its mother repository, 49GAION/DR-0024, DR-0044), blueprint/TOM-BLUEPRINT.md, v0.6.3, commit 3b0f5e3437997639e94b667dda9f61d9c01b9c0d, SHA-256 07d582843d52bf89d6a50206ca25d8247731174300ac6b069237a3a1624371ba; its fixed test tests/TEST-TOM.md v5	DRAFT, NOT_RUN
49GAION Process and Position Design	[ORG]AIOC-PPD, the third stage	process-and-position-design.part-card.json v4	§17	§3.1, item 3	TEST-PROCESS-AND-POSITION-DESIGN v4	github.com/49g-holding/49GAION-process-and-position-design (its mother repository, 49GAION/DR-0024, DR-0044), blueprint/PPD-BLUEPRINT.md, v0.5.3, commit d3a6c4876025c23b611953e162af266f4f904eed, SHA-256 b5146e80786c367d756219cdb714ca0121f3e252d9a4661282e82a23e4f23958; its fixed test tests/TEST-PPD.md v3	DRAFT, NOT_RUN

The Library register

Part	In an [ORG]AION	Card	Protocol	Standard	Fixed test	Mother blueprint	Status
49GAION Delivery and Implementation	[ORG]AIOC-DI, the last stage	delivery-and-implementation.part-card.json v3	§20	§3.1, item 5	TEST-DELIVERY-AND-IMPLEMENTATION v3	github.com/49g-holding/49GAION-delivery-and-implementation (its mother repository, 49GAION/DR-0024, DR-0044), blueprint/DI-BLUEPRINT.md, v0.2.3 (complete, slices 1 to 4), commit e952c806faff4db47794019c1d40db2ff7e4db7a, SHA-256 b340abed8ded63eb879b295ef9367476add048017ed4715fa7ce0446c7b06998; its fixed test tests/TEST-DI.md v1	DRAFT, NOT_RUN
49GAION Product Core	[ORG]AIOC-PC	product-core.part-card.json v1	§18	—	TEST-PRODUCT-CORE v1	github.com/49g-holding/49GAION-product-core (its mother repository, 49GAION/DR-0024), blueprint/PC-BLUEPRINT.md, v0.1.3, commit bd176bf4caa35fb2f780d1475d580c0634021770, SHA-256 b5e27dbf77f6bcb4bbc31d2dc2472bf17c95f6dcd8709a73c72fc8cca981088b; its fixed test tests/TEST-PC.md v1	DRAFT, NOT_RUN
49GAION Operations Event Register	[ORG]AIOC-OER, the record of the live operation, beside Source Lifecycle	operations-event-register.part-card.json v1	§22	§3.1, item 13	TEST-OPERATIONS-EVENT-REGISTER v1	github.com/49g-holding/49GAION-operations-event-register (its mother repository, 49GAION/DR-0024, DR-0027), blueprint/OER-BLUEPRINT.md, v0.1.3, commit b90633b1763299be9119dd4c3847826b939b9d9b, SHA-256 56b822a4b7d0c534f799dbfb9df2e6479dbd0c511f11ca4551cb5bb599d84933; its fixed test tests/TEST-OER.md v1	DRAFT, NOT_RUN
49GAION Charter	[ORG]AIOC-CH, the root of every [ORG]AION, with the Gateway, Records and Work Pods	charter.part-card.json v1	§23	§3.1, item 15	TEST-CHARTER v1	github.com/49g-holding/49GAION-charter (its mother repository, 49GAION/DR-0024, DR-0029), blueprint/CH-BLUEPRINT.md, v0.1.3, commit bbfff83e1af13f83214e7510e0d4b7463358dc0b, SHA-256 4c41d7f22dcf79557eb0298766f170d25dede9f16edec605e15dbaf5b9b88df4; its fixed test tests/TEST-CH.md v1	DRAFT, NOT_RUN

The Library register

Part	In an [ORG]AION	Card	Protocol	Standard	Fixed test	Mother blueprint	Status
49GAION Engine Room	[ORG]AIOC-ER, the one hub for every AI engine and every paid external service; each unit draws from it with its own quota, and it never decides a unit's need	not yet written	—	—	not yet written	not yet written	named only, built later (49GAION/DR-0026)

Capability parts and unit cards

Part	Where it works	Card	Protocol	Standard	Fixed test	Status
Self-Improvement	a process of the Cell carrying [ORG]HOAC-TM, served by AI Cells	org-aion-self-improvement.part-card.v3.json, org-aion-self-improvement.bot-identity-card.v3.json, org-aion-top-management.unit-card.json	§10	§2	TEST-ORG-AION-SI v2	DRAFT, NOT_RUN
49GAION Edition Maker	49GAION itself, under its governing seat: the start point that processes every order or request made to 49GAION, through its own intake stages; it takes in what an organisation is for and gives back its own edition of an AION, the first core of its [ORG]AION, a first AIOC at the level of the governing seat (GOV); it hands over no finished design or configuration, and gives them to AI	not yet written	—	§1.2, §1.3	TEST-EDITION-MAKER v5, NOT_RUN (edition-maker/TEST-EDITION-MAKER.md)	named; its requirements are written and approved, edition-maker/PRD.md v0.12, with their reasons, reviews and a light dry run on the sample Ten, in edition-maker/; built later (GOV, 22 October 2026)
Duty Deputy	inside an [ORG]AION	duty-deputy.part-card.json	§16	—	TEST-DUTY-DEPUTY v1	DRAFT, NOT_RUN
Outside Inspector	outside the AIOC it inspects	outside-inspector.part-card.json	§16	§3.2, item 12	TEST-OUTSIDE-INSPECTOR v1	DRAFT, NOT_RUN
Advisory Council	inside an [ORG]AION	advisory-council.part-card.json	§16	—	TEST-ADVISORY-COUNCIL v1	DRAFT, NOT_RUN
Reference Comparison	inside an [ORG]AION	reference-comparison.part-card.json	§16	—	TEST-REFERENCE-COMPARISON v1	DRAFT, NOT_RUN

Contracts

Contract	File	Between	Standard
Design return	library/contracts/design-return.schema.json	a design stage and the stage that made the release it reads	§3.1, item 6
Release notice	library/contracts/release-notice.schema.json	a design stage and the stage after it	§3.1, item 8

Method catalogues

Catalogue	File	Version	Standard
Reference-model catalogue	library/reference-models/reference-model-catalogue.json	v0.1.0, draft	§3.1, item 1

Products

Product	Kind	Parts (pinned under Parts)	Connections	Shared test	Status
49GAION Source Lifecycle	a single part, offered alone; it runs on its own	49GAION Source Lifecycle	none	TEST-SOURCE-LIFECYCLE v4	DRAFT, NOT_RUN
49GAION Organisation Design and Delivery	assembly	49GAION Source Lifecycle, Target Operating Model, Process and Position Design, Delivery and Implementation	the release notice contract, from each stage to the next; the design return contract, from each later stage to the stage whose release it reads (Protocol §21); Source Lifecycle's sockets contract (needs request, needs answer, needs status, Missing Report, source reference); each stage's filing of its releases, and each later stage's filing of its returns, into Source Lifecycle (Protocol §13, item 9; §21, items 2 and 4)	TEST-DESIGN-CHAIN v2 (below)	named and defined, built later (49GAION/DR-0025); its parts DRAFT, NOT_RUN; Delivery and Implementation written in full (as pinned above)
49GAION Operations Event Register	a single part, offered alone; it runs on its own	49GAION Operations Event Register	none	TEST-OPERATIONS-EVENT-REGISTER v1	DRAFT, NOT_RUN
49GAION Organisation Memory	assembly	49GAION Source Lifecycle, Operations Event Register	the register's scope in Source Lifecycle (it writes origin kinds correspondence and export, and reads references only) and its gap signals (Protocol §13, item 12; §22, item 11); Source Lifecycle's notices back to the register	TEST-ORGANISATION-MEMORY v1 (below)	named and defined, built later (49GAION/DR-0027); its parts DRAFT, NOT_RUN

An organisation of human positions is its output; it does not decide which positions an AI fills. The next product, for an [ORG]AION, may use all or some of its parts; it is AI-native: it starts from the output and from what AI can do, and it is not simply a choice of which positions an AI fills.

A part that runs on its own runs with the Charter, the root of every [ORG]AION, and [ORG]AIOC-OCO (Standard §5.3), and no other Library part.

Organisation Memory keeps what the organisation knows beside what it did. Placed beside Organisation Design and Delivery, it closes the loop of an

AI-native operation: the design runs, the register records it, and the next design starts from the record (Standard §3.1, item 14).

Sources: DR-0029, DR-0031.



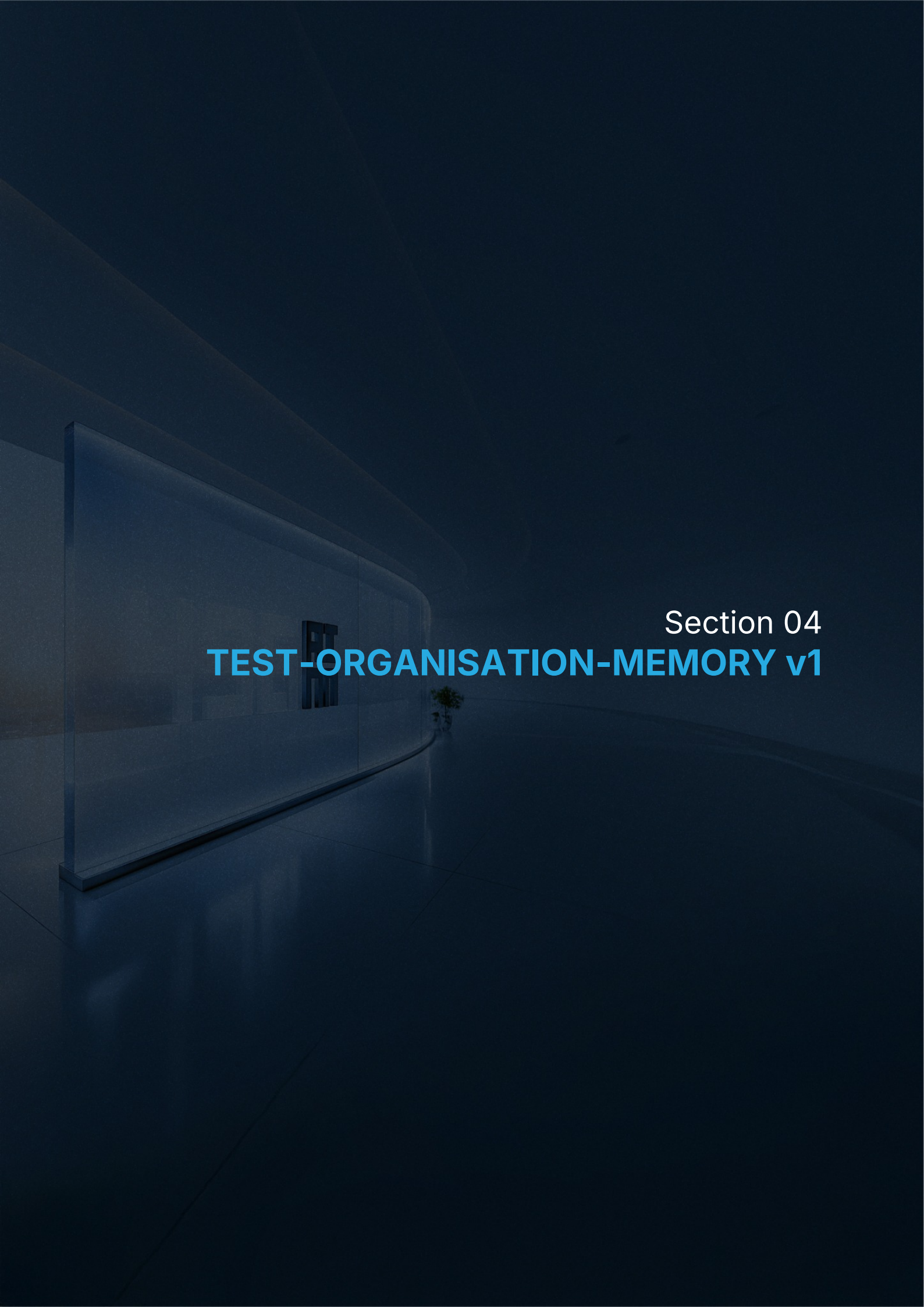
Section 03

TEST-DESIGN-CHAIN v2

One case for every item of the Protocol section The design chain (§21), run across the fixtures of the four stages as a cross-AIOC test (Protocol §11, item 2). Written before use; every case reads NOT_RUN. Version 2 (49GAION/DR-0023) adds cases 12 to 15, one for every bullet of §21, item 12.

1. On fixture organisations, each stage runs alone with no later stage installed, and no stage waits for a later one.
2. Every decided release is filed into Source Lifecycle under its stage's own origin kind and reads back by hash; no stage holds or edits another stage's release.
3. Every notice validates against the Library's release notice contract, its ID is its content address, it is sent only after the filing reads back, and it carries no release text and no name of a person.
4. A defect is returned to the stage that made the release, under the design return contract, with a filed copy of the same hash; Delivery and Implementation returns a defect of a target operating model release to that part, not to Process and Position Design.
5. With the fixtures run to the end, every return has ended in one of the contract's four ends; past a deadline or a set number of rounds a return reaches the Requesting Authority and the Cell carrying [ORG]HOAC-TM; an element carried forward on a set-aside return is marked with its basis and its decision.
6. No stage opens a new Work Item back to the stage that sent it a return.
7. After a revocation, a notice or a return through that link is refused at the gateway, and each stage still runs alone.
8. In every stage after Source Lifecycle, a seeded defect at each step is caught by the engines that did not produce it; no count, family majority, Chief of Staff or code removes a finding that has a verified quote.
9. No output of any stage names a person or reads who occupies a position.
10. Every AIOC part's mother blueprint pinned in this register reads back from its repository at the pinned commit with the pinned SHA-256.
11. The cases above run across the four stages together, each with its own fixed test passing first.

12. Where Source Lifecycle holds a dictionary, every stage reads it, and a term used in another meaning raises a contradiction.
13. What a stage leaves open (not given, not decided, not set, unknown, no observation) reaches every later stage open; a later stage that fills it fails.
14. The priority and the value case of the target operating model reach Process and Position Design and Delivery and Implementation byte-identical, by reference.
15. No record of the work about a person enters any stage, and no output of any stage says anything about a person from records of the work.



Section 04

TEST-ORGANISATION-MEMORY v1

The shared test of 49GAION Organisation Memory (49GAION/DR-0027), run across the fixtures of its two parts as a cross-AIOC test (Protocol §11, item 2). Written before use; every case reads NOT_RUN.

1. Each part's own fixed test passes first: TEST-SOURCE-LIFECYCLE v4 and TEST-OPERATIONS-EVENT-REGISTER v1.
2. Each part runs alone with the other absent: Source Lifecycle with no register, and the register with no Source Lifecycle, its feeds shown as waiting.
3. A formal outgoing letter through the gateway takes its number before it leaves. When its position asks to keep it, Source Lifecycle files it as correspondence, and its hash equals the entry's content hash. The reply moves the entry to answered and links its Work Item.
4. The period's projection of the work enters Source Lifecycle as an export by role-type and process, only after its HF-17 decision. A person field injected into it is refused at both Input sockets, and nothing of it is kept.
5. A rebuild of the register's projections equals the export Source Lifecycle serves.
6. An act done without a source raises a gap in Source Lifecycle's gap list, by reference, never as a source.
7. A source superseded in Source Lifecycle marks, in the register, the acts that cited it after its supersession.
8. Over the fixture run, no number stream has a gap or a duplicate.
9. Nothing in either part names a person or reads who occupies a position, and nothing gives a figure for one human position.

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