

Portfolio Suite Control Flows

PE evaluate • POC ship • MVP ship • portfolio proof

Portfolio Suite motion — signal to a live URL.
Agent Stack is the substrate, not a peer product.

AUDIENCE Product buyers • operators • sales engineers

Executive summary

3 SUITE FLOWS PE · POC · MVP	FUND CAPITAL GATE Before builder spend	URL PROOF portfolio.nltlabs.ai	Stack SUBSTRATE AgentForge invoke
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This volume documents Portfolio Suite control flows — Scout intake through pe-evaluate, FUND-gated poc-ship, and mvp-ship to a live portfolio URL. Agent Stack boundaries stay in Platform Integration Map; generic platform motion stays in Agent Stack Communication & Control Flows.

Key findings

- 1

PE evaluate — idea intake through FUND / PASS verdict.
- 2

POC ship — FUND through builder to [portfolio.nltlabs.ai](#).
- 3

MVP ship — live POC through mvp-ship to product slice.

Products door

Buyers evaluating NLT Portfolio Suite start here for motion, then NLT Labs Portfolio Story for outcomes. CTOs licensing Agent Stack use Platform Integration Map instead.

SECTION I

Flow overview

Three sequences from Scout intake to shipped proof.

Three Portfolio Suite control flows carry every idea from Scout intake to a clickable portfolio URL. NLT Portfolio Engine issues verdicts; AgentForge executes as substrate; stakeholders open portfolio.nltlabs.ai. Agent Stack architecture stays in Platform Integration Map; generic platform motion stays in Agent Stack Communication & Control Flows.

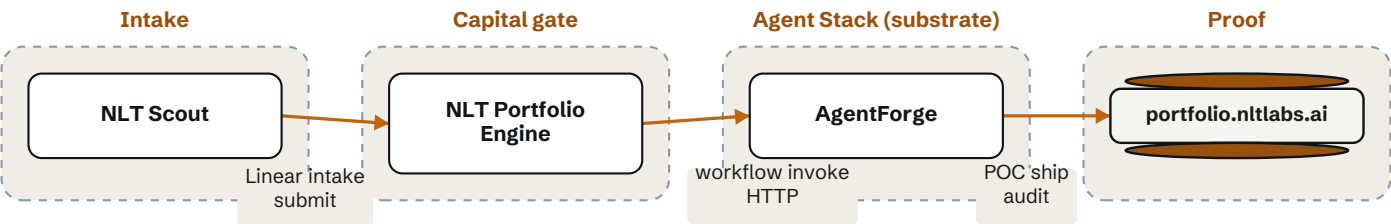
- PE evaluate — idea intake through FUND / PASS verdict.
- POC ship — FUND verdict through builder to portfolio.nltlabs.ai.
- MVP ship — live POC through mvp-ship to Pitchpad intake.

Products door

This brief supports NLT Portfolio Suite sales. License Agent Stack on products.nltlabs.ai/platform.

NLT PORTFOLIO SUITE — SYSTEM PATH

Level 1 · Products door · Agent Stack is the substrate, not a peer product



Level 1 Products path — Portfolio Suite Control Flows. Platform boundaries: Platform Integration Map.

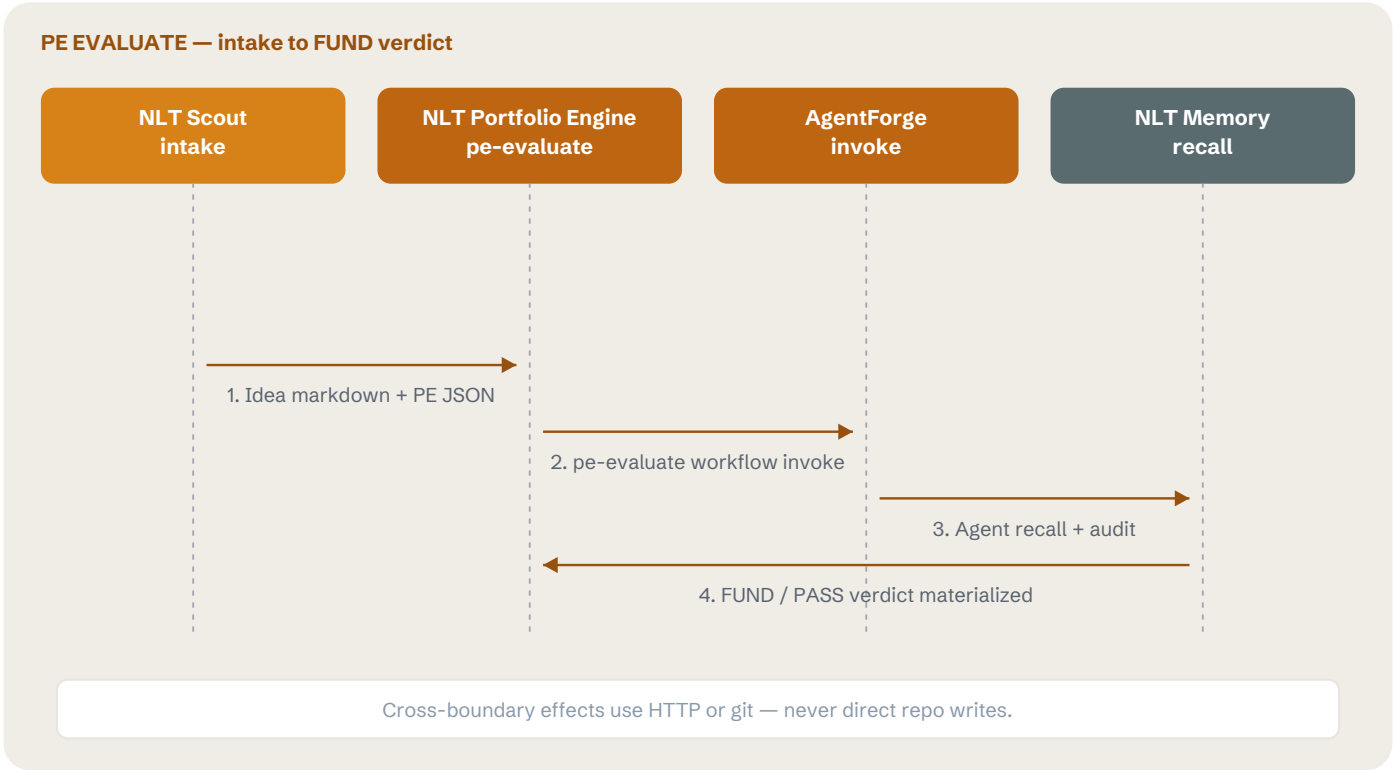
Figure — Portfolio Suite system path (Level 1). Section II-IV sequences drill into each labeled edge.

SECTION II

PE evaluate sequence

Idea intake to verdict: the only path that commits builder capital.

Intake arrives two ways — NLT Scout files a Linear card via the submit workflow, or an operator pushes portfolio git artifacts. NLT Portfolio Engine runs pe-evaluate through AgentForge, recalls prior PE patterns from NLT Memory when available, and materializes a FUND or PASS verdict. Trace it when onboarding a new slug: confirm the intake artifact exists, verify pe-evaluate is registered, and hold builder capacity until the FUND row appears.



Sequence — PE evaluate sequence

Step	Actor	Action	Artifact
1	NLT Scout or operator	Linear idea:new card or git ideas/<slug>/	submit workflow or portfolio push
2	NLT Portfolio Engine	Queue pe-evaluate workflow	workflows/pe-evaluate.yaml
3	AgentForge	Invoke executor with policy + provenance check	task audit log
4	NLT Memory	Recall prior PE patterns (optional)	tapps_memory search
5	NLT Portfolio Engine	pe-firm wire verdict → FUND/PASS/DIG_DEEPER	decision.json

Operator notes

- FUND unlocks poc-ship; PASS defers builder spend until criteria change.
- Memory recall is optional, but it keeps PE verdicts consistent across slugs.
- AgentForge audit logs are the source of truth for invoke failures — start there.
- Cross-repo writes stop at every lane boundary; git carries the handoffs.

pe-evaluate — workflow depth

The PE pipeline fans out to six parallel bull analysts — market, competitive, feasibility, financial, regulatory, creative — then gates through devils-advocate, number-auditor, and buyer-simulator before pe-firm aggregates the verdict (a lowercase three-value wire enum, surfaced as FUND / PASS / DIG_DEEPER in decision.json). The production manifest runs on_error: partial: one analyst failure costs one brief, never the evaluation. Node-level invoke sequences and DAG-accurate fan-out diagrams live in NLT Portfolio Engine Deep Dive.

Web research depth. NLT Portfolio Engine Deep Dive documents the Firecrawl, Tavily, and Exa roles per PE node with business rationale and invoke sequences, parsed from NLT_ENGINE_ROOT at build time. Scout-side research before handoff is in NLT Scout Deep Dive.

pe-evaluate — node map

Node	Kind	Agent
market	agent	nlt-pe-market-researcher
comp	agent	nlt-pe-competitive-analyst
feas	agent	nlt-pe-feasibility-analyst
fin	agent	nlt-pe-financial-modeler
reg	agent	nlt-pe-regulatory-analyst
creative	agent	nlt-pe-creative-director
bull_reply	agent	nlt-pe-bull-reply
dev	agent	nlt-pe-devils-advocate
buyer_sim	agent	nlt-pe-buyer-simulator
auditor	agent	nlt-number-auditor
firm	agent	nlt-pe-firm

Error paths

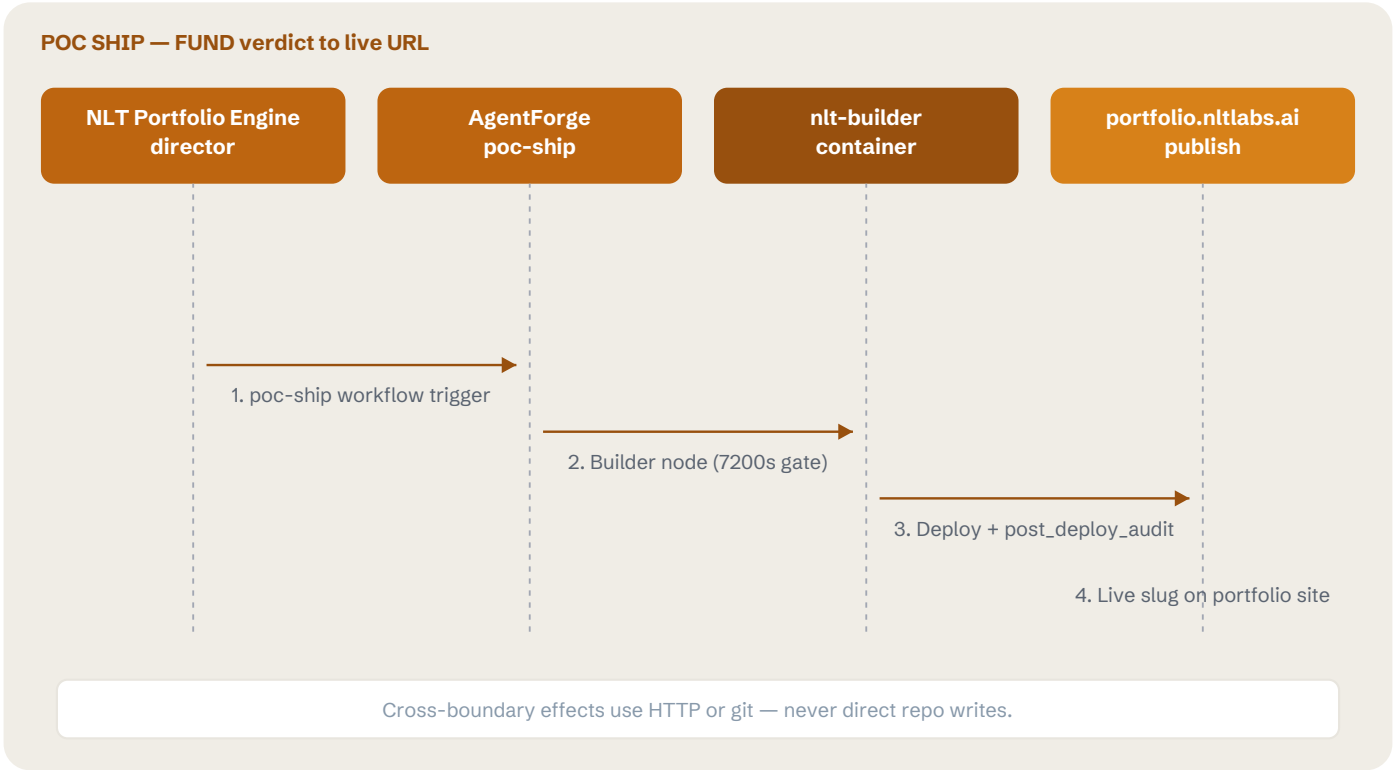
Failure	Behaviour	Operator action
Analyst timeout	on_error: partial drops node data	Re-run pe-evaluate or single analyst
Insufficient citations	assessment_status: insufficient_input	Feed richer intake markdown
Invoke 403	Bearer / policy mismatch	Verify AgentForge project registration
Brain recall empty	Optional — PE proceeds without memory	tapps_memory search + reinforce

SECTION III

POC ship sequence

FUND verdict to live URL: the capital-intensive path.

Only FUND slugs enter poc-ship. The workflow orchestrates builder nodes, deploy audit, and quality review until the slug is live on portfolio.nltlabs.ai. The builder node enforces a 7200-second gate, and post_deploy_audit must pass before anyone shares the public URL — the audit, not the deploy, is what makes the link proof.



Sequence — POC ship sequence

Step	Actor	Action	Artifact
1	NLT Portfolio Engine	Director accepts FUND slug	registry FUND row
2	AgentForge	Run poc-ship workflow nodes	builder + deploy audit
3	nlt-builder	Build POC via HTTP relay (7200s gate)	build envelope: pr_url + site_url
4	NLT Portfolio Engine	Merge builder PR → Render deploy	card on portfolio.nltlabs.ai → <slug>.nltlabs.ai
5	Operator	Verify live URL + post_deploy_audit	public proof link

Operator notes

- Builder substrate failures roll back to the Engine director queue — nothing publishes.
- Deploy audit captures HTTP smoke plus security posture for the slug.
- The live URL is the external proof artifact; staging hosts prove nothing.
- Quality review may invoke NLT Quality Pipeline gates on the shipped repo.

poc-ship — workflow depth

After FUND, poc-ship scopes builder work, runs bounded convergence loops between design/QA pairs, and gates deploy on post_deploy_audit. No slug is advertised on the portfolio until the audit passes — the gate order is the contract.

poc-ship — node map

Node	Kind	Agent
pe_upstream	run_ref	—
director	agent	nlt-poc-director
market_pricing	agent	nlt-market-pricing-researcher
product_designer	agent	nlt-poc-product-designer
product_renders	script	—
model_3d	script	—
designer	agent	nlt-poc-designer
signal_planner	agent	nlt-poc-signal-planner
demand_gate	script	—
prototype_designer	agent	nlt-poc-prototype-designer
prototype_builder	agent	nlt-poc-prototype-builder
prototype_builder_gateway	agent	nlt-poc-prototype-builder-gateway
prototype_qa	agent	nlt-poc-prototype-qa
copywriter	agent	nlt-poc-copywriter
gtm_operator	agent	nlt-gtm-operator
gtm_qa	agent	nlt-poc-gtm-qa
visual_qa	script	—
engineering_qa	script	—
content_qa	script	—
builder	script	—
post_deploy_audit	agent	nlt-poc-post-deploy-audit
quality_reviewer	script	—

Loop	Members	Max iter	Convergence
visual_regen	product_renders, visual_qa	3	visual_qa.converge == True or visual_qa.assessment_status == "blocked"
model_3d_regen	model_3d	1	—
content_regen	copywriter, content_qa	3	content_qa.converge
gtm_regen	gtm_operator, gtm_qa	3	gtm_qa.converge
prototype_regen	prototype_builder, prototype_qa	3	prototype_qa.converge

Error paths

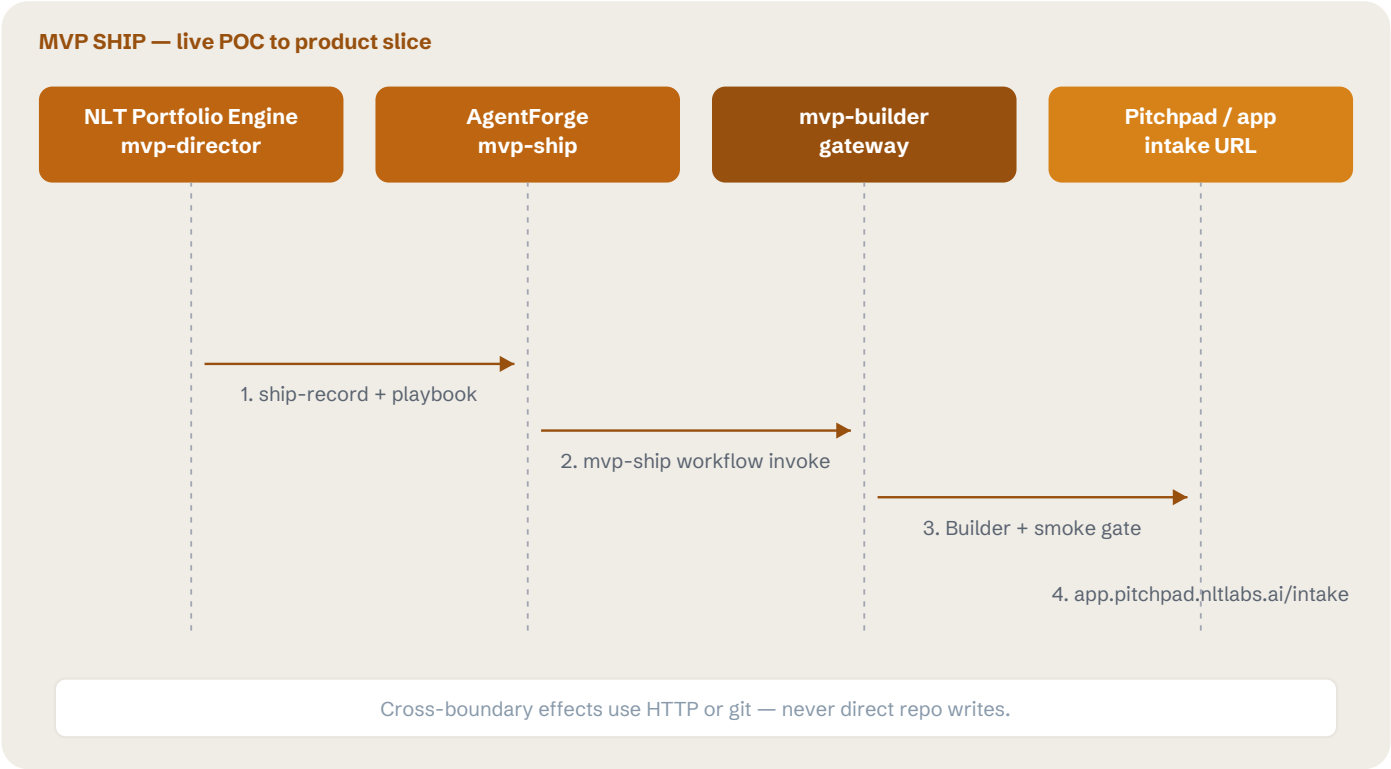
Failure	Behaviour	Operator action
Builder timeout (7200s)	Workflow partial or abort per on_error	Inspect nlt-builder logs
Deploy audit fail	Slug withheld from portfolio	Fix HTTP smoke / security posture
Loop max iterations	Judge does not converge	Director narrows scope or aborts ship
Non-FUND decision	Director refuses downstream nodes	Return to pe-evaluate

SECTION IV

MVP ship sequence

Live POC to product slice: demo becomes intake URL.

mvp-ship runs when a FUND slug is live on portfolio.nltlabs.ai and stakeholders want a product-facing intake URL, not another demo. ship-record.json is the entry gate; the workflow scopes a product slice (Pitchpad intake by default), runs builder nodes, and gates on mvp-smoke. CONCIERGE-MVP.md must match the published POC card before the slice ships.



Sequence — MVP ship sequence

Step	Actor	Action	Artifact
1	NLT Portfolio Engine	Confirm ship-record.json + CONCIERGE-MVP.md	live POC URL
2	AgentForge	Run mvp-ship workflow (on_error: partial)	mvp-director → builder
3	NLT Portfolio Engine	mvp-smoke acceptance tests	slice: intake-proposal default

Step	Actor	Action	Artifact
4	Operator	Share Pitchpad intake URL	app.pitchpad.nltlabs.ai/intake
5	Partner Desk	Optional gated diligence	partners.nltlabs.ai

Operator notes

- poc-ship must be complete — ship-record.json is the entry gate, no exceptions.
- The default slice targets app.pitchpad.nltlabs.ai/intake after mvp-smoke passes.
- on_error: partial — a failed slice never overwrites a live POC URL.
- Partner Desk (partners.nltlabs.ai) adds gated diligence when partners want depth.

mvp-ship — workflow depth

With a live POC and ship-record.json in hand, mvp-ship scopes a product slice (Pitchpad intake by default), runs mvp-director through the builder nodes, and gates on mvp-smoke. Only then does app.pitchpad.nltlabs.ai/intake go out to stakeholders.

mvp-ship — node map

Node	Kind	Agent
pe_upstream	run_ref	—
mvp_director	agent	nlt-mvp-director
builder	agent	nlt-mvp-builder-gateway
smoke	agent	nlt-mvp-smoke

Error paths

Failure	Behaviour	Operator action
Missing ship-record	Director refuses mvp-ship invoke	Complete poc-ship + post_deploy_audit first
mvp-smoke fail	on_error: partial — slice withheld	Inspect builder logs + intake URL smoke
Playbook drift	CONCIERGE-MVP.md stale vs live POC	Refresh playbook from portfolio card
Partner Desk optional	Gated diligence not required for MVP	Invite partners via partners.nltlabs.ai when ready

SECTION V

Glossary

Terms used across Suite control-flow diagrams.

Portfolio Suite glossary

Term	Definition	Related flow
FUND verdict	Canonical decision.json value: proceed to POC build.	Flow I
PE JSON	Portfolio-entry artifact on nlt-portfolio git or post-pe-evaluate decision.json.	Flow I
MVP ship	Product-slice workflow after a live POC — Pitchpad intake URL by default.	Flow III
PASS verdict	PE outcome deferring builder spend until criteria change.	Flow I
post_deploy_audit	HTTP and security smoke run before the public URL is advertised.	Flow II
Agent Stack	Platform substrate (AgentForge · Memory · Report Studio) — not a Suite module.	Platform Integration Map

SECTION VIII

Intake paths before pe-evaluate

Scout Linear submit and git dispatcher are distinct entry surfaces.

Two intake paths converge on pe-evaluate. **Path A (Scout):** vertical mining → submit workflow → Linear idea:new cards → AgentForge trigger. **Path B (portfolio git):** human submit writes ideas/<slug>/ on the nlt-portfolio checkout; NLT Portfolio Engine intake_dispatcher polls that repo and queues pe-evaluate. Scout never writes Engine registry rows directly.

Intake dispatcher sequence

Step	Actor	Artifact	Gate
1a	NLT Scout	IdeaCandidate → Linear card	submit workflow complete
1b	Operator	intake.md on nlt-portfolio git	Branch policy + review
2	intake_dispatcher	Poll git slug listing (path B only)	Schema + slug uniqueness
3	NLT Portfolio Engine	pe-evaluate invoke	AgentForge registration OK
4	AgentForge	Audit task id	Policy + bearer scope

Error paths

Failure	Behaviour	Operator action
Missing PE JSON	Dispatcher skips slug	Re-run Scout export workflow
Schema validation fail	Artifact quarantined in logs	Fix JSON against Engine contracts
Duplicate slug	No second pe-evaluate row	Merge or rename idea folder
Invoke 403	No AgentForge task created	Verify project bearer + registration

create-portfolio — entity formation (post-FUND)

Public portfolio proof on portfolio.nltlabs.ai comes from **poc-ship** via **poc-builder** and **portfolio-entry.json** — not from **create-portfolio**. The **create-portfolio** workflow runs later for LLC incorporation, banking, and domain/brand artifacts after operator approval.

create-portfolio — node map

Node	Kind	Agent
pe_upstream	run_ref	—
incorporator	agent	nlt-incorporator
banker	agent	nlt-banker
domain_and_brand	agent	nlt-domain-and-brand

Publish vs formation checklist

Step	Owner	Outcome
Public proof URL	poc-ship + poc-builder	portfolio.nltlabs.ai card live
Entity formation	create-portfolio	LLC + Mercury banking artifacts
Operator gate	NLT Portfolio Engine	FundDecision + explicit OK before entity DAG
Proof link	PORTFOLIO_STORY	Clickable proof in briefs

SECTION IX

Cross-flow handoffs

How the five core sequences chain in production.

Live engine workflows at build time: **create-portfolio**, **linear-intake-create**, **mvp-ship**, **pe-evaluate**, **poc-ship**, **test-echo**. Handoffs use git artifacts or HTTP invoke — never direct cross-repo writes.

Durable handoffs

From → To	Artifact / surface	Gate
Scout → Engine	Linear idea:new via submit workflow	Scout submit complete
Portfolio git → Engine	ideas/<slug>/ on nlt-portfolio	intake_dispatcher poll
Engine → AgentForge	pe-evaluate / poc-ship invoke	FUND verdict row
AgentForge → Memory	Recall during node execution	TAPPS_BRAIN_AUTH_TOKEN
Engine → portfolio	Published slug URL	post_deploy_audit pass
Author → CI	Git diff on consumer repo	tapps_validate_changed gate

Operator trace

Start at Scout Linear intake or portfolio git submit, follow pe-evaluate audit in AgentForge, confirm FUND in registry, then poc-ship through deploy audit to portfolio.nltlabs.ai.

- Platform Integration Map maps static boundaries; this section maps motion between them.
- AgentForge Deep Dive documents AgentForge executor internals referenced by every invoke.
- NLT Memory Deep Dive documents NLT Memory tiers behind the memory-bridge flow.

SECTION X

Operator runbook

Day-one trace across all five core flows.

- Confirm NLT_SCOUT_ROOT and NLT_ENGINE_ROOT before trusting live tables in PLATFORM_INTEGRATION.
- Trace Scout artifact → intake_dispatcher → pe-evaluate audit id in AgentForge.
- Hold poc-ship until FUND row exists; verify post_deploy_audit before sharing URL.
- Run session start; recall prior decisions via NLT Memory search before architecture edits.
- On gate failure: quick_check locally; validate_changed with explicit file_paths in CI.

Triage index

Symptom	First check	Brief
NLT Scout Deep Dive stub depth	NLT_SCOUT_ROOT path	Platform Integration Map env table
Empty PE verdict	pe-evaluate on_error + analyst logs	Agent Stack Communication & Control Flows Section II
Memory always empty	TAPPS_BRAIN_AUTH_TOKEN	Agent Stack Communication & Control Flows Section V
CI gate fail on PDF PR	build_briefs_pdfs.py --audit	Report Studio Builder Ops ops

Engineer depth on the capital gate: NLT Portfolio Engine Deep Dive. Agent Stack boundaries: Platform Integration Map.