



Report Studio Builder Ops

nlt-report-studio maintainer reference

Meta ops — not investor-facing.

Dogfood from ReportLab; consumers pin by git tag.

AUDIENCE Engine maintainers · agent authors

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nlt-v3.2

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Scaffold · verify

Meta ops guide for authors and agents maintaining the ReportLab engine. Consumer repos pin nlt-report-studio by git tag; this repo owns brands, templates, diagrams, and the report-studio CLI.

Key findings

- 1 Consumers pin nlt-report-studio — never copy engine source in-tree.
- 2 report-studio verify guards path::symbol citations in story modules.
- 3 PDFs rebuild via apps/docs/scripts/build-pdfs.mjs — no hand edits.

Distribution

Platform briefs at briefs.nltlabs.ai ship Vol 1-8 to investors and architects. Vol 9-10 are builder ops — noindex on the public site.

SECTION I

Foreword

Who maintains the engine and why this volume exists.

Meta ops guide for authors and agents maintaining the ReportLab engine. Consumer repos pin nlt-report-studio by git tag; this repo owns brands, templates, diagrams, and the report-studio CLI.

Methodology

This brief is generated from the live NLT document suite (nlt-report-studio v0.2.0, brand nlt-v3.2). Diagrams and tables reflect build-time workspace discovery where noted.

Audience

- Investors & board — Vol 1-2
- Architects — Vol 3-4
- Engineering DD — Vol 5-8

Related proof

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SECTION II

Install and pin

Consumer vs engine-dev dependency layout.

- Consumer: git tag pin in pyproject.toml (v0.2.0+).
- Engine dev: editable path dep ../ReportLab.
- uv sync --group reports or --extra dev per consumer l
- report-studio build-plugin for Claude Code skill bundle.

Pin discipline

Tag pins (v0.2.0+) in consumer pyproject.toml. Engine dev uses editable ../ReportLab path dependency.

Install layouts

Layout	Dependency	When to use
Consumer repo	git tag pin on nlt-report-studio	NLTlabsPE, tapps-mcp PDFs
Engine dev	path = ../ReportLab editable	ReportLab maintainers
CI	uv sync + pytest + verify	Every PR touching reports/

SECTION III

CLI commands

report-studio entry points.

Command reference

Command	Purpose
report-studio init	Scaffold reports//story.py + pyproject merge
report-studio build	Render PDF from build_story() module
report-studio verify	Validate path::symbol citations in story sources
report-studio build-plugin	Emit plugin/ for Cursor or Claude Code

SECTION IV

Templates and brands

YAML scaffolds and brand packs.

- Nine templates ship today: agent_reference, architecture, business_workforce, communication_flows, component, platform_integration, portfolio_story, user_guide.
- Default brand: nlt-v3.2 (colors/fonts in brands/nlt-v3.2)
- docs/NLT_DOCS_SUITE.md maps volumes to templates
- docs/NLT_BRAND.md governs outward component names.

Suite map

brands/nlt-v3.2/ — colors, fonts, cover art. templates/*.yaml — TOC parts per volume. docs/NLT_DOCS_SUITE.md — volume ↔ template map.

SECTION V

Verify and CI

Citation guard and pytest smoke.

- PRs touching reports/: run report-studio verify on changed story modules.
- Copy templates/consumer/report-studio-verify.yml into consumer CI.
- Never commit hand-edited PDF binaries.
- Engine: uv run pytest covers template manifest and build smoke tests.

Verify workflow

Check	Command	Blocks merge when
Citation guard	report-studio verify	Missing path::symbol anchor
Template smoke	uv run pytest	Story import or build regression
Quality gate	tapps_validate_changed	Python below preset threshold

SECTION VI

Plugin and agent skills

Cursor / Claude Code skill bundle.

- `/report-studio:scaffold-report` — init consumer report.
- `/report-studio:pick-template` — choose template before init.
- `/report-studio:verify-citations` — citation guard.
- See `docs/PLUGIN_INSTALL.md` for marketplace wiring.

Agent skill routing

Skill	Purpose	Platform
<code>/report-studio:scaffold-report</code>	Init consumer story module	Claude Code
<code>/report-studio:verify-citations</code>	Citation guard	Claude Code
<code>/tapps-finish-task</code>	Validate + checklist bundle	Cursor / Claude
<code>/tapps-handoff-session</code>	Cross-chat handoff file	Cursor / Claude

Confidential — prepared for NLT Labs stakeholders. Outward names follow `docs/NLT_BRAND.md`. Internal checkout names appear only in builder ops volumes (9-10).