

## 7.6.2 Evolutions

This folder contains the **active engineering “Evolution” packages** for the Sphere Space Station Earth ONE and Beyond project. Each Evolution groups the current set of specs, interfaces, calculations, models, tests, and ops procedures that together define the system **as it is being changed right now**. Older waves move to 7.6.3 History.

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### What’s in here

- **Current Evolution(s)** — the live development wave(s) with their documents and work-in-progress artifacts. For example, the book lists **EVOLUTION 00 — The Beginning** as the starting wave.
- **Specs under this Evolution** — e.g., SPEC-00-STR-DECKS-DECK000-0001-wormhole-docking-tunnel-EN-v0.1.0-DRAFT (structure, decks, DECK000, EN locale, SemVer + state).

Each Evolution typically mirrors the reference layout used in the history section (standards/templates, architecture, specs, interfaces, calculations, models/sim, tests, ops, change management). When an Evolution closes, its content is frozen and archived to 7.6.3 History (e.g., EVOL-00/00-standards-templates, 01-architecture, 02-specs, ...).

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### How Evolutions work (fast primer)

- **Evolution principle & lifecycle:** Evolutions are small, visible, and governed. They move from proposal → work → review → freeze, following the rules and lifecycle defined in **7.6.1 Global Standards** and **Guideline Document: The Evolution Principle**.
  - **Governance & roles:** See **AGENTS.md — Roles, Responsibilities & EVOL Working Rules** for owners, reviewers, EVOL board decisions, and merge blockers.
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### File naming, versioning, and states

Follow the **7.6.1 Global Standards** rigorously:

- **File-Naming Scheme** (document type, evolution code, discipline, system/deck IDs, language, SemVer, state). Example: SPEC-00-STR-DECKS-DECK000-0001-...-EN-v0.1.0-DRAFT.
  - **Versioning: SemVer** (MAJOR.MINOR.PATCH). Increase versions per the change impact; keep states in sync.
  - **Document States:** e.g., DRAFT → REVIEW → FROZEN (see “States (STATE)” code table).
  - **Required YAML front matter:** include required metadata (doc type, evolution, owners, reviewers, state, version, etc.). CI will check this.
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### Templates you’ll need

Short-form templates are provided for **SPEC, ICD, ADR, RFC, TST, CALC**. Start from these when adding documents to this Evolution.

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## CI, quality gates, and merge rules

- **Quality rules & CI/Lint:** Filename regex, front-matter fields, and cross-checks are enforced. Fix issues before requesting review.
  - **Commits & PRs:** Use the prescribed **commit message and PR title conventions** so traceability stays intact. Merge is blocked until reviews and checks pass per **EVOL board** rules.
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## Contributing to this Evolution (checklist)

1. **Create/extend docs** using the correct **template + filename + front matter**.
  2. **Reference codes/tables** (DOC types, DISC, SYS, DECK IDs, STATE) from the standards appendix.
  3. **Run CI locally** where possible; fix lint and metadata errors.
  4. **Open a PR** with compliant title/description; request the listed **owners/reviewers** in AGENTS.md.
  5. **Address reviews**; once approved and CI is green, the EVOL board (or delegate) merges. **Frozen artifacts** will later be copied to 7.6.3 History as the next wave starts.
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## Quick pointers

- **Global standards & lifecycle, versioning, states, front matter, CI/Lint** → 7.6.1-global-standards and **Guideline: The Evolution Principle**.
  - **Roles, ownership, workflows** → 7.6-engineering/AGENTS.md.
  - **History and prior waves** → 7.6.3 History (e.g., EVOL-00 structure for reference).
  - **Example active spec** → wormhole docking tunnel spec listed under EVOLUTION 00.
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## Scope reminder

This folder is the **single source of truth for the *current* change wave**. If it's not here (or linked from here), it's not part of the active Evolution. Archive only after freeze; until then, keep everything auditable, versioned, and governed.

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*Maintainers:* See AGENTS.md for the current Evolution owner(s) and reviewer roster.