

v3.4-COM-007 – Fork Conformance Checklist & Governance Enforcement

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1. Purpose & Scope

This document defines the required checklist, evidence structures, and validation logic for certifying forked MaxOneOpen deployments. It ensures architectural, operational, and cryptographic conformance across sovereign forks without enforcing centralized governance.

2. Certification Checklist – Minimum Criteria

All forks must fulfill the following mandatory criteria for certification:

- ✓ Architectural Conformance to v3.4-STACK (STK-001 to STK-007)
- ✓ Usage of ZKID-based identity & trust capsule (see SEC-003)
- ✓ Inference Twins follow lifecycle model (see EXE-002)
- ✓ Audit traces notarized via COM-001 / SEC-004 standards
- ✓ No centralized data layer or identity broker used
- ✓ Runtime version hashes published and signed (see STK-002 / AI-002)
- ✓ Certification request submitted via Fork Manifest (see FINAL-001)

3. Governance Enforcement Logic

- Each fork must publish:
 - Manifest (structure, delta to mainline, scope)
 - Completion Capsule (proofs, signatures, scorecard)
- If a fork fails recertification or violates terms:
 - Public ZK-revocation capsule is published
 - Twin mesh propagates block within 30 seconds
- Governance role is decentralized & based on ZK-proof verification only

4. Zero-Knowledge Fork Validation Layer

- Validation is not identity-based, but structure-based
- Blueprint hashes, runtime twin state, and execution lineage are validated using:
 - Fork Blueprint Schema (see STK-004)
 - Audit Capsule (SEC-004)

- Capsule Signature Chain (see FINAL-001)
- Forks can be trusted even without central whitelist, if all proofs are satisfied

5. Certification Relevance

This checklist is binding for all public forks seeking MaxOneOpen certification or claiming architectural conformance. No exceptions apply unless declared in the Completion Capsule and accepted by a valid quorum.