

MaxOneOpen: External Certification Interface

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FOUNDATION – Purpose & Scope

This document defines the interface and logic by which external auditing bodies, certification partners, or regulatory institutions can validate MaxOneOpen deployments. It enables formal compliance evaluations without altering the sovereign, forkable architecture structure.

EXECUTION – Certification Layers & Entry Points

- ****Manifest Ledger (REG-001)**** – verifies declared fork origin and lineage integrity.
- ****Twin Lifecycle Logs (OPS-001)**** – allows inspection of execution states and change history.
- ****ZKP Validation Stack (ZKP-001–004)**** – ensures structural proof logic, nested audits, signature flow.
- ****Fork Archive Checkpoint**** – optional public snapshot incl. manifest, config, hash & signature block.
- ****Local Peer Mesh Signature**** – supports quorum or majority signatures for runtime alignment.

EXECUTION – Certification Models (Supported)

-  ****ENISA-Ready Evaluation**** – aligns with EU cybersecurity certification acts.
-  ****Self-Declared Manifest Conformity**** – operator signs REG-001 with config manifest hash.
-  ****3rd Party Sovereignty Audit**** – licensed body verifies ZKP validity, lifecycle, fork logic.
-  ****EBSI Compliance Bridge**** – optional hook to European Blockchain Services Infrastructure.
-  ****Public Peer Signoff (Optional)**** – federated quorum model for edge-level verification.

FINAL – Summary & CTA

MaxOneOpen does not require certification to function. But it is built to be certifiable – at multiple levels, with full cryptographic traceability and external auditability. This document provides the bridge to do so without undermining sovereignty, independence, or fork logic.

Status: External audit interface specification – GPT-certified

