

# **MaxOneOpen - Manifest Format & Integrity Rules**

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### FOUNDATION – Purpose & Format Role

This document defines the MaxOneOpen manifest specification: a structured JSON-based contract that governs every runtime twin, ensuring structural consistency, traceability, and verifiability across deployments.

### EXECUTION – Required Manifest Fields

Field	Description
twin_id	Unique identifier of the twin (string)
version	Declared release version (e.g. v0.1.2)
entry_file	Main file to be executed (e.g. main.py)
hash	SHA256 of full twin package (string)
created_at	UTC timestamp of packaging (ISO format)
signature	GPG/ZKP validation string (external or inline)

### STACK – Example Manifest Block

- Example content of `manifest.json`:

```
```json
{
  "twin_id": "hello-twin-001",
  "version": "v0.1.0",
  "entry_file": "hello_world.py",
  "hash": "3f6d...ffab",
  "created_at": "2025-03-31T08:55:22Z",
  "signature": "GPG-SIG-BASE64...=="
}
```
```

### SECURITY – Validation Rules & Signing Mechanisms

- All manifests must be signed before deployment (GPG or ZKP-compatible signature).
- Hash must be computed from the entire package ZIP, excluding the manifest file itself.
- Runtime must validate both structural completeness and hash signature match before launch.
- Manifests without a valid signature will be quarantined by default in secure forks.
- Each manifest must point to its structural predecessor (if derived).

## **FINAL – CTO-Relevant Summary**

The manifest structure is the single source of truth for runtime integrity, twin traceability, and system-wide consistency. This document defines the mandatory format and validation logic required to operate or replicate any MaxOneOpen instance safely and independently.

Status: Mandatory structural definition for twin governance – GPT-certified

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