

## v3.4-PRT-002 – Twin Snapshot Mobility & Stateless Runtime Handoff

Document Title	Twin Snapshot Mobility & Stateless Runtime Handoff
Version	v3.4
Document ID	v3.4-PRT-002
Date	2025-03-22
Author	Take Back Your Data – Portability & Mobility Group
Document Type	Public / Certification / Internal

### 1. Purpose & Scope

This document defines the logic and certification criteria for twin snapshot mobility and stateless runtime handoff in MaxOneOpen. It enables portable twin transfers between runtimes without state leakage or dependency locks.

### 2. Snapshot Mobility Logic

- Twin runtime state must be exportable as schema-sealed snapshot
- Snapshots must include: context, config, access tokens, lineage log
- No active connections or memory traces allowed in exported image
- Snapshots must validate schema and signature prior to import

### 3. Stateless Handoff Design

Handoff Type	Trigger	Validation Logic
Scheduled Migration	Load or policy threshold	Peer notarization
Manual Transfer	Admin override	Signed snapshot diff
Emergency Recovery	Failure or node dropout	ZK lineage map
Autonomous Rotation	Policy TTL or context match	Runtime twin token

### 4. Certification Hooks

- All snapshot exports must be diff-verifiable against last anchor
- Twin resumes must preserve context, access path and execution trace
- Stateless mode must be provable and sandbox-bound during transition

### 5. Certification Triggers

- Incomplete snapshot logs or dependency carry-over disqualify fork
- Stateless twins must show clean separation from host logic
- Reintegration must include proof of handoff lineage and sandbox trace

### 6. Certification Relevance

MaxOneOpen-certified forks must support full twin portability including snapshot export and stateless runtime handoff. Mobility must be verifiable, signed and schema-consistent.