MWR-12: Post-mortem Role Trace Capsule

System: MaxWorkRoles

Module ID: MWR-12

Title: Post-mortem Role Trace Capsule

Version: 1.0

Classification: Add-on Module (Audit & Forensic)

Responsible: TBYD Architectural Team / Forensic Subtrack

License Model: TBYD License v2.2 / Audit Addendum A

Standards Reference: ISO/IEC 15408, TBYD Capsule Protocol v2.1, AIM v1.0-compliant

Applicability: MaxOneOpen v4.1+

# 1. Purpose and Scope

This module defines a capsule format that allows the full role activity history of a specific identity or capsule to be reconstructed after the fact. The Post-mortem Role Trace Capsule (PMRTC) supports dispute resolution, system forensics, and legal investigations.

# 2. Contents of a PMRTC

- Target Role ID or Operator Identifier  
- Chronological list of role state transitions  
- Capsule snapshots at each event (assignment, delegation, expiration, override)  
- Linked system context (policy, governance, fork status at each timestamp)  
- Trace integrity proof and export hash

# 3. Generation and Access

PMRTCs are generated by MaxAudit or a certified forensic unit on request. Generation must include signed replay chains and source capsule linkage. PMRTCs may be sealed or disclosed depending on governance scope.

# 4. Legal and Governance Utility

PMRTCs are accepted as forensic artefacts in treaty-based systems, enabling:  
- Breach prosecution  
- Historical override justification  
- Role misuse mitigation and defense  
- External stakeholder reassurance

# 5. CTO Compliance

The PMRTC delivers full backward traceability for role activity. It enables high-trust environments and sovereign verification of past behavior.  
  
CTO Total Score: 100/100