MPC-07: Process Walkthrough (Executable Logic Chain)

System: MaxProcess

Module ID: MPC-07

Version: 1.0

Title: Process Walkthrough (Executable Logic Chain)

Classification: Procedural Audit Demonstration

Responsible: TBYD Verification & Evaluation Team

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

Standards Reference: ISO/IEC 15408, TBYD Capsule Protocol v2.1

Applicability: MaxOneOpen v4.1+

# 1. Purpose

This module provides a complete, linear walkthrough of a process scenario implemented via ProcessCapsules. It illustrates role binding, execution conditions, refusal, override, and replay logic.

# 2. Scenario Overview

Example Scenario: Secure Deployment Approval Chain  
- Step 1: Initiation by Developer  
- Step 2: Review by Security Officer  
- Step 3: Final Authorization by Compliance Role  
- Step 4: Unexpected refusal by Security Officer  
- Step 5: Governance Override from Treaty Authority  
- Step 6: Full audit trace export and validation

# 3. Capsule Chain

- Capsule PROC-2025-01: created by ROLE-DEV, state: executed  
- Capsule PROC-2025-02: assigned to ROLE-SEC, state: refused  
- Capsule PROC-2025-03: fallback activated, awaiting governance  
- Capsule GOV-OVR-SEC01: override issued by ROLE-GOV-AUTH, state: executed  
- Capsule PROC-2025-04: authorization step resumed, state: executed

# 4. Governance Trace

Trace Anchor: MAXAUDIT-REF-6610  
- Refusal entry by ROLE-SEC with justification  
- Override capsule with timestamp, scope and justification (treaty clause 4.3)  
- Resumption of execution under temporary governance override  
- Exportable as `.trace.json` or `.audit.yaml`

# 5. CTO Summary

This walkthrough demonstrates how ProcessCapsules operate under real-world constraints and escalation scenarios. It proves structural auditability, refusal handling, and treaty-governed override – without executing untraceable backend logic.