MJU-16: Judicial Simulation & Testbed Capsule

System: MaxJudicial

Module ID: MJU-16

Version: 1.0

Title: Judicial Simulation & Testbed Capsule

Classification: Procedural Testing & Dry-Run Capsule

Responsible: TBYD Scenario Modeling Unit

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

Standards Reference: ISO/IEC 29119, TBYD Capsule Protocol v2.1

Applicability: MaxOneOpen v4.1+

# 1. Purpose

This module defines a simulation capsule to test judicial logic, escalation behavior, and capsule integrity under controlled conditions — without triggering enforcement or publication.

# 2. Capsule Fields

- capsule\_id: simulation capsule ID  
- test\_scenario: ENUM { treaty\_dispute, fork\_response, role\_conflict, compliance\_violation }  
- procedural\_sequence: ordered capsule list or test config file  
- simulated\_roles: list of mocked governance actors or role proxies  
- verification\_targets: outcomes expected (verdict, fork, override)  
- error\_injection: optional fault types (e.g. delayed vote, invalid signature)  
- trace\_export: BOOLEAN – generate report as if real trace  
- publish\_scope: ENUM { internal\_only, test\_suite, training\_release }

# 3. Example Use Case

Simulate a treaty violation resolution with 3 parties and judge rotation under missing role conflict — to test override paths.

# 4. CTO Summary

Judicial simulations improve governance readiness by exposing potential failure paths in a sovereign system. This capsule supports dry-runs, capsule training, and OSS onboarding — with full trace fidelity but no enforcement impact.