MaxBridge v1.2 – Supplement: CRS YAML Schema Definition

Module Title: YAML Schema Reference for Capsule Definition

Version: 1.2

Document Type: Supplementary Specification

License: TBYD License v2.2 + Addendum A (Preview Right Only)

Subsystem: MaxBridge (CRS Structural Format)

Release Context: Part of MaxOneOpen v4.1 ecosystem – standalone deployable

Status: CTO-aligned – schema reference document

# 1. Purpose

This supplement defines the YAML schema structure used by CRS-compatible capsules in MaxBridge. It serves as a technical reference for developers, validators and auditors building or inspecting capsules.

# 2. YAML Capsule Schema Structure

Each capsule must contain the following minimum fields:

* - `manifest:`
* - `capsule\_id`: string (unique)
* - `policy\_scope`: string (e.g. `access-control`)
* - `capsule\_class`: string (enforce | simulate | test)
* - `jurisdiction`: string (e.g. `treaty-eu2025`)
* - `input:`
* - Any request-specific fields as defined by the template
* - `meta.audit.json:`
* - `signature`: SHA256 or capsule hash
* - `timestamp`: UTC ISO format

# 3. Optional Fields

* - `anchor.ref`: string (if required by treaty linkage)
* - `policyRef`: string (if stack-based policy is applied)
* - `license.chain`: array of license declarations

# 4. Validation Requirements

All fields must be schema-valid and context-appropriate. Use of CRS ValidationKit is required for production validation. Missing required fields trigger Class C breach classification during runtime encapsulation.

# 5. Compatibility

This schema is compatible with MaxReg execution logic, MaxAudit trace certification, and MaxTune learning simulations. Capsules constructed according to this schema may be reused across MaxOneOpen or treated as standalone secure payloads.