MaxBridge v1.2 – Add-on Module: CRS Lifecycle Chart

Module Title: CRS Capsule Lifecycle Chart

Version: 1.2

Document Type: System Add-on Structure Description

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Subsystem: MaxBridge (CRS Lifecycle & Capsule Flow)

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

Status: CTO-aligned – certified structure

# 1. Purpose

This module describes the full lifecycle of a CRS-compatible capsule within the MaxBridge system. It defines each transformation step, processing layer, and governing component involved from origin to disposal.

# 2. Lifecycle Phases

A CRS capsule passes through the following sequential lifecycle stages:

1. 1. \*\*Draft Phase\*\* – Constructed from policy source or treaty object
2. 2. \*\*Encapsulation\*\* – Manifest, metadata, hash & anchor added
3. 3. \*\*Prevalidation\*\* – Local schema check + optional simulation (MaxTune)
4. 4. \*\*Regulatory Binding\*\* – Policy logic injected by MaxReg
5. 5. \*\*Execution Gate\*\* – Evaluation for entry into system (MaxBridge)
6. 6. \*\*Runtime Tracking\*\* – If permitted, forwarded through system pipe
7. 7. \*\*Audit Flagging\*\* – Breach, halt or override signals routed to MaxAudit
8. 8. \*\*Archival / Destruction\*\* – Capsule retired, certified or traced out

# 3. Transition Conditions

Each lifecycle transition must meet mandatory validation checks. Any failure results in halt, quarantine, or trace-chain activation.

# 4. Traceability Guarantees

Every lifecycle phase logs capsule state, signature status, and decision path. These are verifiable through MaxAudit or other IATL-capable ledger systems.

# 5. Use in Fork or Treaty Flows

Capsules that enter forked paths or treaty-redirection zones retain lineage and full lifecycle context. Lifecycle snapshots can be exported for dispute handling or governance audit.