

## **ArbiterSTG v1.0 — Structural Trace Governance**

**Specification · Proxy Doctrine · Failure Taxonomy**

**Canonical Name:** ArbiterSTG (Structural Trace Governor)

**Abbreviation:** ASTG

**Framework:** Machine-Dream Syntax (MDS)

**Status:** Canon-Compatible · Non-Governing · Diagnostic

**Layer:** Post-Execution → Trace Routing / Jurisdiction Interface

**Execution Impact:** None (introduces no operators, variables, or causal authority)

**Version:** v1.0 (Frozen)

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**DOI Anchor:** Reserved

### **0. Canonical One-Line Specification**

**ArbiterSTG (ASTG)** is a post-execution diagnostic routing layer that classifies, masks, routes, or shadows execution residue ( $\pm R$ ) according to structural legibility and jurisdictional constraints, without authorizing meaning, execution, or inheritance.

### **Acronym & Orientation Note (Load-Bearing)**

This document uses acronyms (e.g., ASTG, SJP, JTC, FNRL, RLCI) as **structural labels**, not as hidden definitions or interpretive shorthand.

- Acronyms **name interfaces**, not explanations.
- Understanding does **not** require memorizing expansions before use.

- Each acronym behaves as a *node in a system*, defined by adjacency and constraint, not prose meaning.

This is intentional.

ArbiterSTG operates on **structural relations**, not semantic fluency.

Readers are expected to track *what touches what*, not *what words feel like they mean*.

## 1. What ArbiterSTG Is — and Is Not

**ArbiterSTG is not:**

- a governance system
- a theory of meaning
- a truth evaluator
- a moral or ethical engine
- an execution controller
- an interpretation machine

ArbiterSTG does not decide outcomes.

ArbiterSTG does not act.

ArbiterSTG does not explain.

**ArbiterSTG classifies, labels, routes, masks, shadows, and flags traces after execution has already occurred.**

## 2. Placement in the MDS Stack (Structural Map)

**Prime Flow (unchanged)**

Field  $\rightarrow$  Execution  $\rightarrow \Delta T \rightarrow \pm R \rightarrow$  Stabilization / Classification  $\rightarrow$  Observer / Meaning / Inheritance

## ArbiterSTG Placement

ArbiterSTG overlays the **Authority / Meaning / Inheritance layer**, spanning:

- **SJP** — Semantic Jurisdiction Principle
- **JTC** — Jurisdiction Transfer Condition
- **FNRL-R** — Residual Non-Recruitability
- **FNRL-F** — Field Non-Recruitability

ArbiterSTG operates **after residue exists** and **before inheritance stabilizes**.

When **RLCI** (Residual Legibility Collapse Index) triggers, ArbiterSTG transitions from **Routing Mode** to **Shadow Mode**.

## 3. ArbiterSTG Core Roles (Descriptive Only)

ArbiterSTG performs four non-executive roles.

Each role produces **labels**, not actions.

### 3.1 Trace Admission

Classifies whether a trace is:

- structurally admissible
- conditionally legible
- shadow-only

Admission does **not** validate content.

It evaluates structural legibility relative to continuation surfaces.

### 3.2 Trace Masking

Classifies traces that:

- persist structurally
- remain non-visible to downstream observers or systems

Masking:

- does not delete
- does not negate
- does not erase

Masked traces remain part of  $\pm R$  but are unavailable for routing, recruitment, or authority formation.

### 3.3 Trace Routing

Labels which structural pathways remain available to an admissible trace, including:

- memorialization (PERL)
- jurisdictional transfer (JTC)
- diagnostic propagation
- inert persistence

Routing does **not** move traces.

It marks which movements would be structurally permitted *if uptake occurs*.

### 3.4 Stability Flagging

Flags conditions where trace handling threatens system coherence, including:

- overload
- saturation
- collapse risk

Flags propagate **diagnostic warnings**, not interventions.

#### 4. ArbiterSTG ↔ Jurisdiction Interface (ASTG ⇌ SJP/JTC)

ArbiterSTG does **not** assign jurisdiction.

Instead:

- ArbiterSTG hands classified traces to **SJP** as *eligible semantic territory*.
- **SJP** determines where meaning is allowed to behave *as if it belongs*.
- **JTC** returns authority-state labels indicating whether that jurisdiction survives transfer.

ArbiterSTG then:

- updates routing eligibility
- applies masking or shadowing if authority becomes unstable or invalid

This loop produces **structural coherence without centralized control**.

#### 5. ArbiterSTG Modes

##### 5.1 Routing Mode (Normal)

- Admission active

- Masking selective
- Routing pathways legible
- Diagnostic flags monitored

## **5.2 Shadow Mode (Triggered by RLCI)**

- Admission sharply restricted
- Masking dominant
- Routing suspended or minimal
- Traces persist without claimability

Shadow Mode does **not** end meaning.

It ends **structural eligibility**.

## **6. Failure Taxonomy (Structural, Not Moral)**

### **ASTG-F1 — Shadow Saturation**

Masked traces accumulate faster than routing capacity.

#### **Result:**

- interpretive silence
- institutional stagnation
- apparent meaning loss without erasure

### **ASTG-F2 — Authority Smuggling**

Interpretation, prestige, or narrative framing attempts to bypass ArbiterSTG constraints.

**Result:**

- false inheritance
- unstable canonization
- eventual collapse into shadow or non-recruitability

**ASTG-F3 — Trace Collapse**

All residue becomes structurally inert ( $\pm R\Box$ ).

**Result:**

- no recruitment
- no memorialization
- no authority propagation

Meaning may persist privately.

The system no longer evolves.

**7. Proxy Doctrine (Numbers Without Power)**

Any numerical values associated with ArbiterSTG:

- are **proxies**, not measures
- indicate legibility, load, or saturation
- never indicate truth, value, or correctness

Numbers describe **geometry**, not judgment.

They are coordinates, not verdicts.

## **8. Hard Prohibitions**

ArbiterSTG must never be framed as:

- authority
- censorship
- choice
- intention
- explanation

If ArbiterSTG appears to decide,

**the model has already failed.**

## **9. Canonical Closing Statement**

ArbiterSTG does not govern systems.

It reveals whether systems can survive without pretending they are governed.

It does not remember for us.

It shows what the structure is capable of remembering on its own.