

4.4 MOSE — Routing & Escalation Logic Specification

Version: v1.0

Status: Canonical / Implementation-Ready

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Applies To: MOSE v1.0, GARVIS, Pig Pen (Frozen), UOL, Flightpath, Telauthorium, TELA, ECOS

Effective: Immediate

Purpose

This document defines the executable routing logic for MOSE.

It specifies:

- How MOSE selects and sequences Pig Pen operators
- How MOSE applies UOL overlays (role/perspective/goals)
- How MOSE escalates, pauses, or halts under constraint conflict

MOSE routes work. MOSE does not approve outcomes.

Non-Negotiable Constraints

MOSE must obey the following constraints:

- Pig Pen operator registry is FROZEN (TAI-D only)
- Telauthorium may block any routing or execution
- GARVIS may halt on enforcement triggers
- Flightpath phase gates may block progression
- TELA cannot execute without MOSE-authorized routing

MOSE cannot override any upstream block.

Inputs (Required)

MOSE requires the following inputs before routing:

- tid (object identity)
- request_intent (structured intent)
- flightpath_state (SPARK/BUILD/LAUNCH/EXPAND/EVERGREEN/SUNSET)
- authority_taid (human authority responsible)
- uoid (optional overlay pack)
- tenant_id (if ECOS)

If any required input is missing, MOSE must block and escalate.

Output (Routing Plan)

MOSE outputs a Routing Plan with:

- Ordered list of operator consults (TAI-D)
- Purpose per operator (what it is asked to evaluate)
- Expected outputs per operator (recommend/flag/block/report)
- Escalation targets (human TAID)
- Stop conditions

Routing Plans are logged as Routing Events.

Step 1 — Eligibility Filter (Registry + Phase)

MOSE first filters eligible operators based on:

- Operator status (Active vs Inactive)
- Allowed phase scope (if defined)
- Tenant activation status (for expansion operators)

Unregistered or inactive operators are invisible.

Step 2 — Apply UOL (Permissions → Perspective → Goals)

If a UOID is present, MOSE applies overlays in this order:

1. Role Pack
 - Validates whether the request is allowed
 - Applies visibility and export constraints
2. Perspective Pack
 - Applies advisory weighting to consult order
3. Goal Stack
 - Adjusts priorities and thresholds within safe bounds

UOL may change consult order and framing, but cannot bypass enforcement.

Overlay application is logged as an Overlay Event.

Step 3 — Default Consult Order (No Overlay)

If no UOL is present, MOSE uses the default consult order:

1. ECOS Core Resolver (TAI-D-001)
2. Telauthorium Core (TAI-D-040)
3. Compliance & Legal Guardrail (TAI-D-042)
4. Levi Risk (TAI-D-014)
5. Trey Monetization (TAI-D-021)
6. Will Stats (TAI-D-018)
7. Naomi Creative Filter (TAI-D-009)
8. Writers Room (TAI-D-010)
9. Visual Drift Detection (TAI-D-031)
10. Completion Gatekeeper (TAI-D-050)
11. Confidence Threshold Engine (TAI-D-051)

12. Commercial Enforcement (TAI-D-041)

13. Report Surface Generator (TAI-D-060)

Expansion operators are excluded unless activated.

Step 4 — Stop Conditions (Hard)

MOSE must stop routing immediately if any operator returns:

- BLOCK (e.g., Telauthorium rights unclear; legal violation)
- HALT (commercial enforcement; execution forbidden)

When stopped:

- MOSE records an Enforcement Event
 - Escalates to the responsible human TAID
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Step 5 — Escalation Logic

Escalation is required when:

- Two operators conflict in a way that changes legality, rights, or risk exposure
- Confidence threshold is below required minimum
- Any enforcement block occurs
- The request exceeds the user's role permissions

Escalation targets:

- Primary: the authority_taid assigned to the TID
 - Secondary: TSID-0001 if a structural change is requested
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Step 6 — Execution Handoff to TELA

TEL A may execute only after MOSE produces:

- A valid routing plan
- A final "EXECUTION PERMITTED" signal (post blocks)

- A linked TID and human TAID

Execution handoff is recorded as a Routing Event and Execution Event.

Failure Modes

MOSE must block and escalate on:

- Missing TID
- Missing human TAID
- Rights ambiguity
- Registry mismatch
- Overlay permission violation
- Unresolved conflict

MOSE must never silently retry.

Required Logging

MOSE must write the following ledger events:

- Routing Event (routing plan created)
 - Overlay Event (if applied)
 - Enforcement Event (if blocked)
 - Decision Event reference (for human escalation outcomes)
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Canon Lock

This document defines MOSE Routing & Escalation Logic v1.0.

Any change requires a new version, founder authorization, and a published delta log.