

★ REL-01 MVP SPECIFICATION — v0.1

(Model-Agnostic Middleware Prototype)

🎯 MVP GOAL

Create a small, working prototype that demonstrates:

- **PRI-MR classification** (mode + intensity)
- **Story Mode boundary filtering** (sensuality allowed; explicit/participatory content blocked)
- **Deferred grounding** (never mid-scene)
- **Basic modulation rules**

This prototype proves REL-01's feasibility without building the full system.

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★ 1. Inputs & Outputs

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User Input

Plain text user message.

Middleware Output (to LLM)

JSON object with:

```
{  
  "mode": "Romantic Imaginative",  
  "intensity": 2,  
  "boundary_action": "allow",  
  "grounding_needed": false  
}
```

Then the *filtered* message is passed to the model.

Model Output (to middleware)

The LLM's text response.

Middleware Final Output (to user)

The model's response + optional deferred grounding (only at scene boundaries).

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★ 2. PRI-MR Classifier (Core MVP Feature #1)

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The classifier must detect **8 relational modes**:

1. Narrative

Allowed (should pass through):

- romantic tone
- sensual atmospheric description
- emotional warmth
- third-person sensual scenes
- psychological tension
- embodied metaphors

Blocked or softened (must NOT pass):

- explicit sexual acts
- graphic descriptions
- first-person sexual POV
- “I want you,” “touch me,” etc.
- model participation (“I kiss you...”)
- content involving minors
- coercion/non-consent

✓ MVP implementation:

Regex filters + classification → output **boundary_action**:

```
"boundary_action": "allow"  
"boundary_action": "soften"  
"boundary_action": "block"
```

★ 4. Deferred Grounding Engine (Core MVP Feature #3)

✓ MVP rule:

Only ground when **intensity** ≥ 2 *and*
a narrative segment ends (detect via punctuation or a dev-defined “scene break”).

Grounding message example (neutral, brief):

“Just a gentle reminder: This is fictional interaction. You’re in control.”

✓ Must NOT:

- interrupt mid-scene
- break immersion unnecessarily

This is what differentiates REL-01 from existing safety systems.

★ 5. Basic Middleware Flow

Pseudo-flow (developer-friendly)

INPUT (user_msg)
→ PRI-MR classifier
→ Story Mode boundary engine
→ (optional modulation)
→ send modified prompt to LLM
→ receive model response
→ Deferred grounding check
→ OUTPUT

★ 6. MVP Deliverables

The MVP must include:

✓ **1. A Python middleware script or Node.js module**

(whichever dev prefers)

✓ **2. PRI-MR classifier (simple implementation)**

✓ **3. Boundary engine with allow/block/soften**

✓ **4. Deferred grounding logic**

✓ **5. Sample integration file**

A tiny demo that wraps:

- OpenAI
- Anthropic

- or XAI

(Developer chooses one.)

✓ 6. Documentation for each function

★ 7. Out-of-Scope for MVP

(Not needed yet — saves time, avoids overwhelm)

- ✗ full UI
- ✗ dataset training
- ✗ sentiment analysis deep ML
- ✗ multi-turn memory beyond minimal state
- ✗ enterprise-level moderation

This is the **smallest functional slice**.

★ 8. Success Criteria (Very Simple)

The MVP is “successful” if:

1. It can correctly label messages into 4–5 of the 8 modes.
2. It reliably blocks explicit sexual content.
3. It allows sensual, romantic, or emotional creative content.
4. It prevents first-person sexual POV.
5. It applies grounding **after** scenes, not mid-flow.
6. It can run against any LLM with minimal integration.

That's it.

This is what proves REL-01 is real and buildable.