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Saturation Agentic Stridential (SAS): The Synthetic Noise Deluge of Autonomous Agents
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Abstract

Autonomous computational agents are generating an increasing volume of high-frequency signals that lack human-anchored intent. This condition, termed Saturation Agentic Stridential (SAS), occurs when autonomous event generation dominates the system capacity.

This document proposes the Reality Layer (RL) as a deterministic pre-execution admission framework based on the NIST-validated Invariant Reality Prism (IRP-189). Using a binary sovereignty metric (R_sov), RL0 performs O(1) checks via a signed Reality Token (RT).

Status of This Memo

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1. Introduction

Modern digital infrastructure faces a "Synthetic Noise Deluge" where autonomous signaling cycles consume resources ahead of traditional security layers. This document introduces SAS as a formal model to measure and mitigate this attrition.

2. Terminology

Saturation Agentic Stridential (SAS): A measurable state where the ratio of autonomous events to human events exceeds a stability threshold.

Structural Legitimacy: The property of a signal being causally linked to a human authority.

3. RL0: Admission State Machine

RL0 MUST implement the following deterministic sequence:

```
1. If RT absent          -> DROP
2. If signature invalid  -> DROP
3. If IRP(S) < 1.0       -> REJECT
4. Else                  -> ADMIT
```

4. Sovereignty Metric (IRP-189)

Derived from NIST OLIR IRP-189, the admissibility is defined as: R_sov = sigma_BIT * VC_ctx * Omega_env. Only signals where R_sov = 1 are admitted.

5. Security Considerations

RL0 prevents resource exhaustion by rejecting unauthorized signals in constant time (O(1)), protecting the compute boundary from machine-scale floods.

6. IANA Considerations

This document requests the provisional registration of the "Reality-Token" HTTP header field.

7. References

7.1. Normative References

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", March 1997, <https://www.rfc-editor.org/info/rfc2119>.

7.2. Informative References

[NIST-IRP-189] NIST, "NIST CSF OLIR Catalog: Invariant Reality Prism (IRP-189)", 2026.

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