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

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}), RL_0 performs $O(1)$ checks via a signed Reality Token (RT).

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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 Stridentia (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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