

Scientific Verification Protocol: The 10-Step Loop

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Subject: Deterministic Factual Invariance in OSINT Operations

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Abstract

To combat the drift of probabilistic information in Large Language Models (LLMs), this protocol establishes a rigid, non-linear verification process. By treating facts as immutable constants ($1 = 1 = 1$), the 10-step loop ensures that intelligence releases maintain professional rigor and scientific repeatability.

Methodological Steps

01. Observation

Initial detection of an informational anomaly or a specific data requirement within the operational theater.

02. Intelligence Requirement

Formalization of the query into a falsifiable request for information (RFI).

03. Hypothesis Formation

Establishing a baseline narrative or "predicted outcome" based on existing training data or public consensus.

04. Experimental Design

Defining search vectors specifically designed to locate contradictory evidence rather than confirming data.

05. Verbatim Collection

The extraction of raw data. Citations must be recorded exactly as they appear in the primary source.

06. Analysis

Critical evaluation of collected data against the hypothesis using established source-veracity hierarchies.

07. Decision Loop

Application of the Rejection Rule: If the source data contradicts the hypothesis, the hypothesis is discarded.

08. Conclusion

Formalization of the verified findings into a technical summary.

09. Replication

Validation by an independent secondary agent or model to ensure zero-drift in the conclusion.

10. Report

Final OSINT release with strict adherence to verification state markers.

Verification Taxonomy

Status Marker	Classification Criteria	Operational Validity
[VERIFIED]	Multiple high-veracity primary sources confirm.	High; suitable for policy formation.
[△ SCARCE]	Single source or fewer than 2 independent corroborators.	Medium; requires supplementary intel.
[X THEORETICAL]	Derived from logic/inference; no external data found.	Low; exploratory use only.

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