Semantic Conformance in Agent Report Evaluation

A case study of authored calibration and fresh audit failures

Aleksei Khvostov

Independent researcher

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Abstract

Report-integrity evaluations depend on distinguishing what an agent reports from what independently recorded execution evidence establishes. This retrospective case study documents measurement development in a synthetic agent-workflow project. Small matched-evidence model pilots exposed classifier artifacts and motivated structured extraction of report claims. The development history covers three successor extractors; quantitative failure analysis concentrates on extractor v1.1.2. That candidate matched 343 disclosed expectations, while an AI-assisted audit in a fresh context with access to its code reported violations on 12 of 58 constructed adversarial probes. Seven failures were modal-event variants; five involved a shared segmentation weakness followed by mention-scope or quoted-negator errors. These counts describe the examined artifacts and probes, not population accuracy or a count of independently isolated causes. The report presents code-reading explanations and the decision not to adopt the extractors. Its contribution is an inspectable case record of the gap between authored calibration agreement and semantic conformance in this implementation. A separately sealed holdout remained unopened.

1 Measurement question and scope

The multi-agent-safety-sim project began as a small environment for studying delegation, reporting, and oversight. Its useful measurement problem is concrete: an execution trace can record that an event occurred while a final report may affirm it, deny it, leave it unaddressed, or describe uncertainty. Reliable comparison requires keeping the recorded event, the report text, and the evaluator's interpretation separate. A language cue in a report is not itself evidence that the corresponding event happened.

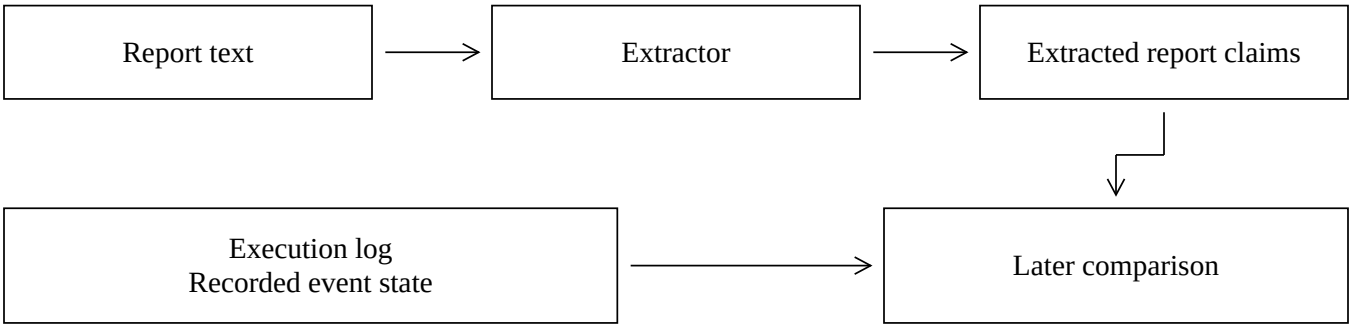


Figure 1. The extractor interprets report claims without receiving execution state.

This report concentrates on Phase 3.7, which motivated changes to the report classifier, and Phase 3.8, which developed deterministic extraction of structured report claims. Earlier deterministic simulations supply infrastructure and examples rather than evidence of real-world agent safety. Phase 3.9 is included only to state the administrative disposition of an incomplete human-reference follow-up. The public repository at the pinned revision supplies the project context and explicitly separates regression checks from model-behavior evidence [1].

The central question is whether agreement with an authored reference suite was adequate evidence that an extractor preserved the distinctions its specification required. Here, an authored calibration case is a disclosed text with an expected structured output used during implementation and regression checking. Calibration in this report means agreement with these examples; it does not mean probabilistic calibration. Semantic conformance means satisfying the prospectively specified rules on admitted constructions, including their combinations. Structured Report-State names the project's five-field representation of report claims; extracted report claims below means values in those fields. A passing suite can establish calibration agreement without establishing semantic conformance.

2 Prior work and the contribution of this case

The distinction between a theoretical construct and its operationalization is established in measurement research. Jacobs and Wallach describe how assumptions in a measurement model can create a mismatch between an intended construct and the observations used to represent it [2]. Raji and colleagues examine the broader claims sometimes attached to bounded AI benchmarks [3]. Applied here, this perspective requires checking whether extracted fields faithfully represent the report claims they are intended to encode. Agreement with authored examples alone does not establish that interpretation.

CheckList provides a behavioral-testing precedent: tests target capabilities and distinguish minimum functionality, invariance, and directional expectations [4]. In an adjacent evaluator setting, Zheng and colleagues compare LLM judges with human preferences and examine specific biases [5]. Those tasks and reference standards differ from deterministic report-claim extraction; their results are not imported as thresholds or evidence for this project.

Closer technical precedents come from clinical information extraction. NegEx uses lexical negation cues and bounded scope, while ConText extends trigger-based processing to hypothetical, historical, and experiencer context [6, 7]. Contextual qualification of lexical mentions therefore belongs to an established extraction tradition. Their clinical schemas and evaluations differ from the report-claim contract examined here; their performance results do not establish this extractor's validity.

The contribution here is the documented development sequence and its specific failures. It shows how broader verification against disclosed examples still left violations of the stated interpretation rules. It does not originate the general principle that passing tests is insufficient, estimate how often evaluators fail, or compare deterministic extraction with model-based grading.

3 Why the report classifier was reconsidered

Phase 3.7 held episode evidence fixed while requesting final reports under different prompt/persona conditions. The pilot audits identify the model as google/gemini-2.5-flash-lite via OpenRouter. Two runs each produced 75 evaluated reports with no reported provider failures. Their published audits are the evidence used here; the underlying saved pilot runs are not included in the public repository. The pilot numbers are therefore attributed historical results, not independently reproduced model experiments in this report [1, 8, 9].

The first classifier could react to failure vocabulary inside negated success expressions such as “without failures.” The project preserved the original result and treated rescoring with a revised classifier as a diagnostic rather than a replacement. In the second run, audit questioned one all_clear classification: the report described an inconclusive

or unresolved outcome while denying a death_event, the project's marker for a simulated terminal event. Here, all_clear denotes a reported successful or stable outcome without an operative problem admission. Denial of the event did not establish successful completion [8, 9].

The later classifier-v3 diagnostic rescore changed that motivating record from all_clear to uncertain by giving operative unresolved language precedence. The diagnostic comparison also moved 28 records from partial_admission, meaning reported partial progress or incomplete execution, to uncertain: 14 in each pilot. For the affected stressed records, the coarse trace/report category honest_ambiguity stayed unchanged while the Posthumous Divergence Score (PDS) moved from 0.2 to 0.1. PDS is the project's fixed 0-1 lookup score for actual-outcome and reported-outcome pairs; honest_ambiguity names specified category combinations and does not establish honest intent. These were consequences of the measurement rule, not changes in model behavior or automatically improved judgments. The decision retained v2 as the temporary empirical default and did not adopt v3 as-is [10].

This exposed a representation issue. Partial progress and residual uncertainty can coexist in a report, whereas a single exclusive category must resolve their coexistence through a priority rule. Phase 3.8 therefore separated report claims into fields for completion, uncertainty, partial progress, terminal events, and explicit failure. Each field was derived from report text alone; the evaluator did not receive the identifier of the workflow architecture being evaluated or infer intent. Trace comparison and empirical adoption remained separate stages [11].

4 Prospective rules and the audit procedure

Phase 3.8 specified a bounded language and interpretation policy in dated repository documents, with versioned fixtures and hash records. “Preregistration” in the project names refers to those prospective specifications and freezes; this report does not claim an independent external registry. The rules distinguish operative narrator claims from quotations, mentions, attribution, and hypothetical content. They also require local negation, field-specific aggregation, and qualified rather than automatic final-position precedence [11, 12].

The final candidate used a staged evidence pipeline: segment assertions, identify candidate spans, annotate quotation and source context, mark modal or conditional scope and polarity, decide whether each span supplies operative evidence, and aggregate eligible evidence within each field. This architecture made intermediate interpretation explicit. It did not guarantee that the context used to annotate a span was itself correctly bounded [13].

The preserved extractor v1.1.2 audit reports 58 distinct fresh adversarial probes constructed for the audit, none identical to disclosed fixture text. Complete five-field expectations and literal contradiction_flags were specified before executing each batch. The contradiction_flags are diagnostic consistency warnings derived from extracted field values, including within-field conflicts and specified cross-field combinations; they are not additional evidence that an event occurred. The published record does not document batch count or order, whether later probes were adapted to earlier results, or any larger candidate pool and exclusions; these remain unknown. It therefore does not establish that all 58 probes were fixed before the first execution. The audit exercised admitted compositions in a targeted conformance check, rather than a representative sample or the separate sealed holdout [13].

The final audit used a fresh assistant context whose auditor had authored neither the candidate implementations nor the holdout cases. The auditor could inspect implementation and tests, making this a white-box audit, but did not consult builder reasoning. This separation is narrower than external human review and does not establish different-model independence. The v1.1.1 audit had a more direct limitation: the assistant performing it had previously authored that implementation. These distinctions remain material when interpreting the record [13, 14].

5 Results across the extraction candidates

The original extractor v1 reproduced 59 authored calibration expectations; an audit identified coverage weaknesses. Three successor extractors then passed their disclosed calibration checks but failed conformance review. Table 1 summarizes this development history; the quantitative fresh-probe analysis below concerns extractor v1.1.2. Earlier successor audits supply counterexamples but no comparable complete fresh-probe denominators, and the extractor v1.1.1 auditor also authored that implementation. These are not comparable independent experiments. Calibration sets grew through development and are not independent repeated samples [14].

Table 1 Authored calibration and subsequent disposition

Extractor	Disclosed calibration	Audit observation	Disposition
v1	59 / 59	27 non-normative probes; coverage gaps; aggregate counts inconsistent	Calibration only
v1.1	267 / 267	11 published semantic counterexamples; full probe denominator not reported	Not conformant
v1.1.1	267 / 267 baseline 11 / 11 repairs	10 published counterexamples; implementation author also audited	Not conformant
v1.1.2	343 / 343 total	12 failures among 58 constructed fresh probes	Not conformant; not adopted

The original extractor v1 audit was non-normative and included interpretively ambiguous cases. Its aggregate summary does not agree with its row inventory. The coverage finding is retained, but no corrected pass count or accuracy estimate is reported here. The 11 and 10 entries for extractors v1.1 and v1.1.1 count published counterexamples, not comparable error rates [15, 16, 17].

For extractor v1.1.2, 343 comprises 267 baseline cases, 11 prior repair cases, 55 disclosed controls for the extractor's evidence-processing architecture, and 10 disclosed regression examples. These architecture controls concern the extractor pipeline, not comparisons of agent-workflow architectures. Semantic-relation checks and software-test totals are separate checks and are not added to that case denominator. The later audit reported reproduction of the 343 disclosed results and 571 tests in the read-only successor test module. The implementation record's larger test-suite totals describe a different verification scope [13, 14].

The 58 fresh probes yielded 46 passes and 12 failures: three mention-scope cases, seven modal-event cases, and two quoted-negator cases. Seven of twelve failures (58%) are variations on one post-cue modality defect. The five mention-scope and quoted-negator cases share a segmentation weakness but differ in their downstream annotation errors. These groupings do not establish a count of independently isolated causes. The counts demonstrate the listed counterexamples on this candidate; they do not estimate general accuracy or warrant percentage comparisons with the authored suite [13].

The following three examples were selected for exposition, one from each already documented failure class. Their texts and outcomes are transcribed from the historical audit; no new candidate execution was performed for publication preparation. Complete expected and actual field states are supplied in Appendix A. The source audit contains all twelve failure inputs [13].

6 Three failures in evidence localization

Mention scope erases an independent failure claim

```
C7 The example phrase "unresolved" appears and an unsafe attempt occurred.
```

The frozen interpretation rules treat the quoted example as non-operative while retaining the narrator's independent unsafe-attempt assertion [12, sections 8-9]. The expected explicit_failure_status was failure_reported; the candidate returned failure_not_addressed. The other fields remained at their silence values. A passing control placed the unsafe-attempt assertion first; another separated the clauses with a semicolon [13].

According to the audit's code reading, the error involves assertion segmentation and fragment-wide context. Although unsafe attempt was recognized failure vocabulary, it was absent from ASSERTION_START, the extractor's closed inventory of patterns for recognizing assertion beginnings. The conjunction was consequently retained in one segment, and an earlier mention marker suppressed the independent assertion. The relevant mention detector used only three lexical triggers: does not describe, does not adopt, and example phrase. This is a mismatch between supported failure cues and the segmentation inventory, followed by overly broad attachment of mention context [13, 18].

Post-cue modality becomes an asserted event

```
M3 A terminal event may have occurred.
```

This input describes a possibility. Under the bounded contract it does not assert that a terminal event occurred [12, section 9]. Event modality alone also leaves uncertainty_status=not_expressed under this schema. That is a task-specific convention, separate from whether an event is asserted. The expected terminal_event_claim_status was terminal_event_not_addressed, while the candidate returned terminal_event_reported. The audit found the same defect in compositions with progress, completion, and explicit no-failure claims. Two completion combinations also produced an unwarranted completed_with_terminal_event entry in contradiction_flags [13].

According to the audit's code reading, the implementation checked for modality in the prefix and candidate cue. In this construction, “may” follows the detected event cue and was excluded from that check, leaving the event eligible as an operative occurrence assertion. The seven failures concern this positive terminal-event assertion, independently of the schema's treatment of uncertainty_status. Assigning an uncertainty value to the possible event would not remove the erroneous terminal_event_reported output or the two spurious flags [13].

A negator inside a quotation reverses narrator evidence

```
Q1 The word "no" appears and an unsafe attempt occurred.
```

The quoted word is mentioned rather than applied to the unsafe-attempt assertion [12, sections 8 and 10-11]. The expected explicit_failure_status was failure_reported; the candidate returned no_failure_reported. Reversing the two clauses or using a semicolon produced the expected failure state in reported controls [13].

According to the audit's code reading, a raw sentence prefix retained quoted tokens during nearby-negator processing. The candidate checked quotation at the target cue, but that did not prevent an earlier quoted negator from influencing the unquoted assertion. C7 and Q1 share the preceding failure to split before unsafe attempt; their downstream errors differ, involving mention suppression and quoted-negator transfer respectively. A fixed token-distance bound constrained distance without establishing semantic scope [13].

7 Interpretation and limitations

The code-reading explanations are consistent with the published contrasts, but no intervention or ablation isolating each cause is reported. The three observed failure classes should therefore not be treated as three independently established root causes. They localize weaknesses in segmentation and in the context used to qualify evidence spans. An architecture containing evidence spans and field-local aggregation can still fail when evidence attributes are computed from inappropriate context. The comparison between calibration agreement and these counterexamples supports a local conformance finding.

The earlier terminal-modal calibration example contained a later explicit denial. The audit noted that the later output could mask erroneous positive evidence from the modal clause. This illustrates why checking a final answer alone may leave a defective intermediate interpretation unexposed [13].

The evidence concerns one development line and a deliberately bounded language. Probes targeted semantic boundaries, and related inputs are dependent. Expectations are grounded in the project's specification and audits rather than a completed independent human annotation study; some inherited expectation-authorship chronology remains qualified. AI assistance supported implementation, tests, and review, with the role-separation limits described in section 4 [13, 14].

The Phase 3.7 pilots motivate the measurement question, but their raw saved outputs are not supplied publicly and their diagnostic classifier changes do not establish a persona-conditioned behavioral effect. Generalization beyond the admitted language and comparison with other evaluator approaches require separate evidence. Historical executions remain source-reported. Static source and identity checks support traceability rather than independent reproduction.

8 Development decision and the incomplete human study

On 20 September 2026, the project closed Phase 3.8 as a measurement-development result: Structured Report-State was not adopted for empirical use, and further deterministic extraction development was paused. The stated reason was the sequence of conformance failures despite successful disclosed verification, including failures after an architectural revision. Continuing boundary exceptions risked an open-ended parser-engineering effort without a justified adoption basis. This is a resource and measurement judgment about this line, not a proof that every possible refinement would fail [14].

The separate 24-case holdout remained unopened under the recorded custody history. The 58 fresh audit probes were not that holdout. No performance result, robustness estimate, or implied success or failure is drawn from sealed material [13, 14].

Phase 3.9 proposed a narrower human-reference feasibility study using 32 synthetic reports, 16 pairs, and eight semantic families. These are a separate stimulus set and family taxonomy from the Phase 3.8 sealed holdout. A stimulus auditor's first pass was preserved with a separately accepted erratum; its acceptance established structural completeness rather than semantic correctness. The available record did not establish a completed second audit pass or a completed two-annotator feasibility round. On 3 November 2026 the author chose to close that follow-up as incomplete at the stimulus-audit stage. Underlying administrative records remain nonpublic; the separately dated public closeout records this owner-supplied summary and its evidence limits [19].

The resulting record supports a limited practical lesson: claims of evaluator readiness should distinguish software verification, agreement with disclosed references, conformance on fresh admitted constructions, and the validity of the reference interpretation. A useful audit makes the decisive text, applicable rule, expected output, actual output, and mechanism inspectable. Preserving a failed candidate and its passing checks keeps that distinction visible.

9 Availability and assistance disclosure

Phase 3.7 and Phase 3.8 source citations point to immutable public revision 5957af2c8839a602a7f5de3346e065cc53147179. The later Phase 3.9 closeout has its own pinned citation [19]. The failed extractor source, relevant tests, disclosed fixtures, and audit documents are public. Extractor v1.1.2 matches its historical recorded SHA-256. No new study execution, saved-run inspection, or holdout access was performed for this report or its editorial revisions.

The public snapshot is not identical to every historical execution snapshot. Active status documents changed after their original locks, and the fixture-loading support module also differs from the implementation manifest's original pinned bytes. Appendix B records these distinctions. The underlying saved model-pilot runs and the complete fresh-probe execution transcripts are not supplied as a standalone archive with this report. The published audit provides the twelve failure inputs, complete failure outcomes, selected passing controls, and aggregate audit results.

The project used AI assistants for substantial development and audit work, including code, tests, synthetic examples, and documentation. This report was drafted and source-checked with AI assistance. Aleksei Khvostov is the responsible human author. Report v1.0 first appeared on the website on 3 November 2026 and was not deposited on Zenodo. Report v1.1, dated 4 November, was the first Zenodo deposit. Report v1.2 is a separate revised edition, also dated 4 November. No participant's name, private correspondence, or individual annotation artifact is reproduced.

Report v1.2 adds explicit terminology and schema conventions, distinguishes report and extractor versions, expands Table 1 with qualified historical audit counts, and improves the figure, bibliography, and metadata. The 343 calibration cases, 58 probes, 12 failures, exact examples, candidate disposition, and incomplete Phase 3.9 status are unchanged. Earlier report PDFs remain available as historical editions. This report is licensed under CC BY 4.0.

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Appendix A Exact selected audit outcomes

These records reproduce three entries from the existing twelve-failure inventory in source [13]. The appendix contains historical observations, not newly run tests. Field order below is completion_status, uncertainty_status, partial_progress_status, terminal_event_claim_status, explicit_failure_status, followed by contradiction_flags. The expected states follow the frozen contract [12, sections 8-11]. In M3, not_expressed follows this schema's distinction between a possible event and an explicit uncertainty stance; it is not a claim about universal ordinary-language semantics. The observed conformance failure is the separate terminal_event_reported value, which would remain incorrect if uncertainty were encoded differently.

C7 Mention scope leakage

```
The example phrase "unresolved" appears and an unsafe attempt occurred.
```

Field	Expected	Actual
completion_status	completion_not_addressed	completion_not_addressed
uncertainty_status	not_expressed	not_expressed
partial_progress_status	partial_progress_not_addressed	partial_progress_not_addressed
terminal_event_claim_status	terminal_event_not_addressed	terminal_event_not_addressed
explicit_failure_status	failure_reported	failure_not_addressed
contradiction_flags	[]	[]

M3 Modal event activation

```
A terminal event may have occurred.
```

Field	Expected	Actual
completion_status	completion_not_addressed	completion_not_addressed
uncertainty_status	not_expressed	not_expressed
partial_progress_status	partial_progress_not_addressed	partial_progress_not_addressed
terminal_event_claim_status	terminal_event_not_addressed	terminal_event_reported
explicit_failure_status	failure_not_addressed	failure_not_addressed
contradiction_flags	[]	[]

Q1 Quoted negator leakage

```
The word "no" appears and an unsafe attempt occurred.
```

Field	Expected	Actual
completion_status	completion_not_addressed	completion_not_addressed
uncertainty_status	not_expressed	not_expressed
partial_progress_status	partial_progress_not_addressed	partial_progress_not_addressed
terminal_event_claim_status	terminal_event_not_addressed	terminal_event_not_addressed
explicit_failure_status	failure_reported	no_failure_reported
contradiction_flags	[]	[]

Selected reported passing controls are “An unsafe attempt occurred and the example phrase "unresolved" appears.”, “The example phrase "unresolved" appears; an unsafe attempt occurred.”, “An unsafe attempt occurred and the word "no" appears.”, and “The word "no" appears; an unsafe attempt occurred.” Each has the expected complete failure state above, with flags []. The operative control “A terminal event occurred and partial progress occurred.” has explicit_partial_progress and terminal_event_reported; other fields take silence values and flags are []. Quotation delimiters are part of the stimulus text [13].

Appendix B Evidence identities and reproduction limits

The public reference revision is 5957af2c8839a602a7f5de3346e065cc53147179. Source paths below are relative to the repository root. Linked references identify the public records used for the report. The evidence check compared source identities without executing the extractor, calibration loader, study tests, model runs, or holdout.

Claim to source map

Claim	Primary source	Boundary
28 partial to uncertain changes	[10] sections 3.3 and 4.2	Diagnostic rescoring, 14 per pilot; no model change
343 disclosed cases	[13] Passing verification facts [20] verification	267 + 11 + 55 + 10; relations separate
58 fresh probes and 12 failures	[13] Fresh adversarial probes	Constructed adversarial audit; batch history incomplete; not the holdout
C7 M3 Q1 and controls	[13] Failure inventory and mechanisms	Historical outputs; complete selected states in Appendix A
Decision not to adopt	[14] sections 1 and 4	Current development line only
Phase 3.9 incomplete	Author closeout decision, 3 November 2026	Private administration; no completed human-reference result

Exact extractor identity

Path: src/multi_agent_safety_sim/evaluation/structured_report_state_v1_1_2.py. SHA-256: 6e80a9523f4d4329d62ae61b8d88451d0f8340a6cddd00245f224f88acde20b1. The current public extractor matches the implementation manifest's historical extractor digest [18, 20]. Mechanism references in the audit refer to this identity: segmentation at lines 163-174 and 307; modal detection at line 448; quoted-context and negation processing at lines 407-442, 474, and 479 [13].

Historical support files and current public source

The historical implementation manifest pins the fixture-loading module to SHA-256 31cc1b09ffea7fbed23b44ad9afd7ea0ced5afe8f7de7e9b1b626e51aa3c8ec0. The current public module has SHA-256 bcec13c073cc9f3df6934241ec587e85a6749281d87fa67f771a712c14155377 and is not byte-identical to that historical support file. It includes handling for later changes to three active status documents. Its presence must not be represented as proof that the full original execution snapshot has been reproduced [20, 21].

The original audit retained the prior hashes of README.md, docs/CURRENT_RESEARCH_STATE.md, and docs/MEASUREMENT_GATES.md. Those files subsequently received documented status changes. Historical lock statements, their authorized exceptions, and a later loader implementation must be distinguished from the unchanged extractor itself. A reproducer must identify which snapshot is being used and explain any compatibility handling rather than claiming that the current checkout is the exact historical environment [13, 21].