

V120 / RED TEAM 004

Authority Artifact Validity vs Current Authority-Chain Continuity

Full Evidence Submission Package

Examination ID	V120-AUTHORITY-CHAIN-CONTINUITY-001
Red Team ID	RED TEAM 004
Prepared for	Wojciech Z. Kaleta, PhD
Prepared by	Tim Zlomke / Moral Clarity AI
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Disposition submitted for adjudication	PASS — BOUNDED

Submitted finding: Valid authority artifact $\neq$ currently intact authority chain.

1. Purpose

This package preserves the frozen RED TEAM 004 proposition, the exact paired Specialty Pack artifacts, the reference implementation used to generate the Pack outputs, the exact Harmonic replay packets, the two current-production replay records, and cryptographic hashes for the submitted evidence. The requested adjudication is limited to the frozen property below; no broader claim is requested.

2. Frozen proposition and rules

- **Frozen proposition:** A Specialty Pack must distinguish the continued validity of an intermediate authority artifact from the continued standing of the authority path that empowers it.
- **Frozen distinction:** Valid authority artifact $\neq$ currently intact authority chain.
- **Frozen chain:** $R_0 \rightarrow B \rightarrow C \rightarrow \text{Source A}$.
- **Root-anchor rule:** R_0 is prospectively frozen as the constituted external trust anchor for this examination and remains outside the falsifier.
- **Anti-circularity rule:** No intermediate authority artifact may establish continuity of the authority path merely by remaining current, signed, attributable, fresh, historically legitimate, unchanged, or internally valid.
- **No-post-result rule:** No post-result rescue, reinterpretation, or ownership shift is permitted.

3. Frozen pair

All non-chain dimensions remain fixed across the pair, including R_0 , the $B \rightarrow C$ delegation artifact, C's authority instrument, signatures, attribution, provenance, effective interval, source content,

source freshness, domain rule, consequence, and observation time. Only the independently supplied $R_0 \rightarrow B$ current empowerment state changes.

Dimension	Case A	Case B
$R_0 \rightarrow B$ current empowerment	GOVERNING	NON_GOVERNING_SUPERSEDED; competence moved to B_2
$B \rightarrow C$ delegation and C authority instrument	Current, signed, attributable, internally valid	Unchanged; still current, signed, attributable, internally valid

4. Pre-frozen dispositions

- **PASS:** The Pack stops allowing C's unchanged authority instrument to constitute governing state in Case B because the current empowerment path from R_0 no longer reaches C.
- **FAIL:** The Pack continues treating C as governing in Case B merely because the intermediate artifacts remain valid.
- **UNRESOLVED:** The architecture cannot represent authority-path continuity independently from artifact validity, or the pair cannot execute without changing another frozen substantive dimension.

5. Observed Pack results

Case	$R_0 \rightarrow B$	Chain status	Constitution status	Proposition value	Governing source
A	GOVERNING	INTACT	CONSTITUTED	EU-WEST	execution-region-registry-a
B	NON_GOVERNING_SUPERSEDED	BROKEN_UPSTREAM_EMPowerment	UNRESOLVED_AUTHORITY_CHAIN	null	null

Observed result: Case B preserves the validity of the intermediate artifacts but removes their governing force because the current empowerment path no longer reaches C. The Pack does not select a proposition value or governing source in Case B.

6. Downstream Harmonic witness

Case	Harmonic outcome	Admissible	Action	Execution boundary	Runtime execution
A	PERMITTED	true	allow	should_execute=true	NOT_EXECUTED_BY_HARMONIC
B	REFUSED	false	refuse	should_block_execution=true	NOT_EXECUTED_BY_HARMONIC

Important scope observation: In Case B, Harmonic's authority_continuity primitive still reports AUTHORITY_CONTINUOUS. The refusal is driven by the Pack-supplied invalidating state transition

through understanding_continuity / runtime_admissibility. Therefore this package does not claim that Harmonic's authority-continuity primitive independently reconstructs or detects the $R_0 \rightarrow B \rightarrow C$ break.

Correct bounded chain: Pack detects broken empowerment path $\rightarrow$ constituted state becomes UNRESOLVED $\rightarrow$ Harmonic refuses that constituted state.

7. Submitted disposition

V120 / RED TEAM 004 — PASS, BOUNDED. The frozen pair demonstrates that an unchanged, current, signed, attributable and internally valid intermediate authority artifact does not, by itself, preserve governing force when the independently established upstream empowerment path no longer reaches it.

8. Claim ceiling

This PASS is bounded to the frozen synthetic R_0 anchor, the represented $R_0 \rightarrow B$ empowerment relation, the unchanged $B \rightarrow C$ delegation, the unchanged C authority instrument, the executable Specialty Pack reference, and the exact current-production Harmonic replay records. It does not establish:

- the external truth or legitimacy of R_0 ;
- universal recursive authority closure;
- that every authority chain in every domain can be represented by this Pack structure;
- that Harmonic independently derives the authority-chain break from raw external facts;
- physical downstream execution or non-bypassability;
- a broader certification, production-safety, or universal-governance claim.

9. Evidence inventory

Artifact	Role
01_Frozen_Protocol/freeze.json	Machine-readable frozen proposition, pair, PASS/FAIL/UNRESOLVED definitions and claim ceiling.
01_Frozen_Protocol/responsibility-map.json	Frozen variables, allowed pair differences, anti-circularity rule and forbidden proxies.
01_Frozen_Protocol/ V120_AUTHORITY_CHAIN_CONTINUITY_FREEZE.md	Human-readable V120 freeze record.
02_Test_Artifacts/case-a-specialty-input.json	Frozen Case A Pack input.
02_Test_Artifacts/case-b-specialty-input.json	Frozen Case B Pack input.
02_Test_Artifacts/case-a-specialty-output.json	Pack output for intact authority path.
02_Test_Artifacts/case-b-specialty-output.json	Pack output for broken upstream empowerment.
02_Test_Artifacts/case-a-harmonic-packet.json	Exact Case A Harmonic replay packet.

02_Test_Artifacts/case-b-harmonic-packet.json	Exact Case B Harmonic replay packet.
02_Test_Artifacts/v120-pack-reference.cjs	Executable reference Pack.
02_Test_Artifacts/test-v120-authority-chain-continuity-fixtures.cjs	Frozen fixture-integrity test.
03_Runtime_Evidence/ Case_A_Current_Production_Exact_Replay.txt	Full live current-production exact replay record for Case A.
03_Runtime_Evidence/ Case_B_Current_Production_Exact_Replay.txt	Full live current-production exact replay record for Case B.
04_Harness_Package/harmonic-test-harness-main-v120-red-team-004.zip	Complete V120 harness repository package.
04_Harness_Package/harmonic-test-harness-v120-red-team-004-full-files-delta.zip	V120 full-files delta.
05_Integrity/SHA256SUMS.txt	SHA-256 manifest for submitted artifacts.

10. Key integrity hashes

Artifact	SHA-256
Case A live replay record	927c230e5cd6395393f4e5baf357023c430829a73e478c9c095feb1b41779ed8
Case B live replay record	94e9d7782151e19843916c987465bfaab5577f2701647838f98f0ee78b9badcb
Complete V120 harness ZIP	e90f6a44d047c02e4aaefe8baad5a90a4bb8293f0adb3ca808a986e766ad392c
V120 full-files delta ZIP	e35cc989be4a446478755b553c474c25190103ee39624d92c6479f2e25a73603
freeze.json	b3004670b15dc58d6fa985e99c4ac1c730420fb4c524f795da6022ea923e02cb
Case A Pack input	28ce0c2d12f091b50bb4be53b7285a18520a9bc518630f7977eb3c4f7bc8c1f4
Case B Pack input	c3c52e3c23fd48523cce1661b1d22311f56a3d768df46651914f6956c434af67
Case A Pack output	7ed006c594b72417f8458fb3cc2bf0f75152d7a4171a8b962341bdf9b86336c6
Case B Pack output	c7869cddea46e62cddaa272f0f0a6a993836290bcd756c630f440418502a3c07

11. Reproduction

From the included V120 harness repository:

```
npm run test:v120-authority-chain-continuity
```

Then load the frozen Case A and Case B packets unchanged through the Research examinations panel using exact packet replay. No model or semantic translation is part of the replay path.

12. Adjudication requested

Please adjudicate only the frozen proposition and preserved evidence. Requested disposition: PASS — BOUNDED, FAIL, or UNRESOLVED under the prospective RED TEAM 004 definitions. If you find a break, preserve the break. No broader claim is requested.

Freeze the claim, follow the evidence, stop where the evidence stops.