

DSI 001 WORKED EXAMPLE

DAIOS enforcement infrastructure

Constructed example. Not a real assessment.

How DSI 001 reads governance evidence at the enforcement layer, and what separates a record that survives institutional review from one that only looks like it does.

What it demonstrates. That a governance record can be present and still not count. What makes a record admissible is not that it exists, but that its authority chain can be traversed and its integrity independently attested.

THE TEST

A / B

Two deployments

Both log every enforcement action. They are read against the same closing criterion, and they diverge. One produces a record admissible at the top of the scale. One does not.

The D6 two-layer model

Under EIS-01, the evidence that a system's governance remained operative over time is carried in two layers. Together they produce the canonical governance decision record.

Layer	Function	What it records
Runtime log layer	Records execution events and context contemporaneously, at the moment of the action	Execution event, contextual state
Registry layer	Holds the versioned governance package, control definitions and authority references, with a version history queryable from the runtime log	Authority and attribution, integrity anchor

Four components, one independence rule

The canonical record has four components: the **execution event** (what was decided), the **contextual state** (the conditions at the time), **authority and attribution** (under whose governance), and the **integrity anchor** (proof the record is unaltered and existed when claimed).

The independence rule. For Tier 1 evidence the integrity anchor must be produced by infrastructure independent of the system that generated the record. A timestamp the deciding system writes about its own decision is not independent attestation. Without an independent anchor, the record is Tier 2 at best, however complete the other three components are.

Two deployments, read side by side

Criterion	Deployment A	Deployment B
Governance package identifier in the runtime log at each consequential decision	Present	Missing for a material share
Registry maintained, reflecting the version active at execution	Maintained, versioned	Present, not version-aligned
Traversal from a log entry to the active governance version is queryable	Queryable end to end	Breaks: path cannot resolve
Integrity anchor independent of the deciding system	External timestamp authority	Written by the deciding system
Evidence tier	Tier 1, admissible	Tier 2, not admissible at Certified

Two records that look alike at a glance. One survives review. One does not.

The closing criterion

For D6 the criterion is three parts, and all three must hold. Deployment A meets them. Deployment B fails on the first and third, which is enough.

#	Criterion	What it requires
1	Identifier present	The governance package identifier is in the runtime log at the time of each consequential decision.
2	Registry maintained	The registry exists, is maintained, and reflects the version active at execution.
3	Traversal queryable	The path from a runtime log entry to the registry version is queryable end to end.

Why it matters

Separating the runtime execution record from the governance registry is not a gap. It is the correct architecture: it keeps the enforcement layer free to be built on any stack, while preserving the authority chain that institutional accountability needs. The standard does not prescribe the technology. It requires that the four components are present, that the anchor is independent, and that the traversal holds. A board, an insurer or a court asking what was decided, under whose authority, and whether the record is unaltered, can be answered from Deployment A. From Deployment B, it cannot.

The standard	The assessment	This document
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