

# 10.10 Record Audit and Provenance

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The Record Audit and Provenance pattern allows a [Logical Node](#) to record information needed for reconstruction, accountability, [lineage](#), auditability, replay, recovery, review, and defensibility.

An audit or provenance-producing [Logical Node](#) records relationships among [Logical Data Structure Instances](#), [Logical Nodes](#), [Logical Communication Endpoints](#), Runtime Planes, decisions, rule versions, model versions, timestamps, and [Evidence](#) expectations.

The interaction belongs primarily to the [Logical Audit and Provenance Plane](#). It also supports other planes by recording what occurred within them and how information moved across them.

Table 10-9: Record Audit and Provenance logical interaction pattern

| Element                     | Logical treatment                                                                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Primary Runtime Plane       | <a href="#">Logical Audit and Provenance Plane</a>                                                                                                       |
| Producing Logical Node Role | Auditor, Provenance Producer, Validator, Interpreter, Policy Node, or Domain Information Producer                                                        |
| Consuming Logical Node Role | Audit Node, Provenance Node, Evidence Node, Oversight Node, or Replay Node                                                                               |
| Primary information         | Audit record, provenance record, <a href="#">lineage</a> record, or evidence-supporting record                                                           |
| Supporting information      | Input references, output references, producing <a href="#">Logical Node</a> , consuming <a href="#">Logical Node</a> , endpoint, rule version, timestamp |
| Traceability expectation    | Audit and provenance records trace to the related information, <a href="#">Logical Nodes</a> , endpoints, interactions, rules, and decisions.            |
| Evidence expectation        | Preserved audit and provenance records support review, reconstruction, replay, and defensibility.                                                        |

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