

# 8.13 FX Replay and Reconstruction Node Mapping

## [Go To Mapping from FX Logical Nodes to Implementation Artifacts](#)

The FX Replay and Reconstruction [Node](#) maps to the Phase 0 implementation artifact that supports replay or reconstruction from preserved records.

The implementation artifact performs the Replay and Reconstruction [Role](#). It consumes implementation representations of an FX Replay Request and relevant audit/provenance records, reconstructs selected information or lineage, and produces an implementation representation of an FX Replay Result.

**Table 8-11:** FX Replay and Reconstruction Node implementation mapping.

| Mapping Concern                       | Phase 0 Implementation Treatment                                                                                                                                                                         |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FX logical Node                       | FX Replay and Reconstruction Node                                                                                                                                                                        |
| Primary Node Role                     | Replay and Reconstruction Role                                                                                                                                                                           |
| Primary Runtime Plane                 | FX Logical Audit and Provenance Plane                                                                                                                                                                    |
| Supporting Runtime Planes             | FX Logical Control Plane; FX Logical Data Plane                                                                                                                                                          |
| Primary implementation responsibility | Replay or reconstruct selected FX information from preserved records.                                                                                                                                    |
| Primary DDS interactions              | Subscribe to the DDS Topic that realizes the FX Replay Request Endpoint; publish to the DDS Topic that realizes the FX Replay Result Endpoint.                                                           |
| Primary data artifacts                | <a href="#">IDL</a> and generated types representing the FX Replay Request and the FX Replay Result.                                                                                                     |
| Supporting artifacts                  | Replay helper module, reconstruction helper module, audit/provenance access helpers, logging helper, and traceability metadata.                                                                          |
| Traceability expectation              | Implementation artifact traces to the FX Replay and Reconstruction Node, Replay and Reconstruction Role, FX Replay Request Endpoint, FX Replay Result Endpoint, FX Replay Request, and FX Replay Result. |

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