

# 10.7 Cross-Plane Relationships in the FX Demo

[Go To FX Demo Runtime Plane Model](#)

Cross-plane relationships occur when an FX logical interaction in one [Runtime Plane](#) affects, references, constrains, or produces information in another [Runtime Plane](#).

The FX Demo Runtime Plane Model preserves separation among planes while supporting explicit cross-plane relationships. The FX Demo Logical Profile records those relationships so reviewers understand how operational coordination, FX domain information exchange, health reporting, release control, audit, provenance, replay, reconstruction, and [Evidence](#) support one another.

**Table 10-1:** Examples of cross-plane relationships in the FX Demo.

| Originating FX Runtime Plane                           | Related FX Runtime Plane                           | Example                                                                                                                                                             |
|--------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">Logical Health and Observability Plane</a> | <a href="#">Logical Control Plane</a>              | An <a href="#">FX Node Status</a> report showing <b>Degraded</b> triggers an <a href="#">FX Control Command</a> .                                                   |
| <a href="#">Logical Control Plane</a>                  | <a href="#">Logical Data Plane</a>                 | An <a href="#">FX Replay Request</a> causes selected FX Data Plane information to be republished or reconstructed.                                                  |
| <a href="#">Logical Data Plane</a>                     | <a href="#">Logical Policy and Release Plane</a>   | An <a href="#">FX Cash-Flow Obligation</a> requires release evaluation before external disclosure.                                                                  |
| <a href="#">Logical Policy and Release Plane</a>       | <a href="#">Logical Audit and Provenance Plane</a> | An <a href="#">FX Policy Decision</a> creates an <a href="#">FX Audit Record</a> and an <a href="#">FX Provenance Record</a> .                                      |
| <a href="#">Logical Data Plane</a>                     | <a href="#">Logical Audit and Provenance Plane</a> | An <a href="#">FX Validation Result</a> creates provenance linking the input transaction, validation rule version, producing <a href="#">Node</a> , and the output. |
| <a href="#">Logical Audit and Provenance Plane</a>     | <a href="#">Logical Data Plane</a>                 | An <a href="#">FX Replay Result</a> reconstructs selected FX domain information from preserved provenance and audit records.                                        |

Cross-plane relationships do not collapse the planes into one another. Each [Runtime Plane](#) retains its architectural purpose. The relationship identifies how one plane affects, constrains, records, or supports another.

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