

FX Runtime Plane Traceability

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Discussion

FX Runtime Plane Traceability relates an FX logical interaction or information exchange to the FX [Runtime Plane](#) that frames its architectural purpose.

FX Runtime Plane Traceability helps reviewers distinguish operational coordination, FX domain information exchange, health reporting, policy and release, audit and provenance, replay, reconstruction, and [Evidence](#) concerns. It also supports cross-plane review by identifying when one FX [Runtime Plane](#) affects, constrains, records, or produces information for another plane.

FX Runtime Plane Traceability preserves the separation of concerns even when a single FX logical interaction spans multiple planes.

Definition

Traceability relationship connecting FX logical interactions and information exchanges to their FX Runtime Plane classification.

Source

Specialisation of [Logical Runtime Plane Traceability](#) from Part 2, Section 12.6, Logical Runtime Plane Model from Part 2, Section 9, [Runtime Plane](#) from Part 1, Section 7.5, and [Traceability](#) from Part 1, Section 7.10; generalised from FX runtime-plane and cross-plane material in the original FX Demo Reference Architecture.

Note

FX Runtime Plane Traceability does not prescribe [DDS](#) partitions, topic namespaces, Kubernetes namespaces, network segments, security zones, or implementation groupings.

Example

An [FX Node Status](#) report traces to the [Logical Health and Observability Plane](#). A recovery command triggered by that status report traces to the [Logical Control Plane](#). The relationship between those interactions identifies the cross-plane trace.

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Last update: **2026/07/20 17:51**

