

3.5 Traceability to Part 3 FX Demo Logical Profile

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Part 3 defines the FX Demo Logical Profile. This section maps selected elements of the Part 3 FX logical profile to Phase 0 implementation artifacts.

Part 3 remains the authoritative source for FX logical [Nodes](#), logical [Node Roles](#), logical [Communication Endpoints](#), logical information structures, [Runtime Planes](#), interaction patterns, governance relationships, [traceability](#) relationships, and logical requirements. This part does not redefine those elements. It selects Phase 0 implementation technologies and implementation artifacts that realize them.

Table 3-5: Part 3 FX logical profile elements mapped by the Phase 0 Implementation Profile.

Part 3 FX logical profile element	Part 4: Phase 0 implementation treatment
FX logical Nodes	Mapped to selected implementation Nodes, modules, process entry points, or runtime participants.
FX logical Node Roles	Mapped to implementation responsibilities, modules, functions, classes, or service behaviors.
FX logical Communication Endpoints	Mapped to DDS Topics or other selected Phase 0 communication artifacts.
FX logical information structures	Mapped to IDL structures, generated types, and implementation data representations.
FX Runtime Planes	Mapped to implementation conventions, topic naming conventions, package groupings, logging categories, and operational conventions.
FX lifecycle states	Mapped to implementation-level state values, status messages, command acknowledgements, or recorded state transitions where Phase 0 requires them.
FX interaction patterns	Mapped to Phase 0 message flows, command flows, processing flows, scripts, or demonstration behaviors.
FX governance relationships	Mapped to versioning rules, compatibility rules, generation rules, repository rules, and review expectations.
FX traceability relationships	Mapped to traceability tables, artifact metadata, file headers, generated-file markings, and implementation documentation.
FX logical requirements	Mapped to implementation requirements and acceptance preconditions for later deployment and evidence planning.

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