

8.7 FX Contract State Node Mapping

Go To Mapping from FX Logical Nodes to Implementation Artifacts

The FX Contract State [Node](#) maps to the Phase 0 implementation artifact that establishes, updates, or reports FX Contract State from validated and semantically interpreted information.

The implementation artifact performs the Contract State Management [Role](#). It consumes applicable validation and semantic interpretation outputs, applies the Phase 0 contract state logic, produces an implementation representation of FX Contract State, and publishes that state through the [DDS Topic](#) that realizes the FX Contract State [Endpoint](#).

Table 8-5: FX Contract State Node implementation mapping.

Mapping Concern	Phase 0 Implementation Treatment
FX logical Node	FX Contract State Node
Primary Node Role	Contract State Management Role
Primary Runtime Plane	FX Logical Data Plane
Supporting Runtime Planes	FX Logical Audit and Provenance Plane
Primary implementation responsibility	Establish, update, or report FX Contract State.
Primary DDS interactions	Subscribe to the required validation and semantic interpretation DDS Topics; publish to the DDS Topic that realizes the FX Contract State Endpoint.
Primary data artifacts	IDL and generated types representing the FX Validation Result, the FX Semantic Assertion, and FX Contract State.
Supporting artifacts	Contract state helper module, state rule configuration, logging helper, and traceability metadata.
Traceability expectation	Implementation artifact traces to the FX Contract State Node, Contract State Management Role, FX Contract State Endpoint, and FX Contract State.

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