

Implementation Mapping

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Discussion

An Implementation Mapping specifies how a platform-independent concept, information structure, relationship, constraint or behavior is represented using a selected implementation technology.

The mapping may define implementation names, data types, field representations, cardinalities, encodings, precision rules, default values, validation rules, communication constructs, persistence constructs and programming-language bindings.

An Implementation Mapping may also identify implementation-specific restrictions, extensions, or information loss. The mapping retains a reference to the applicable platform-independent definition so an engineer or automated tool can determine the implementation artifact's source meaning.

Definition

specification of how a platform-independent concept, information structure, relationship, constraint or behavior is represented using a selected implementation technology

Source

DIDO Solutions, Inc.

Note

An Implementation Mapping differs from a [Semantic Alignment](#). A Semantic Alignment relates meanings across semantic contexts. An Implementation Mapping represents an authoritative meaning using a selected technology.

An Implementation Mapping contributes to a [Platform Specific Model \(PSM\)](#). The applicable platform-independent definition remains authoritative for domain meaning unless the governing specification explicitly states otherwise.

An Implementation Mapping should identify:

- The source concept or information structure
- The source model and version
- The selected implementation technology
- The target artifact
- The mapping rules
- Applicable restrictions or extensions

- Validation and compatibility rules
- Known information loss

Example

The FX Information Model defines a platform-independent `FXSwap` information structure. An FX Demo implementation profile provides an Implementation Mapping from that structure to an IDL structure carried by a DDS Topic. A separate Implementation Mapping may represent the same platform-independent structure using JSON Schema.

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