

10.4 Logical Element / PIM to Implementation Artifact / PSM

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A Logical Element / [PIM](#) traces to an Implementation Artifact / [PSM](#) when an implementation profile maps the [Platform Independent Model \(PIM\)](#) to selected technologies.

For example, a logical [Communication Endpoint](#) may map to a DDS Topic in a DDS-based implementation profile. A logical [Data Structure Definition](#) may map to an IDL structure. A logical [Node](#) may map to a Python process packaged as an OCI-compatible container image.

This mapping realizes the logical model for a selected implementation context. It does not redefine the logical element or the conceptual element behind it.

Examples include:

Table 10.4-1: Examples of logical elements traced to implementation artifacts

Logical Element / PIM	Implementation Artifact / PSM
Logical Node	Python process, service process, or containerised executable
Logical Communication Endpoint	DDS Topic, API endpoint, message queue, event stream, or file exchange point
Logical Data Structure Definition	IDL structure, JSON Schema, XML Schema, SysML block, or generated language type
Logical Runtime Plane	DDS topic namespace, DDS partition, topic family, or implementation grouping
Logical Evidence class	Test output, captured message, provenance record, audit record, or configured evidence package
Logical Traceability relationship	Trace matrix entry, metadata link, configuration reference, model relationship, or generated report

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