

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

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