

P1-REQ-13-9-005

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Statement

The [Logical Architecture](#) / [PIM](#) SHALL NOT bind logical elements to [DDS](#), [IDL](#), [Python](#), [Kubernetes](#), [K3s](#), [Docker](#), [RTI Connex DDS](#), [Crucible](#), or other implementation-specific mechanisms.

Source

Part 1, Section 13.9: Relationship to Logical Architecture / PIM Requirements.

Rationale

DDS, IDL, Python, Kubernetes, K3s, Docker, RTI Connex DDS, Crucible, and similar mechanisms belong to implementation or deployment concerns. The Logical Architecture / PIM remains independent of these mechanisms so that later implementation profiles select and map technologies without changing logical meaning.

This requirement prevents implementation selections from entering the Logical Architecture / PIM as logical definitions.

Applies To

This requirement applies to Logical Architecture / PIM elements, relationships, behaviors, and constraints.

It applies specifically to avoiding binding to:

- [DDS](#)
- [IDL](#)
- [Python](#)
- [Kubernetes](#)
- [K3s](#)
- [Docker](#)
- [RTI Connex DDS](#)
- [Crucible](#)
- Other implementation-specific mechanisms

Verification

Verification SHALL confirm that the Logical Architecture / PIM does not bind logical elements to DDS, IDL, Python, Kubernetes, K3s, Docker, RTI Connex DDS, Crucible, or other implementation-specific mechanisms.

Verification activities include review checks confirming that:

- Logical elements avoid implementation-specific bindings
- PIM elements avoid platform-specific technology dependencies
- Implementation technologies appear only in implementation profiles
- Technology mappings preserve logical meaning without redefining it

Traceability

Related source section:

- [13.9 Relationship to Logical Architecture / PIM Requirements](#)

Related requirement identifiers:

- [P1-REQ-13-9-004](#)
- [P1-REQ-13-2-003](#)
- [P1-REQ-13-5-008](#)
- [P1-REQ-13-7-003](#)

Status

Draft

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