

P1-REQ-13-5-008

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Statement

The Conceptual Architecture SHALL NOT treat a [Runtime Plane](#) as a DDS Domain, DDS Topic, DDS partition, Kubernetes namespace, network segment, container group, security zone, or deployment environment.

Source

Part 1, Section 13.5: Runtime Plane Requirements.

Rationale

A Runtime Plane expresses architectural purpose. DDS Domains, DDS Topics, DDS partitions, Kubernetes namespaces, network segments, container groups, security zones, and deployment environments express implementation or deployment concerns.

Treating a Runtime Plane as one of these mechanisms collapses conceptual runtime purpose into a selected technical or operational arrangement.

Applies To

This requirement applies to all Runtime Plane references within the Conceptual Architecture.

It applies specifically to separation between Runtime Planes and:

- DDS Domains
- DDS Topics
- DDS partitions
- Kubernetes namespaces
- Network segments
- Container groups
- Security zones
- Deployment environments

Verification

Verification SHALL confirm that the Conceptual Architecture does not treat a Runtime Plane as an implementation or deployment mechanism.

Verification activities include review checks confirming that:

- Runtime Plane references identify architectural purpose
- DDS constructs do not replace Runtime Plane concepts
- Kubernetes constructs do not replace Runtime Plane concepts
- Network and security boundaries do not replace Runtime Plane concepts
- Deployment environments do not replace Runtime Plane concepts

Traceability

Related source section:

- [13.5 Runtime Plane Requirements](#)

Related requirement identifiers:

- [p1-req-13-5-001](#)
- [p1-req-13-5-007](#)
- [p1-req-13-2-005](#)

Status

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