

10.5 Implementation Artifact / PSM to Deployment Artifact

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An Implementation Artifact / [PSM](#) traces to a Deployment Artifact when a deployment profile describes how the implementation runs in a concrete environment.

For example, a container image may trace to a Kubernetes Deployment, Pod, or Helm chart. A DDS QoS profile may trace to a mounted configuration file or ConfigMap. A generated IDL binding may trace to a deployed service image using that binding.

This relationship supports operational review. It allows a reviewer to identify which deployed artifact executed, configured, exposed, or controlled a given implementation artifact.

Examples include:

Table 10.5-1: Examples of implementation artifacts traced to deployment artifacts

Implementation Artifact / PSM	Deployment Artifact
OCI-compatible container image	Kubernetes Deployment, Pod, K3s workload, or local container runtime configuration
DDS Topic configuration	DDS XML configuration, mounted configuration file, or runtime topic registration
USER_QOS_PROFILES.xml	ConfigMap, mounted file, deployment package, or runtime configuration volume
Python Node implementation	Container entry point, process command, service manifest, or pod specification
Generated language binding	Built package, container layer, deployed runtime dependency, or generated source directory
Implementation configuration file	Environment-specific configuration file, ConfigMap, Secret, or mounted volume

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