

Node Implementation

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Discussion

A Node Implementation realizes a [Node Definition](#) through executable and supporting artifacts.

The artifacts include executable code, generated code, libraries, container images, machine images, scripts, schemas, interface definitions, deployment descriptors, and other implementation content required to instantiate the [Node](#).

A Node Implementation remains distinct from a [Node Configuration](#). The Node Implementation supplies the implemented capabilities and behavior. The Node Configuration supplies the values, settings, bindings, and policies applied to a particular Node instance.

A Node Implementation also remains distinct from a Node instance. The Node Implementation constitutes reusable implementation content. A Node instance constitutes an individually identifiable realization produced from the implementation and its applied configuration within a deployment or [Test Environment](#).

Definition

realization of a Node Definition as executable and supporting artifacts

Source

DIDO Solutions project definition.

Note

One Node Definition has multiple Node Implementations when different technologies, platforms, products, programming languages, or deployment mechanisms realize the same specified characteristics.

One Node Implementation produces multiple Node instances through separate deployment and configuration activities.

A Node Implementation identifies its version, constituent artifacts, dependencies, build provenance, integrity information, applicable Node Definition, and conformance status.

A change to executable or supporting implementation content produces a distinguishable Node Implementation revision. A change limited to Configuration Values produces a Node Configuration

revision rather than a Node Implementation revision.

Example

A container image containing a market-data publisher executable, its required libraries, interface definitions, startup scripts, and deployment descriptors constitutes a Node Implementation. Applying endpoint addresses, credentials, topic names, and runtime limits creates a Node Configuration for a particular Node instance.

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