

Node Configuration

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Discussion

A Node Configuration establishes how a [Node](#) operates within a particular [Environment](#) or execution context.

The Node Configuration identifies the applicable Configuration Parameters, assigns or references their [Configuration Values](#), identifies their [Configuration Sources](#), establishes required Node Bindings, and specifies the rules governing value resolution and application.

A Node Configuration remains distinct from a [Node Definition](#) and a [Node Implementation](#). The Node Definition specifies the required characteristics and behaviour of the Node. The Node Implementation realizes those characteristics and behaviour. The Node Configuration assigns the settings and relationships applicable to a particular Node instance.

A Node Configuration also remains distinct from a [Test Input](#). The Node Configuration establishes the operating conditions of the Node. The Test Input supplies data or stimuli consumed during [Test Execution](#).

Definition

controlled set of Configuration Parameters, Configuration Values, Node Bindings, and associated rules assigned to a Node

Source

DIDO Solutions project definition.

Note

A Node Configuration includes identifiers, versions, sources, constraints, value-resolution rules, application rules, security controls, and other information required to reproduce and validate the configured Node.

A Node Configuration associates protected values with a [Credential](#), [Cryptographic Material](#), or other applicable information classification.

A material change to a Node Configuration produces a distinguishable configuration revision.

Example

A Node Configuration for a [DDS](#) publishing Node identifies the DDS domain, topic, partition, Quality of Service profile, network interface, security Credential, logging level, and destination bindings assigned to the Node.

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