

# Data Source

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## Discussion

A Data Source identifies an origin from which data is obtained.

A Data Source may be a [Node](#), system, service, datastore, sensor, process, simulation, recorded dataset, publisher, or other identifiable origin of data.

The concept identifies the origin of the data independently of the communication mechanism used to obtain the data. For example, a [DDS](#) DataWriter may provide access to data originating from a Data Source without becoming the semantic definition of that Data Source.

A Data Source may be subject to eligibility, authority, provenance, security, or other constraints established by the applicable architecture or [Configuration](#).

## Definition

*an identifiable origin from which data is obtained*

## Source

- [\[DTE1\] U.S. Patent Application US20220237111A1](#), virtual and physical Twin Node concepts and data used during testing and comparison
- [\[DTE2\] Non-Traditional BAA Submission](#), Digital Twin concepts and Twin Nodes Selection
- [\[DTE9\] Distributed Immutable Data Object Reference Architecture \(DIDO-RA\)](#), DDS publish-subscribe and distributed data concepts
- DIDO-TE normalization of the source concepts

## Note

Identification of a Data Source does not establish permission to use data from that source.

Eligibility, selection, authority, and trust are separate concerns established by the applicable governance, Configuration, or Test Definition.

A communication endpoint, network address, DDS DataWriter, Topic, file, or database connection may identify an implementation mechanism associated with a Data Source without defining the Data Source itself.

## Example

A physical sensor attached to a real-world Node is a Data Source for temperature measurements.

A simulation representing the same Node is a different Data Source even when both sources publish compatible temperature data through the same DDS Topic.

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