

Network Topology

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Discussion

A network consists of communicating entities and the relationships through which those entities exchange information.

The topology describes the arrangement of those entities and communication relationships independently of the particular technologies used to realize them.

A Network Topology may describe physical, logical, virtual, or other communication relationships. It does not, by itself, prescribe a particular networking technology, routing mechanism, communication protocol, middleware product, or deployment environment.

A [Distributed Network Topology](#) is a specialization of Network Topology in which multiple interconnected [Nodes](#) participate in distributed communication and coordination.

Definition

the arrangement of communicating entities and the communication relationships among those entities

Source

DIDO Solutions architectural definition derived from distributed-system and networking concepts used by the DIDO Reference Architecture and DIDO-TE.

Note

Network Topology describes communication structure rather than the behavior or implementation of the communicating entities.

A Network Topology may be represented independently of the physical network that realizes it.

Example

A test environment may define a Network Topology in which Node A communicates with Node B, and Node B communicates with Node C, without requiring Node A to communicate directly with Node C.

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