

2.2.2.1.2 Transport

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A cornerstone of DIDO networks is the transport component, enabling nodes to communicate with a very high degree of trust and reliability. Although it is possible to create a network of nodes that do not use [Internet Protocol \(IP\)](#), the breadth and acceptance of such an endeavor is questionable.

DIDO relies on the [transport layer](#) as defined by the [Open Systems Interconnection \(OSI\) Model](#). The transport layer is the layer in the open system interconnection (OSI) model responsible for end-to-end communication over a network. It provides logical communication between [application](#) processes running on different hosts within a layered architecture of [protocols](#) and other network components. The transport layer is also responsible for the management of error correction, providing quality and reliability to the end user. This layer enables the host to send and receive error corrected data, packets or messages over a network and is the network component that allows multiplexing.¹⁾

Standards

Technical Standards

- [RFC0147 - The Definition of a Socket](#)
- [RFC0791 - Internet Protocol \(IPv4\)](#)
- [RFC6101 - The Secure Sockets Layer \(SSL\) Protocol Version 3.0](#)
- [RFC2246 - The TLS Protocol](#)
- [RFC2460 - Internet Protocol, Version 6 \(IPv6\) Specification](#)
- [OMG: DDS Interoperability Wire Protocol \(DDSI-RTSPS\)](#)

de facto Standards

- [Google: Protocol Buffers](#)
- [ZeroMQ Message Transport Protocol \(ZMTP\)](#)

Tools

- None at this time

¹⁾

Techopedia, "Transport Layer," 30 November 2017. <https://www.techopedia.com/definition/9760/transport-layer>

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