

# Gateway

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A **Gateway** normally works at the [Transport](#) and [Session Layers](#) of the [osi](#). At the Transport layer and above, there are numerous protocols and standards from different vendors; gateways are used to deal with them. Gateways provide translation between networking technologies such as Open System Interconnection (OSI) and [Transmission Control Protocol/Internet Protocol](#) (TCP/IP). Because of this, gateways connect two or more autonomous networks, each with its own routing algorithms, protocols, [topology](#), domain name service, and network administration procedures and policies.

Gateways perform all of the functions of [routers](#) and more. In fact, a router with added translation functionality is a gateway. The function that does the translation between different network technologies is called a protocol converter.

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