

Advanced Message Queuing Protocol (AMQP)

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The **Advanced Message Queuing Protocol (AMQP)** is an open standard application layer protocol for [Message-Oriented Middleware \(MOM\)](#). The defining features of **AMQP** are message orientation, queuing, routing (including [Peer-to-Peer \(P2P\)](#) and [Publish-Subscribe](#)), reliability and security.

AMQP mandates the behavior of the messaging provider and client to the extent that implementations from different vendors are interoperable, in the same way as SMTP, [Hypertext Transfer Protocol \(HTTP\)](#), [File Transfer Protocol \(FTP\)](#), etc. have created interoperable systems. Previous standardization of [Middleware](#) have happened at the [Application Programming Interface \(API\)](#) level (e.g. JMS) and were focused on standardizing programmer interaction with different middleware implementations, rather than on providing interoperability between multiple implementations. Unlike JMS, which defines an API and a set of behaviors that a messaging implementation must provide, **AMQP** is a [Wire Protocol](#). A wire-level protocol is a description of the format of the data that is sent across the network as a stream of bytes. Consequently, any tool that can create and interpret messages that conform to this data format can interoperate with any other compliant tool irrespective of implementation language.

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