

	AMQP	CoAP	DDS	RTI DDS	MQTT	Zero MQ
<b>Architecture</b>	Broker with Queues	Restful Client / Server model with support for Multicast	Connection Architecture not defined by standard	Peer to Peer, no daemons	Broker	Peer to Peer for limited scale project, broker needed for higher scale projects
<b>Pattern: Publish/Subscribe</b>	Yes	Partial, using Observe mode	Yes	Yes	Yes	Yes
<b>Pattern: Request/Reply</b>	Yes, through the use of 2 queues	Yes	RPC over DDS	Yes	No	Yes
<b>Pattern: Queuing</b>	Yes	No	No	Yes, with Queue Service	No	Yes
<b>One to Many</b>	Yes	Yes	Yes	Yes	Yes	Yes
<b>Many to One</b>	Yes	Yes	Yes	Yes	Yes	Yes
<b>Payload type</b>	Opaque	JSON, XML, CBOR, EXI, custom	Strongly defined types, Opaque, Mixed	Strongly defined types, Opaque, Mixed	Opaque	Opaque
<b>Filtering</b>	Queue Filtering	HTTP URI scheme for requests	Topic Filtering, Content Filtering, Time Based Filtering	Topic Filtering, Content Filtering, Time Based Filtering, Supports Writer side filtering	Topic based wildcard scheme	Filtering on message envelope fields only
<b>Quality of Service</b>	Limited to High Availability and Redundancy of Brokers	Limited	Extensive: Reliability, History, Durability, Lifespan, Liveliness, etc	Extensive: Reliability, History, Durability, Lifespan, Liveliness, etc	Limited	None
<b>Transports</b>	TCP	UDP, DTLS	Not Specified	UDP, TCP, TLS, DTLS, Shared Memory, Custom	TCP	TCP, TIPC, multicast, Shared memory
<b>Routing / Bridging capabilities</b>	Routing through exchanges	Via Proxy to HTTP	None	Routing Service	Between broker routing	Brokers used for routing
<b>Security</b>	TLS / SSL Connections	DTLS	DDS Secure specification	DDS Secure Implementation with Authentication, Access Control and Cryptography on a per Topic basis	TLS / SSL Connections	SASL Authentication