

7.13 Communication Pattern Independence

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The Logical Communication Model remains independent of the implementation of communication patterns.

The Logical Architecture uses [Communication Roles](#) to describe participation in information exchange. Implementation profiles select communication patterns and technologies according to the implementation context.

The same logical interaction can map to different implementation mechanisms. A logical publication can map to DDS, an event stream, a message queue, a file exchange, or another mechanism. A logical request can map to REST, RPC, a message exchange, a service call, or another mechanism. A logical command can map to a control topic, an API call, a queue message, an orchestration action, or another mechanism.

Communication Pattern Independence protects the Logical Architecture / PIM from technology lock-in. It also allows later profiles to compare implementation alternatives while preserving the same logical relationships.

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