

IEC 62541-14 OPC Unified Architecture - Part 14: PubSub

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Table 1: Data sheet for OPC Unified Architecture - Part 14: PubSub

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Abstract

IEC 62541-14:2020 defines the OPC Unified Architecture (OPC UA) PubSub communication model. It defines an OPC UA publish subscribe pattern which complements the client server pattern defined by the Services in [IEC 62541-004 OPC Unified Architecture - Part 4: Services](#). [IEC 62541-001 OPC Unified Architecture - Part 1: Overview and concepts](#) gives an overview of the two models and their distinct uses. PubSub allows the distribution of data and events from an OPC UA information source to interested observers inside a device network as well as in IT and analytics cloud systems.

This document consists of

- a general introduction of the [Publish-Subscribe \(PubSub\)](#) concepts,
- a definition of the PubSub configuration parameters,
- mapping of PubSub concepts and configuration parameters to messages and transport protocols, and
- a PubSub configuration model.

Not all OPC UA Applications will need to implement all defined message and transport protocol mappings. [IEC 62541-007 OPC Unified Architecture - Part 7: Profiles](#) defines the Profile that dictates which mappings need to be implemented in order to be compliant with a particular Profile.

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