

IEC 62541-014 OPC Unified Architecture - Part 14: PubSub

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

Title	OPC Unified Architecture - Part 14: PubSub
Version	2020
Document Number	62541-14
Release Date	2020
Reference	https://webstore.iec.ch/publication/61108

Note: The following is an excerpt from the official IEC catalog. It is provided here as a convenience and is not authoritative. Refer to the original document as the authoritative reference.

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.

See also:

- [IEC 62541-001 OPC Unified Architecture - Part 1: Overview and concepts](#)
- [IEC 62541-002 OPC Unified Architecture - Part 2: Security Model](#)
- [IEC 62541-003 OPC Unified Architecture - Part 3: Address Space Model](#)
- [IEC 62541-004 OPC Unified Architecture - Part 4: Services](#)

- [IEC 62541-005 OPC Unified Architecture - Part 5: Information Model](#)
- [IEC 62541-006 OPC Unified Architecture - Part 6: Mappings](#)
- [IEC 62541-007 OPC Unified Architecture - Part 7: Profiles](#)
- [IEC 62541-008 OPC Unified Architecture - Part 8: Data Access](#)
- [IEC 62541-009 OPC Unified Architecture - Part 9: Alarms and Conditions](#)
- [IEC 62541-010 OPC Unified Architecture - Part 10: Programs](#)
- [IEC 62541-011 OPC Unified Architecture - Part 11: Historical Access](#)
- [IEC 62541-012 OPC Unified Architecture - Part 12: Discovery and global](#)
- [IEC 62541-013 OPC Unified Architecture - Part 13: Aggregates](#)
- [IEC 62541-100 OPC Unified Architecture - Part 100: Device Interface](#)

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Last update: **2022/01/14 16:14**

