

IEC 62541-006 OPC Unified Architecture - Part 6: Mappings

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Table 1: Data sheet for OPC Unified Architecture - Part 6: Mappings

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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 62541-6:2020 specifies the OPC Unified Architecture (OPC UA) mapping between the security model described in [IEC 62541-002 OPC Unified Architecture - Part 2: Security Model](#), the abstract service definitions specified in [IEC 62541-004 OPC Unified Architecture - Part 4: Services](#), the data structures defined in [IEC 62541-005 OPC Unified Architecture - Part 5: Information Model](#) and the physical network protocols that can be used to implement the OPC UA specification. This third edition cancels and replaces the second edition published in 2015. This edition constitutes a technical revision. This edition includes the following significant technical changes with respect to the previous edition:

a) Encodings:

- added JSON encoding for PubSub (non-reversible);
- added JSON encoding for Client/Server (reversible);
- added support for optional fields in structures;
- added support for Unions.

b) Transport mappings:

- added **WebSocket secure connection – WSS**;
- added support for reverse connectivity;
- added support for session-less service invocation in HTTPS.

c) Deprecated Transport (missing support on most platforms):

- SOAP/HTTP with **WS-SecureConversation** (all encodings).

d) Added mapping for JSON Web Token.

e) Added support for Unions to NodeSet Schema.

- f) Added batch operations to add/delete nodes to/from NodeSet Schema.
- g) Added support for multi-dimensional arrays outside of Variants.
- h) Added binary representation for Decimal data types.
- i) Added mapping for an OAuth2 Authorization Framework.

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 62541-007 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 62541-014 OPC Unified Architecture - Part 14: PubSub](#)
- [IEC 62541-100 OPC Unified Architecture - Part 100: Device Interface](#)

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