

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**OPC unified architecture –  
Part 6: Mappings**

**Architecture unifiée OPC –  
Partie 6: Mappings**



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# INTERNATIONAL ELECTROTECHNICAL COMMISSION

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## OPC UNIFIED ARCHITECTURE –

### Part 6: Mappings

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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.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
65E/718/FDIS	65E/734/RVD

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The *italicized terms and names* are also, with a few exceptions, written in camel-case (the practice of writing compound words or phrases in which the elements are joined without spaces, with each element's initial letter capitalized within the compound). For example the defined term is *AddressSpace* instead of Address Space. This makes it easier to understand that there is a single definition for *AddressSpace*, not separate definitions for Address and Space.

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