

INTERNATIONAL STANDARD

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**OPC unified architecture –
Part 3: Address Space Model**

**Architecture unifiée OPC –
Partie 3: Modèle de l'Espace d'Adressage**



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IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
Fax: +41 22 919 03 00
info@iec.ch
www.iec.ch

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OPC UNIFIED ARCHITECTURE –

Part 3: Address Space Model

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- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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This second edition cancels and replaces the first edition published in 2010. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) Added rules for subtyping enumerations in 8.14 (issue number 0606);
- b) Added *Property EnumValues* in 5.8.3 to support integer representation of enumerations that are not zero-based or have gaps (issue number 0876);
- c) Added *Property ValueAsText* in 5.6.2 providing a localized text representation for enumeration values (issue number 0951);

- d) Added *EventType SystemStatusChangeEvent* in 9.31 that can be used to indicate connection to sub system is lost (issue number 1255);
- e) Added *Properties MaxArrayLength* and *MaxStringLength* in 5.6.2 to identify the maximum string length and array length for clients writing values (issue number 1547);
- f) Removed the concept of *ModelParent* from document as it is not that useful. The *NodeId* of the *ReferenceType* will be kept not breaking existing applications (issue number 1554).
- g) Added *EventType ProgressEventType* in 9.4 identifying the progress of an operation such as a service call (issue number 1557);
- h) Stated in 8.38 that it is allowed to use TAI in all places where UTC time is used to avoid problems with leap seconds (issue number 1563);
- i) Added *Property EngineeringUnits* in 5.6.2 as used in IEC 62541-8 (issue number 1749);
- j) Added *ModellingRules OptionalPlaceholder* and *MandatoryPlaceholder* in 6.4.4.5.5 and 6.4.4.5.6 (issue number 1804).

The text of this standard is based on the following documents:

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Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

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