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OPC Unified Architecture – Del 7: Profiler

*OPC unified architecture –
Part 7: Profiles*

Som svensk standard gäller europastandarden EN 62541-7:2015. Den svenska standarden innehåller den officiella engelska språkversionen av EN 62541-7:2015.

Nationellt förord

Europastandarden EN 62541-7:2015

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Tidigare fastställd svensk standard SS-EN 62541-7, utgåva 1, 2013, gäller ej fr o m 2018-04-29.

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EUROPEAN STANDARD

EN 62541-7

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

OPC unified architecture - Part 7: Profiles (IEC 62541-7:2015)

Architecture unifiée OPC - Partie 7: Profils
(IEC 62541-7:2015)

OPC Unified Architecture - Teil 7: Profile
(IEC 62541-7:2015)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 65E/378/CDV, future edition 2 of IEC 62541-7, prepared by SC 65E "Devices and integration in enterprise systems", of IEC/TC 65 "Industrial-process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62541-7:2015.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2016-01-29
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-04-29

This document supersedes EN 62541-7:2012.

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This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

Endorsement notice

The text of the International Standard IEC 62541-7:2015 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC/TR 62541-1	-	OPC unified architecture - Part 1: Overview and concepts	CLC/TR 62541-1	-
IEC/TR 62541-2	-	OPC unified architecture - Part 2: Security model	CLC/TR 62541-2	-
IEC 62541-3	-	OPC unified architecture - Part 3: Address Space Model	EN 62541-3	-
IEC 62541-4	-	OPC Unified Architecture - Part 4: Services	EN 62541-4	-
IEC 62541-5	-	OPC unified architecture - Part 5: Information Model	EN 62541-5	-
IEC 62541-6	-	OPC unified architecture - Part 6: Mappings	EN 62541-6	-
IEC 62541-8	-	OPC Unified Architecture - Part 8: Data Access	EN 62541-8	-
IEC 62541-9	-	OPC unified architecture - Part 9: Alarms and conditions	EN 62541-9	-
IEC 62541-11	-	OPC unified architecture - Part 11: Historical Access	EN 62541-11	-
IEC 62541-13	-	OPC unified architecture - Part 13: Aggregates	EN 62541-13	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

OPC UNIFIED ARCHITECTURE –

Part 7: Profiles

FOREWORD

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International Standard IEC 62541-7 has been prepared by subcommittee 65E: Devices and integration in enterprise systems, of IEC technical committee 65: Industrial-process measurement, control and automation.

This second edition cancels and replaces the first edition published in 2012. This edition constitutes a technical revision.

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

- a) Added a large number of new Facets to cover additional functional areas of OPC UA. Most significantly:
 - Facets for Historical Access;
 - Facets for Aggregates;
 - Facets for HTTPs

- New Security Facets
- New User Token Facet that supports anonymous access
- Best Practice Facets,

b) New Security Policy for asymmetric key length > 2048

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

CDV	Report on voting
65E/378/CDV	65E/406/RVC

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of the IEC 62541 series, published under the general title *OPC Unified Architecture*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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OPC UNIFIED ARCHITECTURE –

Part 7: Profiles

1 Scope

This part of IEC 62541 describes the OPC Unified Architecture (OPC UA) *Profiles*. The *Profiles* in this document are used to segregate features with regard to testing of OPC UA products and the nature of the testing (tool based or lab based). This includes the testing performed by the OPC Foundation provided OPC UA CTT (a self-test tool) and by the OPC Foundation provided Independent certification test labs. This could equally as well refer to test tools provided by another organization or a test lab provided by another organization. What is important is the concept of automated tool based testing versus lab based testing. The scope of this standard includes defining functionality that can only be tested in a lab and defining the grouping of functionality that is to be used when testing OPC UA products either in a lab or using automated tools. The definition of actual *TestCases* is not within the scope of this document, but the general categories of *TestCases* are within the scope of this document.

Most OPC UA applications will conform to several, but not all of, the *Profiles*.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC TR 62541-1, *OPC unified architecture – Part 1: Overview and concepts*

IEC TR 62541-2, *OPC unified architecture – Part 2: Security model*

IEC 62541-3, *OPC unified architecture – Part 3: Address space model*

IEC 62541-4, *OPC unified architecture – Part 4: Services*

IEC 62541-5, *OPC unified architecture – Part 5: Information model*

IEC 62541-6, *OPC unified architecture – Part 6: Mappings*

IEC 62541-8, *OPC unified architecture – Part 8: Data access*

IEC 62541-9, *OPC unified architecture – Part 9: Alarms and conditions*

IEC 62541-11¹, *OPC unified architecture – Part 11: Historical access*

IEC 62541-13¹, *OPC unified architecture – Part 13: Aggregates*

¹ To be published.