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Standards

Irish Standard
I.S. EN 62361-2:2013

Power systems management and associated information exchange - Interoperability in the long term -- Part 2: End to end quality codes for supervisory control and data acquisition (SCADA)

I.S. EN 62361-2:2013

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**Power systems management and associated information exchange -
Interoperability in the long term -
Part 2: End to end quality codes for supervisory control and data
acquisition (SCADA)
(IEC 62361-2:2013)**

Gestion des systèmes de puissance et
échanges d'informations associés -
Interopérabilité à long terme -
Partie 2: Codes de qualité de bout en bout
pour le contrôle de supervision et
acquisition de données (SCADA)
(CEI 62361-2:2013)

Angleichung der Codes für die
Datenqualität innerhalb des TC 57 -
Allgemeine Liste der Codes für die
Datenqualität
(IEC 62361-2:2013)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 57/1374/FDIS, future edition 1 of IEC 62361-2, prepared by IEC/TC 57, "Power systems management and associated information exchange" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62361-2:2013.

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) 2014-07-30
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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60870-5	Series	Telecontrol equipment and systems - Part 5: Transmission protocols	EN 60870-5	Series
IEC 60870-6	Series	Telecontrol equipment and systems	EN 60870-6	Series
IEC 61850	Series	Communication networks and systems in substations	EN 61850	Series
IEC 61850-3	-	Communication networks and systems for power utility automation - Part 3: General requirements	FprEN 61850-3 ¹⁾	-
IEC 61850-7-2	2010	Communication networks and systems for power utility automation - Part 7-2: Basic information and communication structure - Abstract communication service interface (ACSI)	EN 61850-7-2	2010
IEC 61850-7-3	-	Communication networks and systems for power utility automation - Part 7-3: Basic communication structure - Common data classes	EN 61850-7-3	-
IEC 61970	Series	Energy management system application program interface (EMS-API)	EN 61970	Series
IEC 61970-301	-	Energy management system application program interface (EMS-API) - Part 301: Common information model (CIM) base	FprEN 61970-301 ¹⁾	-
ISO 8601	2004	Data elements and interchange formats - Information interchange - Representation of dates and times	-	-

DAIS Data Access formal/05-06-01; www.omg.com

OPC Data Access version 2.03; www.opcfoundation.org.

OPC UA Part 8 -Data Access RC 1.01.10 Specification.doc

¹⁾ At draft stage.

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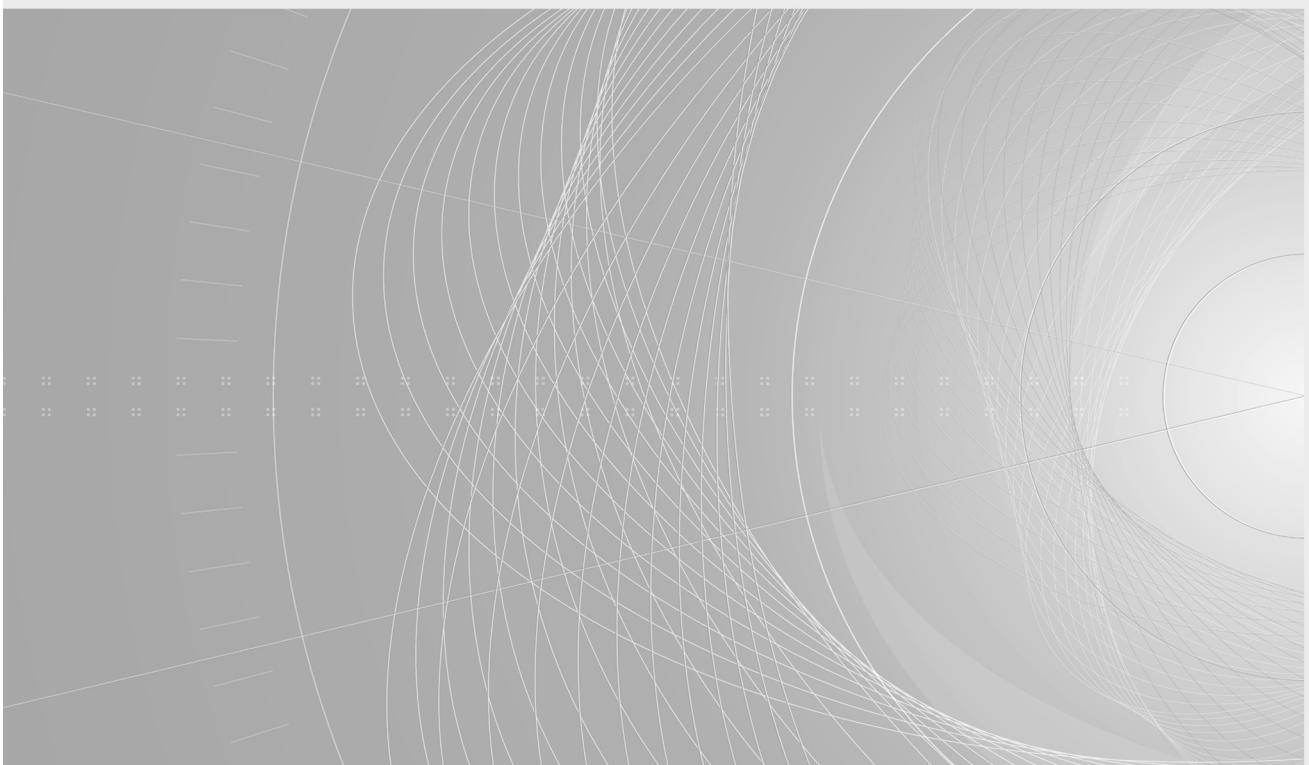
INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Power systems management and associated information exchange –
Interoperability in the long term –
Part 2: End to end quality codes for supervisory control and data acquisition
(SCADA)**

**Gestion des systèmes de puissance et échanges d'informations associés –
Interopérabilité à long terme –
Partie 2: Codes de qualité de bout en bout pour le contrôle de supervision et
acquisition de données (SCADA)**





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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**POWER SYSTEMS MANAGEMENT
AND ASSOCIATED INFORMATION EXCHANGE –
INTEROPERABILITY IN THE LONG TERM –**
**Part 2: End to end quality codes for supervisory control
and data acquisition (SCADA)**

FOREWORD

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International Standard IEC 62361-2 has been prepared by IEC technical committee 57: Power systems management and associated information exchange.

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

FDIS	Report on voting
57/1374/FDIS	57/1390/RVD

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.

In this document, words printed in all CAPITALS or SMALL CAPITALS represent specific quality bits or codes.

A list of all the parts in the IEC 62361 series, published under the general title *Power systems management and associated information exchange – Interoperability in the long term*, 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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INTRODUCTION

The scope of IEC 62361-2 is to create a common list of SCADA quality codes for reference by other standards to avoid embedding quality code lists in other standards.

POWER SYSTEMS MANAGEMENT AND ASSOCIATED INFORMATION EXCHANGE – INTEROPERABILITY IN THE LONG TERM –

Part 2: End to end quality codes for supervisory control and data acquisition (SCADA)

1 Scope

This part of IEC 62361 documents the quality codes used by existing IEC standards related to supervisory control and data acquisition (SCADA) in the field of power systems management. Meter reading quality coding is not considered to be in the scope of this version of the document. It determines and documents mapping between these standards. Eventual loss of quality information that might occur in mapping is documented. A cohesive and common list of quality codes with semantics is defined. The identified standards to be dealt with in this document are: IEC 60870-5, IEC 60870-6 TASE.2, IEC 61850, IEC 61970, DAIS DA, OPC DA and OPC UA.

Data covered by this part of IEC 62361 is measurements provided by the following links, applications or interfaces:

- RTU, 61850 or OPC DA links to SCADA
- Validation added by state estimation
- TASE.2 (ICCP) or TASE.1 (ELCOM) links between control centers
- Servers, e.g. SCADA, that provide OPC or DAIS DA-data.

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 60870-5 (all parts), *Telecontrol equipment and systems – Part 5: Transmission protocols*

IEC 60870-6 (all parts), *Telecontrol equipment and systems – Part 6: Telecontrol protocols compatible with ISO standards and ITU-T recommendations*

IEC 61850 (all parts), *Communication networks and systems for power utility automation*

IEC 61850-3, *Communication networks and systems for power utility automation – Part 3: General requirements*

IEC 61850-7-2:2010, *Communication networks and systems for power utility automation – Part 7-2: Basic information and communication structure – Abstract communication service interface (ACSI)*

IEC 61850-7-3, *Communication networks and systems for power utility automation – Part 7-3: Basic communication structure – Common data classes*

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