



BSI Standards Publication

Standardized product ontology register and transfer by spreadsheets

Part 2: Application guide for use with the IEC common data dictionary (CDD)

National foreword

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**Standardized product ontology register and transfer by spreadsheets –
Part 2: Application guide for use with the IEC common data dictionary (CDD)**

**Enregistrement d'ontologie de produits normalisés et transfert par tableurs –
Partie 2: Guide d'application pour l'utilisation avec le Dictionnaire de données
communes de la CEI (le CEI CDD)**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**STANDARDIZED PRODUCT ONTOLOGY
REGISTER AND TRANSFER BY SPREADSHEETS –****Part 2: Application guide for use
with the IEC common data dictionary (CDD)**

FOREWORD

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Technical specifications are subject to review within three years of publication to decide whether they can be transformed into International Standards.

IEC 62656-2, which is a technical specification, has been prepared by subcommittee 3D, Product properties and classes and their identification, of IEC technical committee 3: Information structures, documentation and graphical symbols.

The text of this technical specification is based on the following documents:

Enquiry draft	Report on voting
3D/202/DTS	3D/213/RVC

Full information on the voting for the approval of this technical specification 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 the parts of the IEC 62656 series under the general title *Standardized product ontology register and transfer by spreadsheets* 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

- transformed into an International Standard,
- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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INTRODUCTION

The IEC 62656 series entitled *Standardized product ontology register and transfer by spreadsheets* defines the means and methods for registering and exchanging product ontology(ies) expressed in spreadsheet forms.

IEC 62656 consists of the following parts:

- Part 1: Logical structure for data parcels¹;
- Part 2: Application guide for use with the IEC common data dictionary (IEC CDD);
- Part 3: Interface for common information model².

¹ To be published.

² To be published.

STANDARDIZED PRODUCT ONTOLOGY REGISTER AND TRANSFER BY SPREADSHEETS –

Part 2: Application guide for use with the IEC common data dictionary (CDD)

1 Scope

This part of IEC 62656 provides an application guide for the data parcels specified in IEC 62656-1 and used for the definition of a domain data dictionary that may be imported from and exported to the IEC common data dictionary, or IEC CDD for short, maintained as the IEC 61360-4 database [1]³. This part of IEC 62656 provides instructions for the interpretation and use of the technical specification defined in IEC 62656-1 within a software application, to avoid misuse of the data constructs available in IEC 62656-1.

This application guide contains the following items:

- principal information for implementing data parcels for data dictionaries from/to the IEC CDD,
- typical examples of how to implement typical features on data parcels,
- extension of conformance classes for implementation of parcel-based systems to import/export data parcels from/to the IEC CDD.

The following items are outside the scope of this part of IEC 62656:

- procedures for building IEC 61360 compliant domain data dictionaries,
- semantics of a standard data dictionary itself,
- theoretical explanation of the logical structure of data parcels, which is considered in IEC 62656-1,
- interface for the common information model (IEC 61970-301 [2]), which is considered in IEC 62656-3 [3].

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 61360-1, *Standard data element types with associated classification scheme for electric items – Part 1: Definitions – Principles and methods*

IEC 61360-2, *Standard data element types with associated classification scheme for electric components – Part2: EXPRESS dictionary schema*

IEC 61987-10:2009, *Industrial-process measurement and control – Data structures and elements in process equipment catalogues – Part 10: List of properties (LOPs) for industrial-process measurement and control for electronic data exchange – Fundamentals*

³ Numbers in square brackets refer to the Bibliography.