



# SLOVENSKI STANDARD

## oSIST prEN IEC 63489:2024

01-september-2024

---

### Zbirka podatkov – Skupni koncepti podatkov za pametno proizvodnjo

Db - Common data concepts for smart manufacturing

Base de données - Concepts de données communs pour la fabrication intelligente

Ta slovenski standard je istoveten z: prEN IEC 63489:2024

---

#### ICS:

25.040.01	Sistemi za avtomatizacijo v industriji na splošno	Industrial automation systems in general
35.240.50	Uporabniške rešitve IT v industriji	IT applications in industry

**oSIST prEN IEC 63489:2024**

**en,fr,de**





## COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:

**IEC 63489 ED1**

DATE OF CIRCULATION:

**2024-06-28**

CLOSING DATE FOR VOTING:

**2024-09-20**

SUPERSEDES DOCUMENTS:

**65E/928/NP, 65E/991/RVN**

IEC SC 65E : DEVICES AND INTEGRATION IN ENTERPRISE SYSTEMS

SECRETARIAT:

United States of America

SECRETARY:

Mr David Richmond

OF INTEREST TO THE FOLLOWING COMMITTEES:

SC 3D, TC 65, TC 121

PROPOSED HORIZONTAL STANDARD:



Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.

FUNCTIONS CONCERNED:

☐ EMC☐ ENVIRONMENT☐ QUALITY ASSURANCE☐ SAFETY☒ SUBMITTED FOR CENELEC PARALLEL VOTING☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING**Attention IEC-CENELEC parallel voting**

The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting.

The CENELEC members are invited to vote through the CENELEC online voting system.

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Recipients of this document are invited to submit, with their comments, notification of any relevant "In Some Countries" clauses to be included should this proposal proceed. Recipients are reminded that the CDV stage is the final stage for submitting ISC clauses. (SEE [AC/22/2007](#) OR [NEW GUIDANCE DOC](#)).

TITLE:

**DB - Common data concepts for smart manufacturing**

PROPOSED STABILITY DATE: 2029

NOTE FROM TC/SC OFFICERS:

## CONTENTS

FOREWORD.....	3
INTRODUCTION.....	5
1 Scope.....	6
2 Normative references .....	6
3 Terms, definitions and abbreviations .....	6
3.1 Terms and definitions.....	6
3.2 Abbreviated terms.....	6
4 Digital Nameplate in IEC 61360-7 .....	6
4.1 Overview and generic concepts .....	6
4.2 Further development and maintenance .....	9
Figure 1 – Detailed overview of Asset Administration Shell and related entities (according to IEC 63278-1) .....	5
Table 1 - Name plate .....	7
Table 2 – Library of properties used in the device classes .....	8

ITeH Standards  
(<https://standards.iteh.ai>)  
Document Preview

[oSIST prEN IEC 63489:2024](https://standards.iteh.ai/catalog/standards/sist/578ec522-4fbc-413d-9192-5628f3de29e6/osist-pren-iec-63489-2024)

<https://standards.iteh.ai/catalog/standards/sist/578ec522-4fbc-413d-9192-5628f3de29e6/osist-pren-iec-63489-2024>

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## COMMON DATA CONCEPTS FOR SMART MANUFACTURING

## FOREWORD

- 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.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

IEC 63489 has been prepared by subcommittee SC655E: Devices and integration in enterprise systems, of IEC technical committee TC65: Industrial-process measurement, control and automation. It is an International Standard.

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

Draft	Report on voting
65E/928/NP	65E/991/RVN

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

73 The committee has decided that the contents of this document will remain unchanged until the  
74 stability date indicated on the IEC website under [webstore.iec.ch](https://webstore.iec.ch) in the data related to the  
75 specific document. At this date, the document will be

- 76 • reconfirmed,
- 77 • withdrawn,
- 78 • replaced by a revised edition, or
- 79 • amended.

80

## iTeh Standards (<https://standards.iteh.ai>) Document Preview

[oSIST prEN IEC 63489:2024](https://standards.iteh.ai/catalog/standards/sist/578ec522-4fbc-413d-9192-5628f3de29e6/osist-pren-iec-63489-2024)

<https://standards.iteh.ai/catalog/standards/sist/578ec522-4fbc-413d-9192-5628f3de29e6/osist-pren-iec-63489-2024>