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Industrial automation systems and integration — Integration of life-cycle data for process plants including oil and gas production facilities —

Part 100: Vocabulary

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. It is noted different approval criteria are needed for the different types of ISO documents. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 184, *Automation systems and integration*, Subcommittee SC 4, *Industrial data*.

A list of all parts in the ISO 15926 series can be found on the ISO website.

Any feedback or questions on this document can be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

The ISO 15926 series specifies the representation of process plant life-cycle information. This representation is based on a generic, conceptual data model that is suitable as the basis for implementation in a shared database or data warehouse.

The data model is designed to be used in conjunction with reference data: standard instances that represent data common to a substantial number of experts from the process plant engineering supply chain.

The support for a specific life-cycle activity depends on the use of an appropriate selection of reference data in conjunction with an appropriate data model derived from the ISO 15926 data model ontology.

This document lists terms used in the different parts of the ISO 15926 series. The terms are grouped based on ISO/TS 23164:2025 [1]. All terms used in the ISO 15926 series are indexed in the MS Excel and JSON file available at the following URL:

https://standards.iso.org/iso/15926/-100/ed-1/en

The approach used to develop the content of this document is described in Annex A.

The terms in this document will be updated in accordance with any new or revised parts that are developed, and revised editions will be released on a regular basis.

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Industrial automation systems and integration — Integration of life-cycle data for process plants including oil and gas production facilities —

Part 100: Vocabulary

1 Scope

This document defines terms related to integration of life-cycle data for process plant installations. These terms are used by the parts in the ISO 15926 series.

The following are outside the scope of this document:

— the reference data items that are contained in the reference data library, such as those covered in ISO/TS 15926-4:2024 [2];

— the entities used in the data model, such as those covered in ISO 15926-2:2003 [3].

2 Normative references

There are no normative references in this document.

3 Terms and definitions

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at http://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1 Terms related to basic concept

3.1.1
4-dimensionalism
data modelling approach that an object's persistence through time is like its *extension* (3.1.9) through space

3.1.2
asset
item, *thing* (3.1.23) or *entity* (3.1.8) that has potential or actual *value* (3.15.64) to an organization

[SOURCE: ISO 55000:2024 [4], 3.1.1, modified — Notes 1 and 2 to entry have been deleted.]

3.1.3
conceptual data model
data model in the three schema architecture defined by ISO TR 9007:1987 [5] in which the structure of *data* (3.1.4) is represented in a form independent of any physical storage or external presentation format

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