

# ISO 15926-6:2024-12 (E)

## Industrial automation systems and integration - Integration of life-cycle data for process plants including oil and gas production facilities - Part 6: Rules for the development and validation of reference data of ISO/TS 15926-4

### Contents

Page

**Foreword**..... v

**Introduction**..... vi

**1 Scope**..... 1

**2 Normative references**..... 1

**3 Terms, definitions, symbols and abbreviated terms**..... 2

    3.1 Terms and definitions..... 2

    3.2 Symbols..... 5

    3.3 Abbreviated terms..... 5

**4 General principles for the content of a reference data library (RDL)**..... 5

    4.1 Structure of the rules for attributes in this document..... 5

    4.2 Naming convention for attributes..... 6

    4.3 Presentation convention..... 6

    4.4 Defining a reference data library..... 6

        4.4.1 Definition and content of a reference data library..... 6

        4.4.2 Reference data library and reference data item..... 6

        4.4.3 Minimum information about a reference data item..... 6

        4.4.4 Reference data library..... 7

    4.5 Reference data item identification..... 7

        4.5.1 Category of reference data item identification..... 7

        4.5.2 Types of reference data item identification..... 7

        4.5.3 Types of text definitions and notes of a reference data item..... 8

    4.6 Classifications..... 8

        4.6.1 General..... 8

        4.6.2 Class of inheritance relationship (Attribute: Superclass#)..... 10

        4.6.3 Grouping based on ISO 15926-2 entities..... 10

    4.7 Attributes for units of measure (UoM)..... 10

**5 Reference data item attributes**..... 11

    5.1 Attribute: URI..... 11

        5.1.1 General..... 11

        5.1.2 Assignment of URI..... 11

        5.1.3 Syntax of URI..... 11

    5.2 Attribute: UniqueNumber..... 12

    5.3 Attribute: UniqueName..... 13

    5.4 Attribute: Synonym1..... 13

    5.5 Attribute: Synonym2..... 14

    5.6 Attribute: TextDefinition..... 14

        5.6.1 Content of a reference data item text definition..... 14

        5.6.2 Reference data item definition by explicit text..... 14

        5.6.3 Reference data item text definition by explicit text taken from a source..... 15

        5.6.4 Reference data item text definition by document reference..... 17

        5.6.5 Requirements for a reference data item text definition..... 18

        5.6.6 Use of a reference data item human-interpretable identifier in a text definition..... 18

        5.6.7 Standard forms for a reference data item text definition..... 19

    5.7 Attribute: Source..... 22

    5.8 Attribute: Notes..... 22

    5.9 Attribute: Superclass1..... 22

5.10	Attribute: Superclass2 .....	23
5.11	Attribute: Superclass3 .....	23
5.12	Attribute: Superclass4 .....	23
5.13	Attribute: Superclass5 .....	23
5.14	Attribute: ISO15926-2Entity .....	23
5.15	Attribute: Classification1 .....	23
5.16	Attribute: Classification2 .....	23
5.17	Attribute: Classification3 .....	23
5.18	Attribute: Classification4 .....	23
5.19	Attribute: Symbol .....	24
5.20	Attribute: Operator .....	24
5.21	Attribute: FirstOperand .....	24
5.22	Attribute: SecondOperand .....	24
5.23	Attribute: Factor .....	24
5.24	Attribute: Prefix .....	24
5.25	Attribute: Exponent .....	25
<b>6</b>	<b>Representation of a reference data library .....</b>	<b>25</b>
	<b>Annex A (normative) Representation of a reference data library in spreadsheet format .....</b>	<b>27</b>
	<b>Annex B (informative) Correspondence between versions of ISO/TS 15926-4 and ISO 15926-6 (this document) .....</b>	<b>31</b>
	<b>Annex C (informative) Recommendations for a reference data item text definition .....</b>	<b>32</b>
	<b>Bibliography .....</b>	<b>33</b>