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

6 Representation of a reference data library 25

Annex A (normative) **Representation of a reference data library in spreadsheet format 27**

Annex B (informative) **Correspondence between versions of ISO/TS 15926-4 and ISO 15926-6 (this document) 31**

Annex C (informative) **Recommendations for a reference data item text definition 32**

Bibliography 33