

ISO 20022-9:2026-04 (E)

Financial services - Universal financial industry message scheme - Part 9: Syntax generation requirements and rules

Contents

Page

- Foreword..... v
- Introduction..... vi
- 1 Scope..... 1**
- 2 Normative references..... 1**
- 3 Terms and definitions..... 1**
- 4 Background..... 2**
- 5 How to read this document..... 2**
 - 5.1 General..... 2
 - 5.2 Difference between terms (verbs) of “use” and “utilize” in Syntax generation rules..... 2
 - 5.3 Outline of steps to create Syntax generation rules..... 2
- 6 General requirements of Syntax generation..... 3**
 - 6.1 Transformation of logical level metamodel concepts..... 3
 - 6.2 Transformation of data types..... 4
 - 6.3 Common content structure of a syntax generation specification document..... 4
- 7 ISO 20022 transformation rules for MessageSet..... 5**
 - 7.1 General..... 5
 - 7.1.1 Overview..... 5
 - 7.1.2 Syntax generation rules..... 5
 - 7.2 Preconditions..... 5
 - 7.2.1 Overview..... 5
 - 7.2.2 Syntax generation rules..... 5
 - 7.3 Transformation constraints..... 5
 - 7.3.1 Overview..... 5
 - 7.3.2 Syntax generation rules..... 6
 - 7.4 Other rules for the specific syntax..... 7
- 8 MessageInstances..... 7**
 - 8.1 General..... 7
 - 8.1.1 Overview..... 7
 - 8.1.2 Syntax generation rules..... 7
 - 8.2 Completeness..... 7
 - 8.2.1 Overview..... 7
 - 8.2.2 Syntax generation rules..... 7
 - 8.3 Other rules for the specific syntax..... 7
- 9 Method..... 7**
- 10 Syntax generation rules of Logical classes..... 8**
 - 10.1 General..... 8
 - 10.2 MessageSet..... 8
 - 10.2.1 Overview..... 8
 - 10.2.2 Syntax generation rules..... 8
 - 10.3 MessageDefinition..... 8
 - 10.3.1 Overview..... 8
 - 10.3.2 Syntax generation rules..... 8
 - 10.4 MessageDefinitionIdentifier..... 8
 - 10.4.1 Overview..... 8
 - 10.4.2 Syntax generation rules..... 9

10.5	MessageBuildingBlock	9
10.5.1	Overview	9
10.5.2	Syntax generation rules	9
10.6	MessageComponentType	9
10.6.1	General	9
10.6.2	ExternalSchema	10
10.6.3	MessageComponent	10
10.6.4	ChoiceComponent	11
10.7	MessageElement	11
10.7.1	General	11
10.7.2	MessageAttribute	11
10.7.3	MessageAssociationEnd where aggregation is composite	12
10.7.4	MessageAssociationEnd where aggregation is none or shared	12
10.8	Other considerations	13
11	Syntax generation rules of user-defined data types	13
11.1	General	13
11.1.1	Overview	13
11.1.2	Syntax generation rules	13
11.1.3	Common syntax generation rules for DataTypes	13
11.2	Link data types	13
11.2.1	Pointer	13
11.3	Boolean data types	14
11.3.1	Boolean	14
11.3.2	Indicator	14
11.4	Sequence data types	14
11.4.1	Binary	14
11.4.2	String	14
11.4.3	Text	15
11.4.4	CodeSet	15
11.4.5	IdentifierSet	16
11.5	Numeric data types	16
11.5.1	Decimal	16
11.5.2	Quantity	16
11.5.3	Rate	17
11.5.4	Amount	17
11.6	Temporal data types	18
11.6.1	DateTime	18
11.6.2	Date	18
11.6.3	Time	18
11.6.4	Year	18
11.6.5	Month	18
11.6.6	Day	19
11.6.7	YearMonth	19
11.6.8	MonthDay	19
11.6.9	Duration	19
	Annex A (normative) A template for syntax generation rules	20
	Annex B (informative) Conformance to this document	23
	Annex C (informative) Maintenance process of metamodel	24
	Bibliography	25