

# ISO 20022-2:2013-05 (E)

## Financial services - Universal financial industry message scheme - Part 2: UML profile

---

<b>Contents</b>		<b>Page</b>
Foreword .....		v
Introduction .....		vii
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	How the Profile is specified .....	2
4.1	General .....	2
4.2	Package structure of the Profile .....	2
4.3	Basic organization of the Profile specification .....	2
4.4	Properties of the Metamodel and UML -- Tag Definitions .....	3
4.5	Properties of the Metamodel that correspond to existing UML Properties .....	3
4.6	AssociationEnds .....	3
4.7	Constraints .....	3
4.8	Figures .....	3
4.9	How modellers choose which UML Diagrams to create .....	3
5	Mapping the Metamodel's elements to UML .....	4
5.1	General .....	4
5.2	UML realization of ISO20022::Metamodel .....	4
5.2.1	General .....	4
5.2.2	Metaclass: BusinessProcessCatalogue .....	4
5.2.3	Metaclass: CodeSet .....	4
5.2.4	Metaclass: Code .....	5
5.2.5	Metaclass: Constraint .....	5
5.2.6	Metaclass: DataDictionary .....	5
5.2.7	Metaclass: IdentifierSet .....	5
5.2.8	Metaclass: Repository .....	5
5.2.9	Metaclass: RepositoryConcept .....	6
5.2.10	Metaclass: TopLevelCatalogueEntry .....	6
5.2.11	Metaclass: TopLevelDictionaryEntry .....	6
5.2.12	Metaclass: Trace .....	6
5.2.13	Data Type: Cardinality .....	6
5.3	UML realization of ISO20022::Metamodel::ScopeLevel .....	7
5.3.1	General .....	7
5.3.2	Metaclass: BusinessProcess .....	7
5.3.3	Metaclass: BusinessRole .....	7
5.4	UML realization of ISO20022::Metamodel::ScopeToConceptualTransformation .....	8
5.4.1	General .....	8
5.4.2	Metaclass: BusinessProcessTrace .....	8
5.4.3	Metaclass: BusinessRoleTrace .....	8
5.5	UML realization of ISO20022::Metamodel::ConceptualLevel::Dynamic .....	8
5.5.1	General .....	8
5.5.2	Metaclass: BusinessTransaction .....	9
5.5.3	Metaclass: MessageTransmission .....	9
5.5.4	Metaclass: MessageTransportMode .....	10
5.5.5	Metaclass: Participant .....	10

5.5.6	Metaclass: Receive .....	11
5.5.7	Metaclass: Send .....	11
5.6	UML realization of ISO20022::Metamodel::ConceptualLevel::Static .....	11
5.6.1	General .....	11
5.6.2	Metaclass: BusinessAssociation .....	11
5.6.3	Metaclass: BusinessAssociationEnd .....	12
5.6.4	Metaclass: BusinessAttribute .....	12
5.6.5	Metaclass: BusinessComponent .....	12
5.6.6	Metaclass: BusinessElement .....	13
5.7	UML realization of ISO20022::Metamodel::ConceptualToLogicalTransformation .....	13
5.7.1	General .....	13
5.7.2	Metaclass: BusinessComponentTrace .....	13
5.7.3	Metaclass: BusinessElementTrace .....	14
5.7.4	Metaclass: CodeSetTrace .....	14
5.7.5	Metaclass: MessageTypeTrace .....	14
5.8	UML realization of ISO20022::Metamodel::LogicalLevel .....	15
5.8.1	General .....	15
5.8.2	Metaclass::BusinessArea .....	15
5.8.3	Metaclass: ChoiceComponent .....	15
5.8.4	Metaclass: ExternalSchema .....	15
5.8.5	Metaclass: MessageAssociation .....	15
5.8.6	Metaclass: MessageAssociationEnd .....	15
5.8.7	Metaclass: MessageAttribute .....	16
5.8.8	Metaclass: MessageBuildingBlock .....	16
5.8.9	Metaclass: MessageComponent .....	16
5.8.10	Metaclass: MessageComponentType .....	17
5.8.11	Metaclass: MessageDefinition .....	17
5.8.12	Metaclass: MessageDefinitionIdentifier .....	18
5.8.13	Metaclass: MessageElement .....	18
5.8.14	Metaclass: MessageSet .....	19
5.9	UML realization of ISO20022::Metamodel::DataTypes .....	19
5.9.1	General .....	19
5.9.2	DataType: Amount .....	19
5.9.3	DataType: Indicator .....	19
5.9.4	DataType: Quantity .....	19
5.9.5	DataType: Rate .....	19
5.9.6	DataType: Text .....	20
5.10	UML realization of ISO20022::TypeLibrary::XMLSchema .....	20
5.11	UML realization of ISO20022::TypeLibrary::Enumerations .....	21
5.11.1	Enumeration: Aggregation .....	21
Annex A (normative) Definitions of Stereotypes and Tags .....		22
Bibliography .....		71