ISO 20022-3:2013-05 (E)

Financial services - Universal financial industry message scheme - Part 3: Modelling

Contents

Page

Foreword v

Introduction vii

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Workflow activities overview 1

5 Scope level 4
5.1 General 4
5.1.1 Purpose 4
5.1.2 Key topics 4
5.1.3 Main activities 4
5.1.4 Deliverables 4
5.2 Activities 5
5.2.1 Define business context 5
5.2.2 Define BusinessProcesses 6
5.3 Guidelines 6

6 Conceptual level 7
6.1 General 7
6.1.1 Purpose 7
6.1.2 Key topics 7
6.1.3 Main activities 7
6.1.4 Deliverables 7
6.2 Activities 8
6.2.1 Define business model 8
6.2.2 Define BusinessTransactions 9
6.3 Guidelines 12

7 Logical level 12
7.1 General 12
7.1.1 Purpose 12
7.1.2 Key topics 12
7.1.3 Main activities 13
7.1.4 Deliverables 13
7.2 Activities 13
7.2.1 Define the MessageSet 13
7.2.2 Compose MessageDefinition 13
7.3 Constraints 17
7.3.1 Inheritance 17
7.3.2 Normalized MessageDefinitions 18
7.3.3 Normalization 18
7.3.4 Non-Constraint preference 18
7.3.5 Sibling constraints 18
7.3.6 Value derivation 18
7.3.7 Versions versus flavours 18
7.3.8 Modelling associations between MessageComponent Types 18

7.4 Guidelines 19
7.4.1 BusinessTransactions 19
7.4.2 MessageInstance style 19
7.4.3 Party Neutral MessageInstance 19
7.4.4 MessageInstance granularity 19
7.4.5 How to handle bi-directional relations 20
7.4.6 Factorize 20
7.4.7 How to define an ExternalSchema 20
7.4.8 How to enforce canonical form for date or time related user-defined DataTypes 20

8 Physical level 21
8.1 General 21
8.1.1 Purpose 21
8.1.2 Key topics 21
8.1.3 Main activities 21
8.1.4 Deliverables 21
8.2 Activities 21
8.2.1 Create syntax scheme 21

9 Conventions 22
9.1 Constraints 22
9.2 Naming 22
9.2.1 General 22
9.2.2 Generic rules applicable to all Repository Concepts 22

Annex A (normative) Applied UML diagrams 23

Bibliography 24