

# ISO 20022-3:2013-05 (E)

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

<b>Contents</b>		<b>Page</b>
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	<b>Guidelines</b> .....	19
7.4.1	<b>BusinessTransactions</b> .....	19
7.4.2	<b>MessageInstance style</b> .....	19
7.4.3	<b>Party Neutral MessageInstance</b> .....	19
7.4.4	<b>MessageInstance granularity</b> .....	19
7.4.5	<b>How to handle bi-directional relations</b> .....	20
7.4.6	<b>Factorize</b> .....	20
7.4.7	<b>How to define an ExternalSchema</b> .....	20
7.4.8	<b>How to enforce canonical form for date or time related user-defined DataTypes</b> .....	20
8	<b>Physical level</b> .....	21
8.1	<b>General</b> .....	21
8.1.1	<b>Purpose</b> .....	21
8.1.2	<b>Key topics</b> .....	21
8.1.3	<b>Main activities</b> .....	21
8.1.4	<b>Deliverables</b> .....	21
8.2	<b>Activities</b> .....	21
8.2.1	<b>Create syntax scheme</b> .....	21
9	<b>Conventions</b> .....	22
9.1	<b>Constraints</b> .....	22
9.2	<b>Naming</b> .....	22
9.2.1	<b>General</b> .....	22
9.2.2	<b>Generic rules applicable to all Repository Concepts</b> .....	22
	<b>Annex A (normative) Applied UML diagrams</b> .....	23
	<b>Bibliography</b> .....	24