



ISO 20022



Introduction to ISO 20022 – Universal financial industry message scheme



Agenda



- ISO 20022:
 - The value proposition
 - The standard
 - The actors
 - The registration process
 - The repository
- ISO 20022 registration platform
- Interoperability within the financial industry



The ISO 20022 value proposition (1/5)



Objective

To enable communication interoperability between financial institutions, their market infrastructures and their end-user communities

Major obstacle

Numerous overlapping standardization initiatives looking at XML financial messages:

MDDL, FIX, FinXML, VRXML, RIXML, XBRL, FpML, IFX, TWIST,
RosettaNet, OAGi, ACORD, etc.



The ISO 20022 value proposition (2/5)



Proposed solution

A single standardisation approach (methodology, process, repository) to be used by all financial standards initiatives

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The ISO 20022 value proposition (3/5)



Convergence into ONE standard is the long term objective...

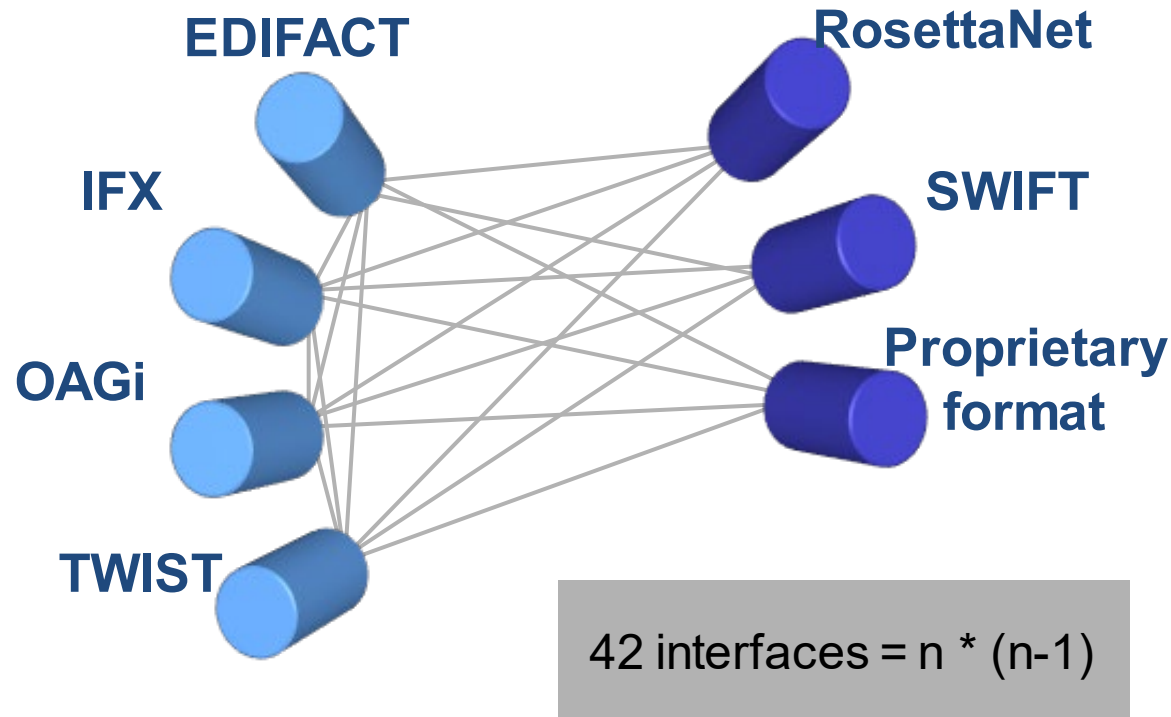


... but in the interim several standards need to **coexist** to enable quick response to competitive pressures and regulatory demands

The ISO 20022 value proposition (4/5)



Growth adds exponential complexity and expense...



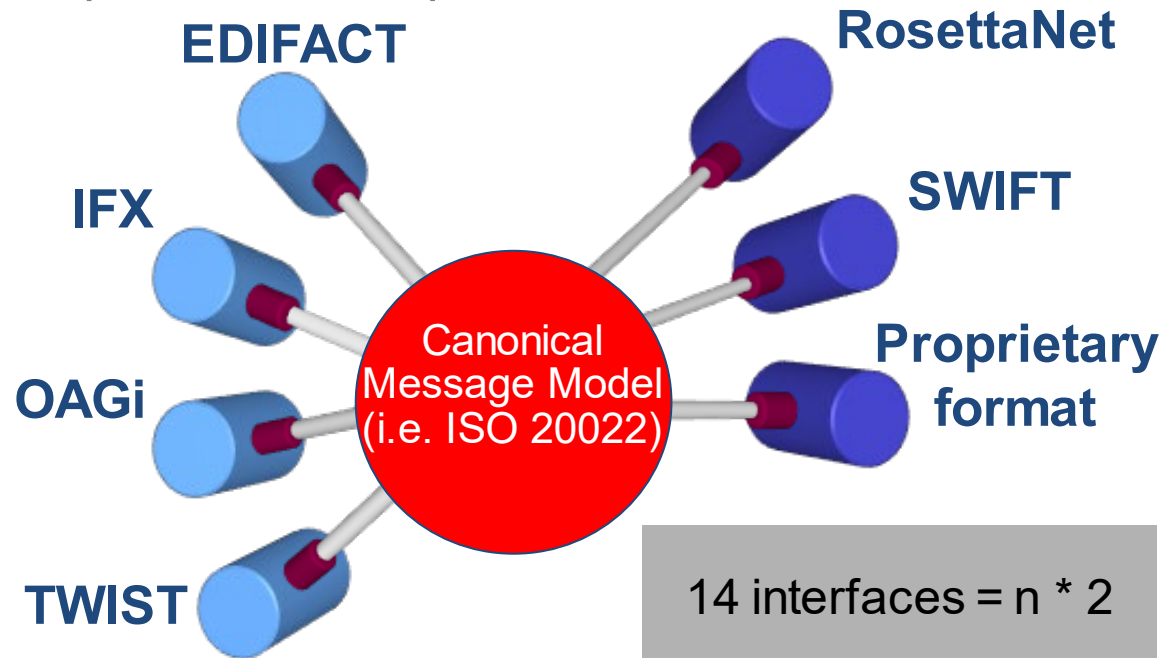
Without common building blocks:

- Point-to-point connection
- Data is mapped directly from one application to another
- Costly, unsalable and difficult to implement and maintain
- Process, routing, rules logic needs to be coded to specific message types

The ISO 20022 value proposition (5/5)



Standardized implementation reduces cost, time to effect change and improves overall performance...



Canonical message model =

- True process integration
- Reduced brittleness, faster to respond to change
- Shared message services – single/shared parser, message independent rules engine, etc.
- Unified monitoring / audit trail

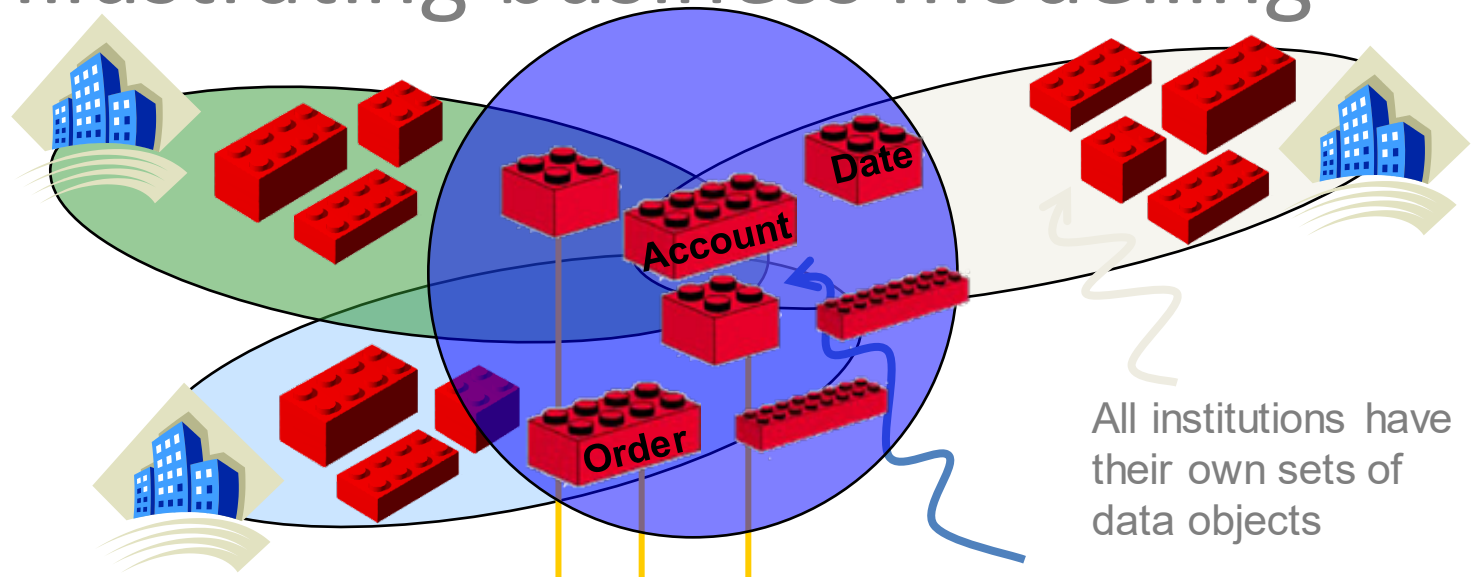
ISO aims at long term **convergence**,
while facilitating short term **coexistence**...



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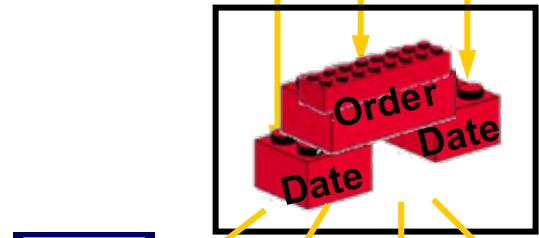


Illustrating business modelling

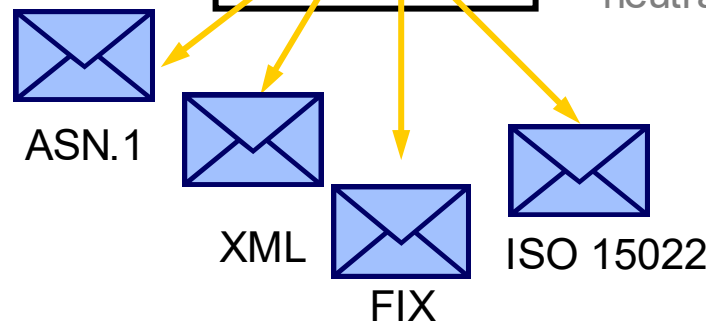


ISO standardizes common data objects...

...and groups them into 'syntax-neutral' message models, which...



... can be 'transformed' in message formats in the desired syntax





The ISO 20022 recipe

Main ingredients (1/2)



- Modelling-based standards development
 - Syntax-independent business standard
 - Validated by the industry
- Syntax-specific design rules for XML and ASN.1
 - Predictable and 'automatable'
 - Protect standard from technology evolution
- Reverse engineering approach
 - Protect industry investment and ease interoperability
 - Prepare for future migration



The ISO 20022 recipe

Main ingredients (2/2)



- Development / registration process
 - Clearly identified activities and roles
 - Business experts and future users involved upfront
 - Technical experts involved when required
- Repository on the ISO 20022 website
 - Business Process Catalogue & Data Dictionary
 - Outside of official standard (maintained by registration bodies)

www.iso20022.org

The eight parts of ISO 20022



Part 1: Metamodel

Part 2: UML profile

Part 3: Modelling

Part 4: XML schema generation

Part 5: Reverse engineering

Part 6: Message transport characteristics

Part 7: Registration

Part 8: ASN.1 generation

Copies can be obtained from www.iso.org



ISO 20022: The actors (1/2)

- Registration Management Group, RMG
 - Approve business justifications for new message standards
 - Approve new member entities
 - Create Standard Evaluation Groups (SEGs)
- Standards Evaluation Groups, SEGs
 - Represent users in specific financial areas
 - Validate new candidate messages and change requests



ISO 20022: The actors (2/2)

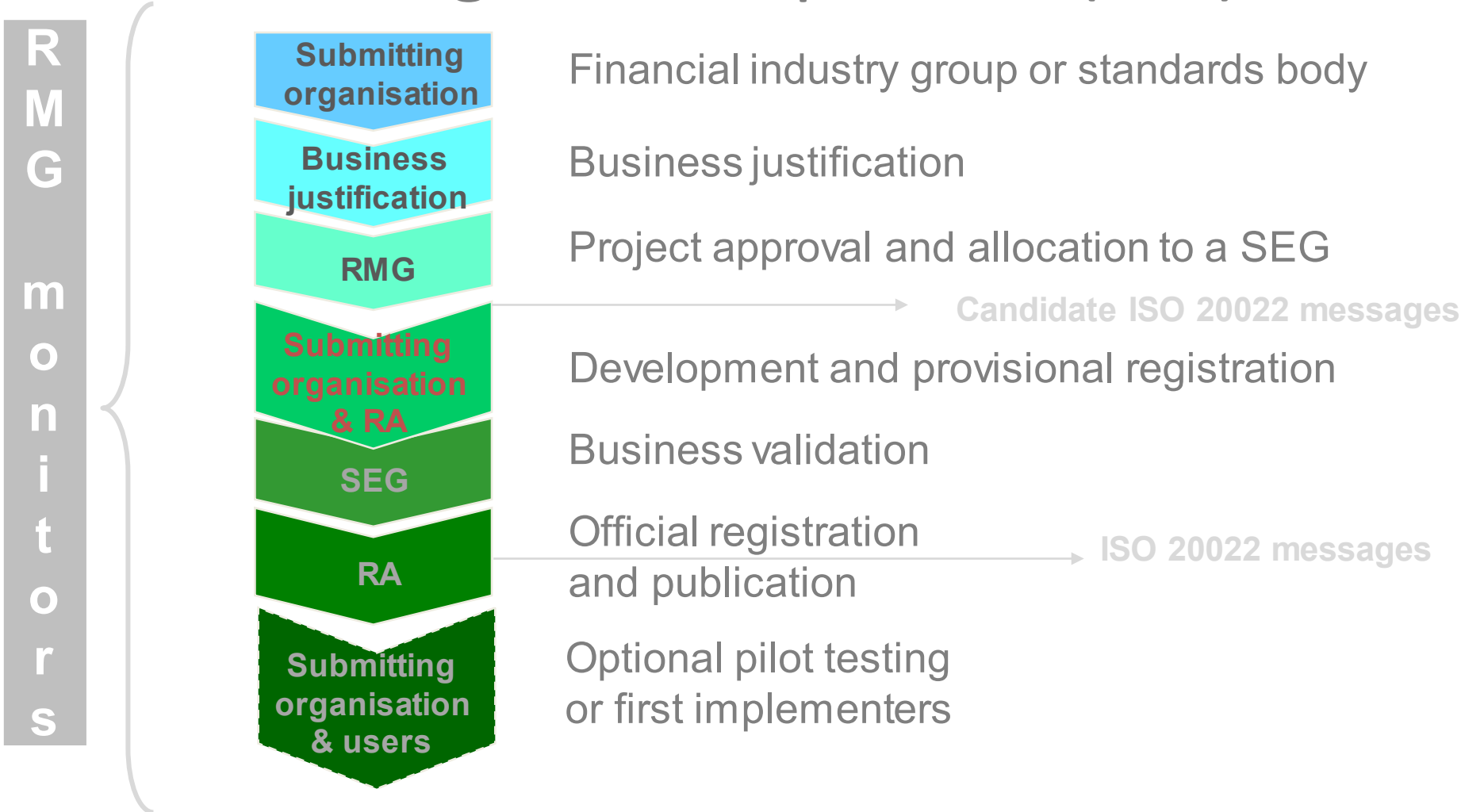
- Registration Authority, RA
 - Ensure compliance
 - Maintain and publish ISO 20022 Repository
- Technical Support Group, TSG
 - Assist RMG, SEGs, RA and submitting organisations



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The registration process (1/2)

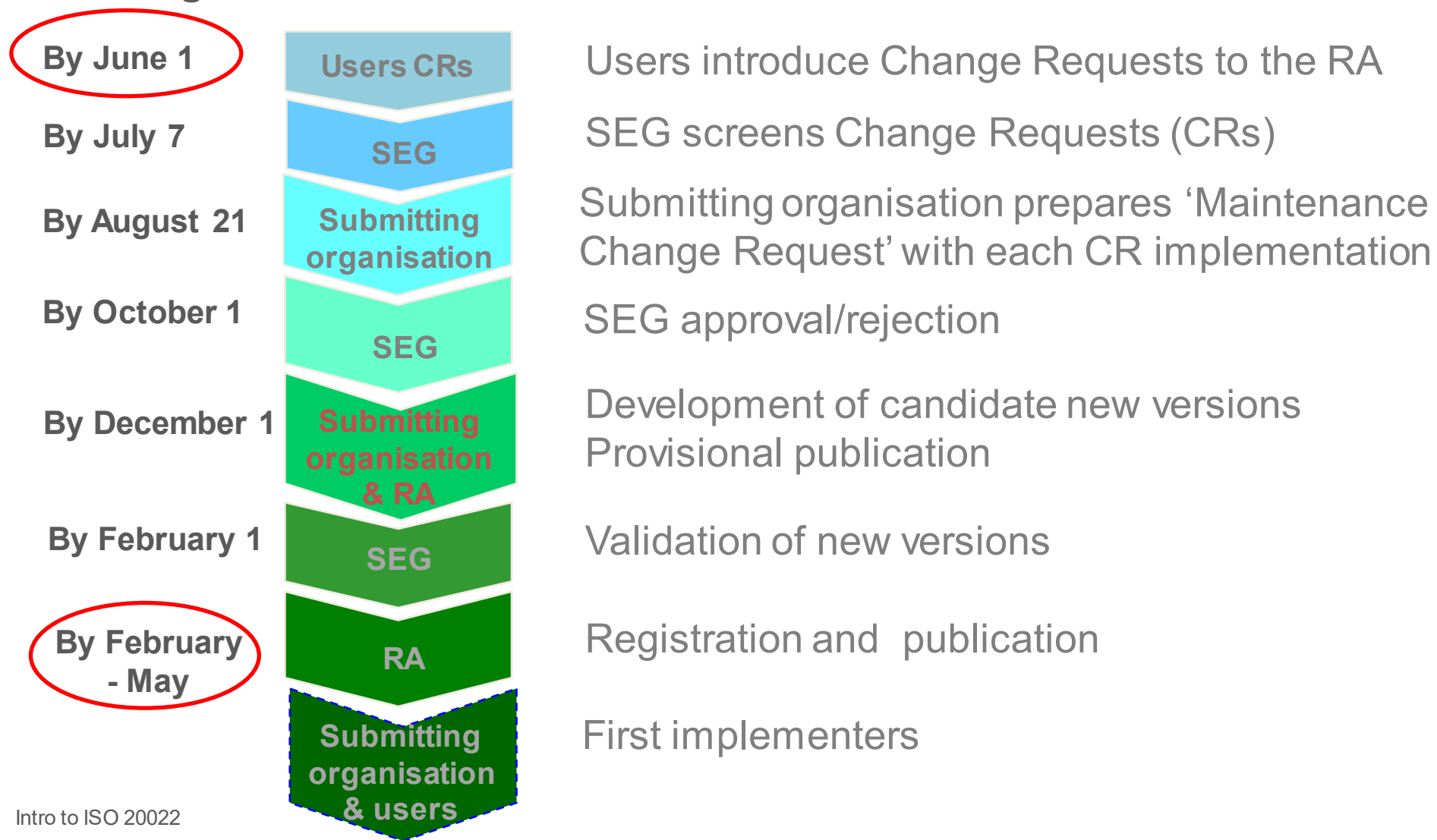


ISO 20022 registration process (2/2)



Yearly maintenance process

Timing

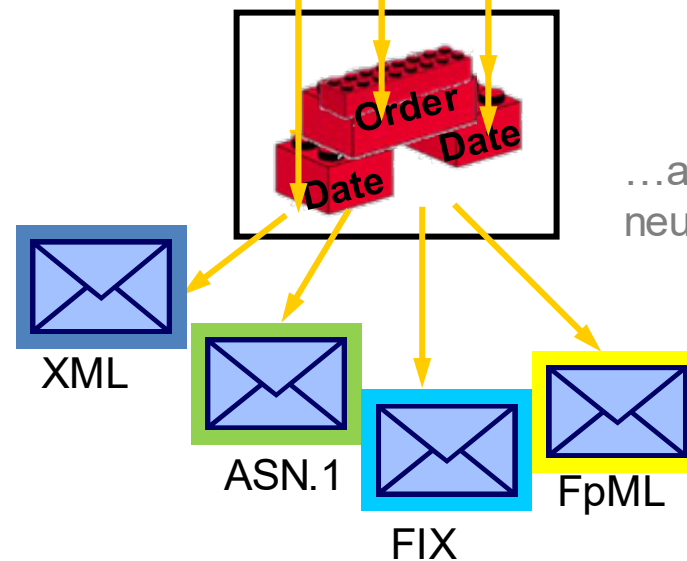
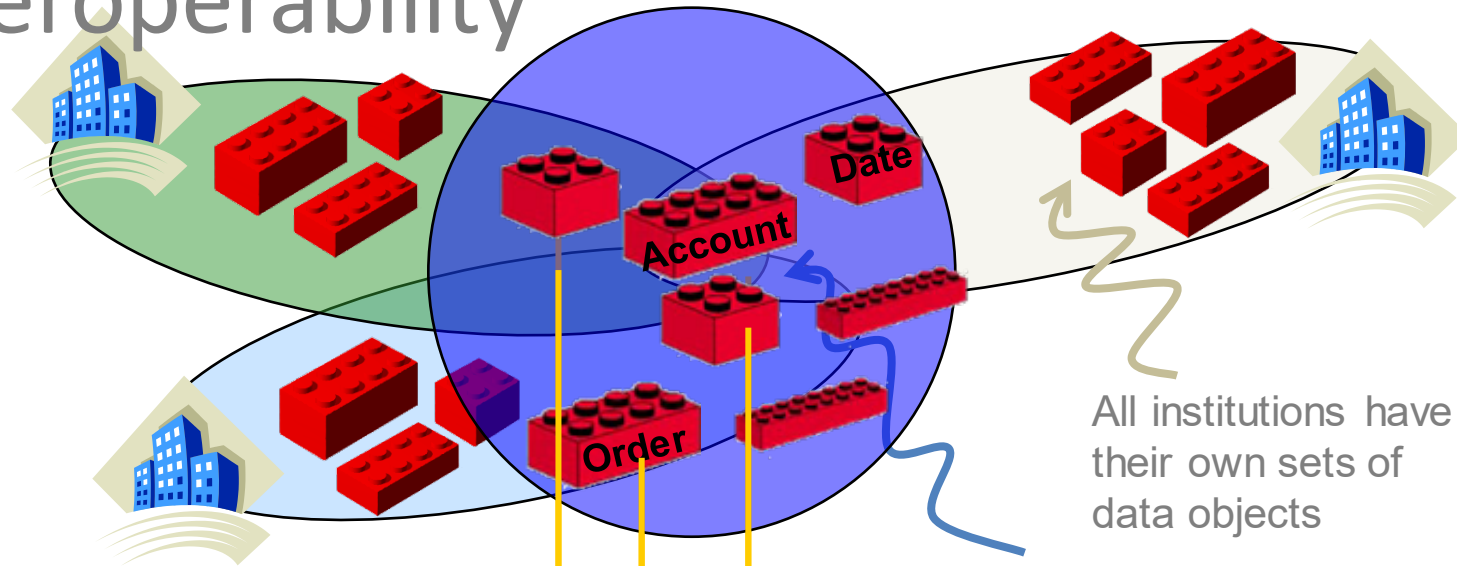


ISO 20022 - The Financial Repository



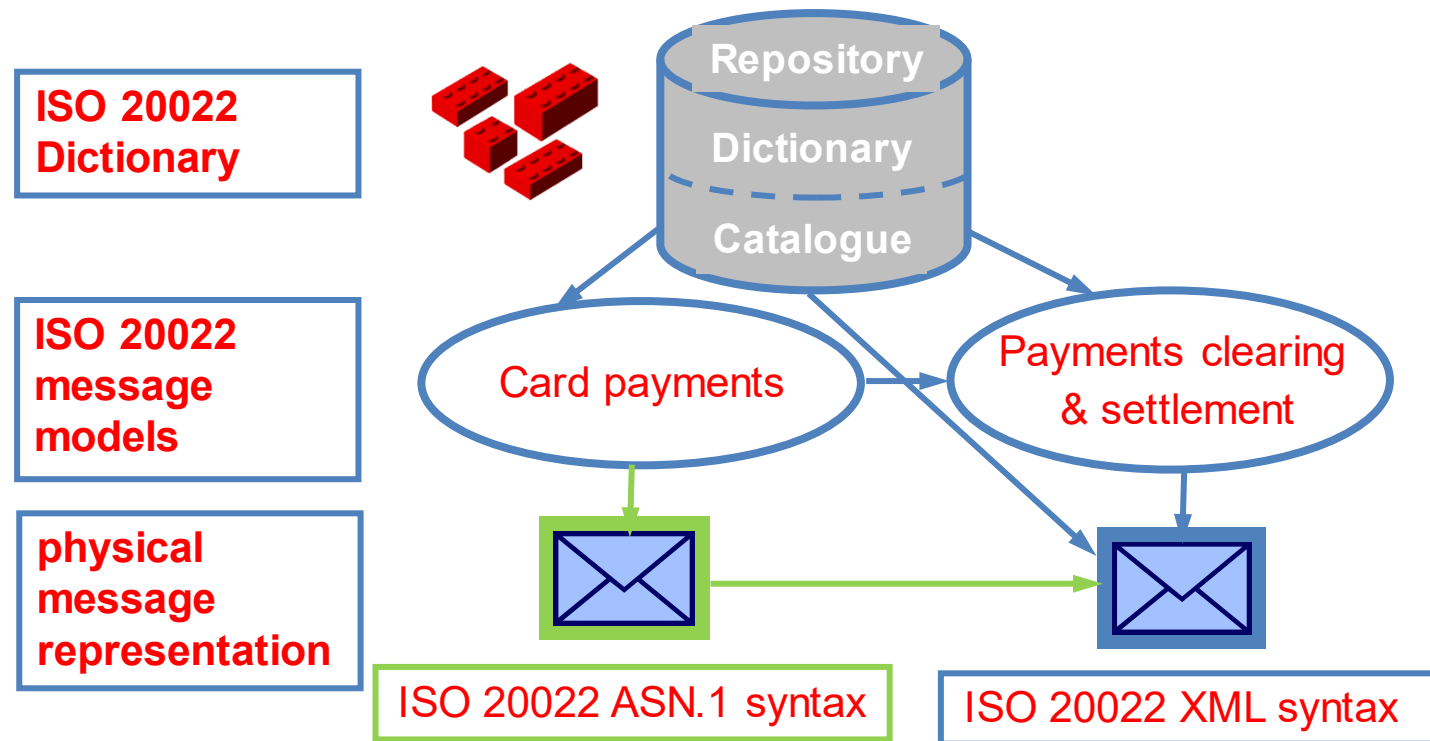
- Data Dictionary
 - Business Concepts
 - Message Concepts
 - Data Types
- Business Process Catalogue
 - Financial business process models
 - Financial business transactions, including messages
 - XML or ASN.1 message schemas

Using ISO 20022 modelling to reach interoperability

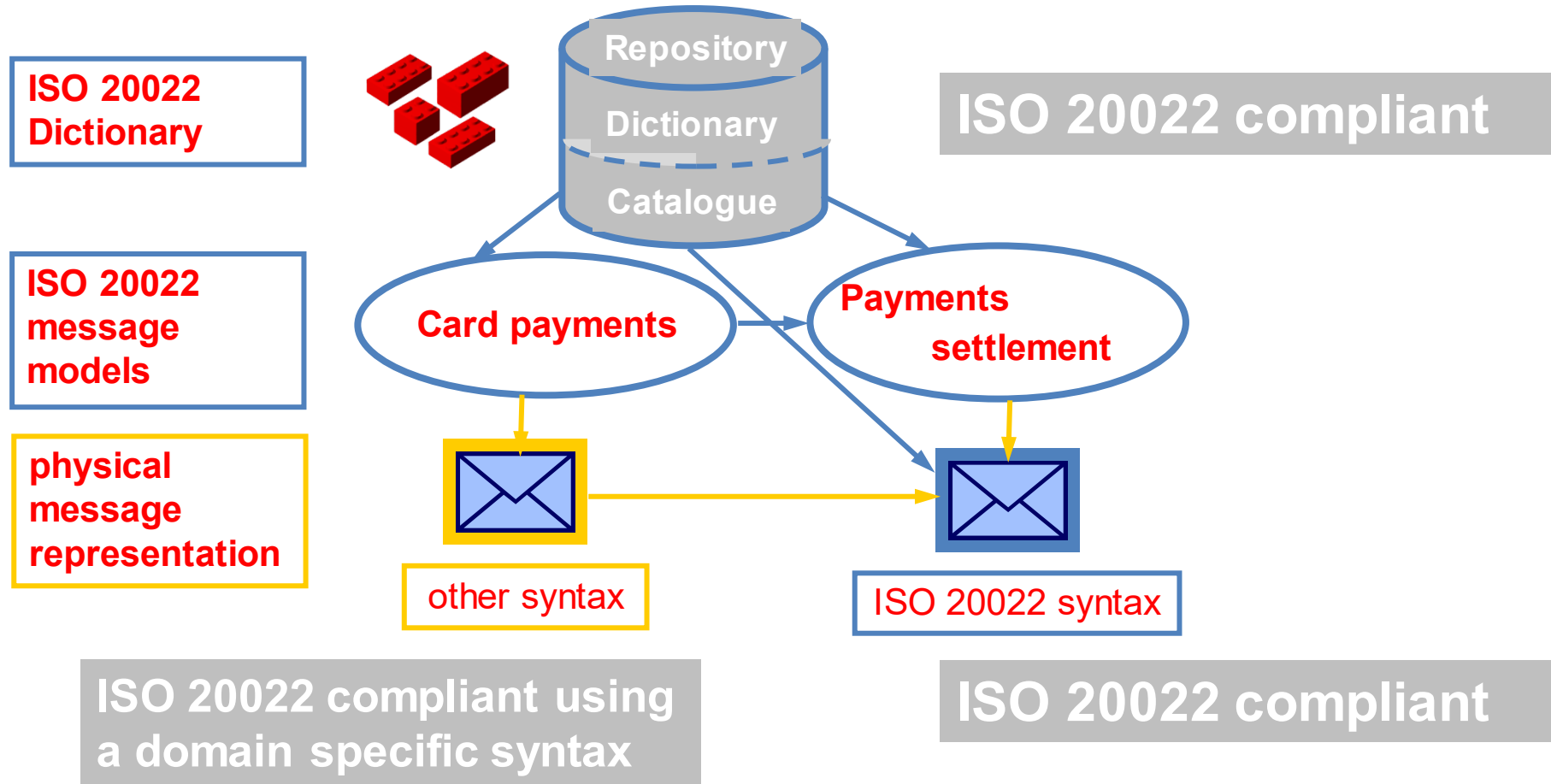


... can be 'transformed' in message formats in the desired syntax

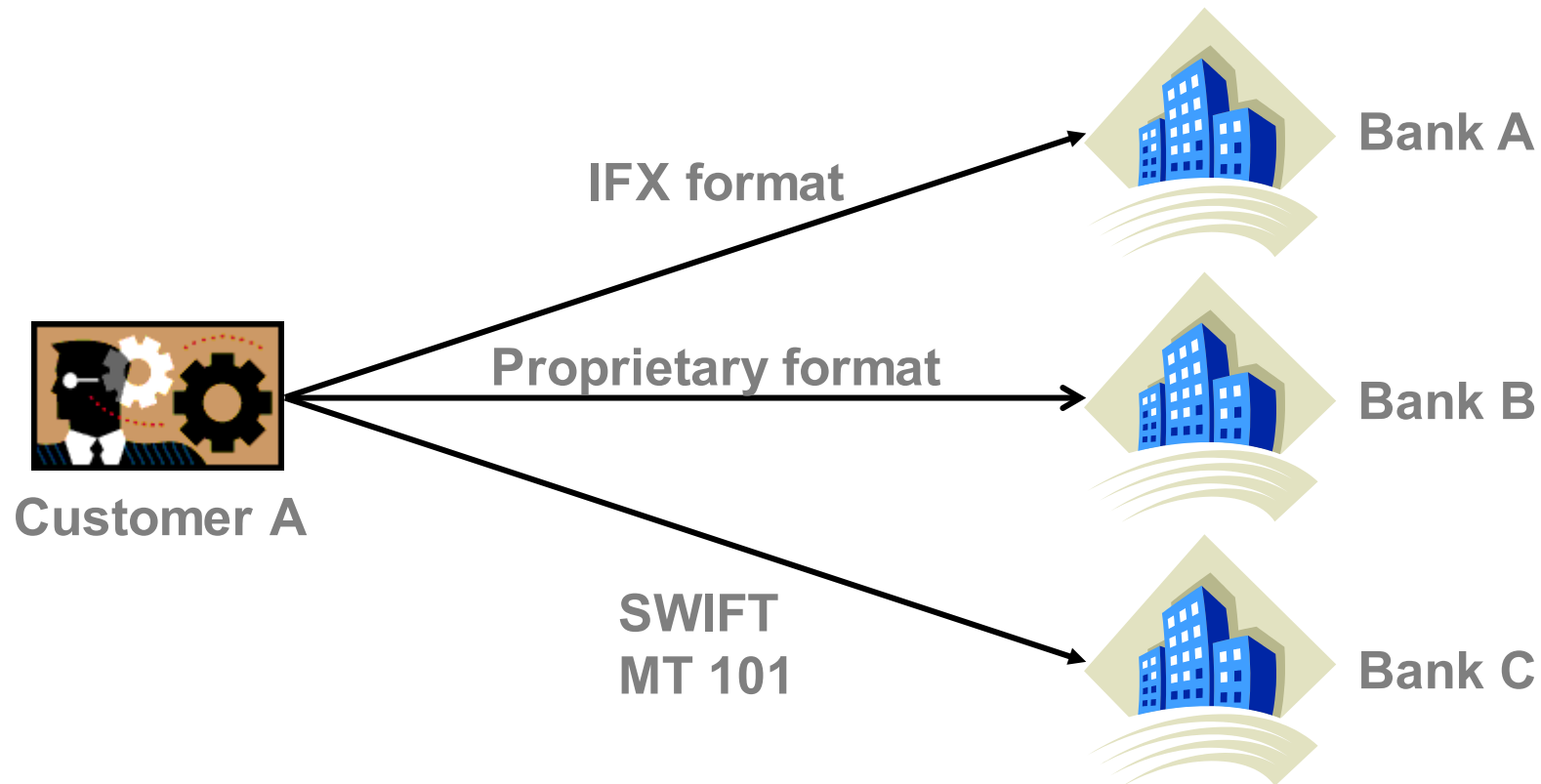
ISO 20022 compliance at model level



ISO 20022 compliance at model level

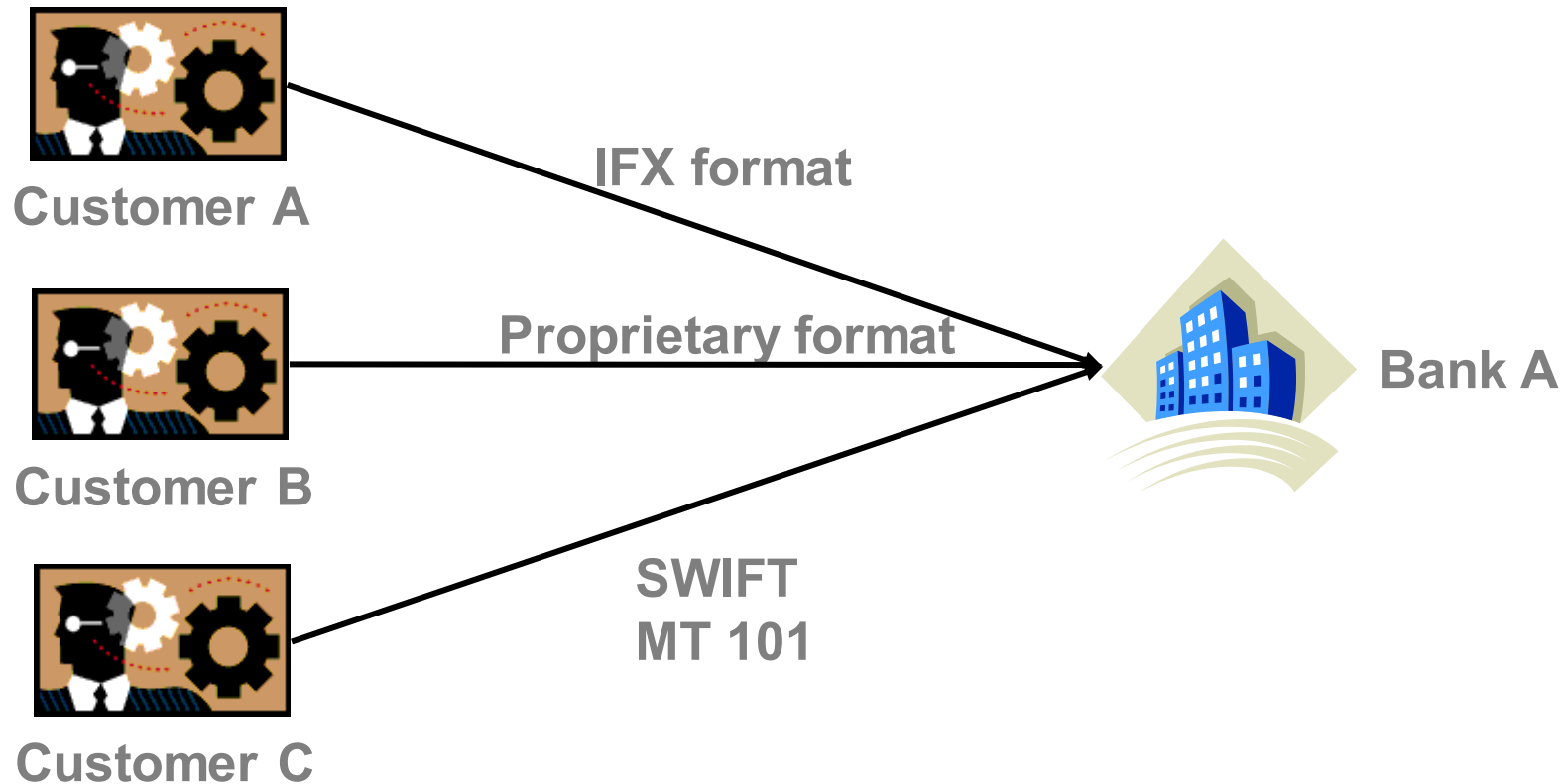


Interoperability in the customer-to-bank payment domain



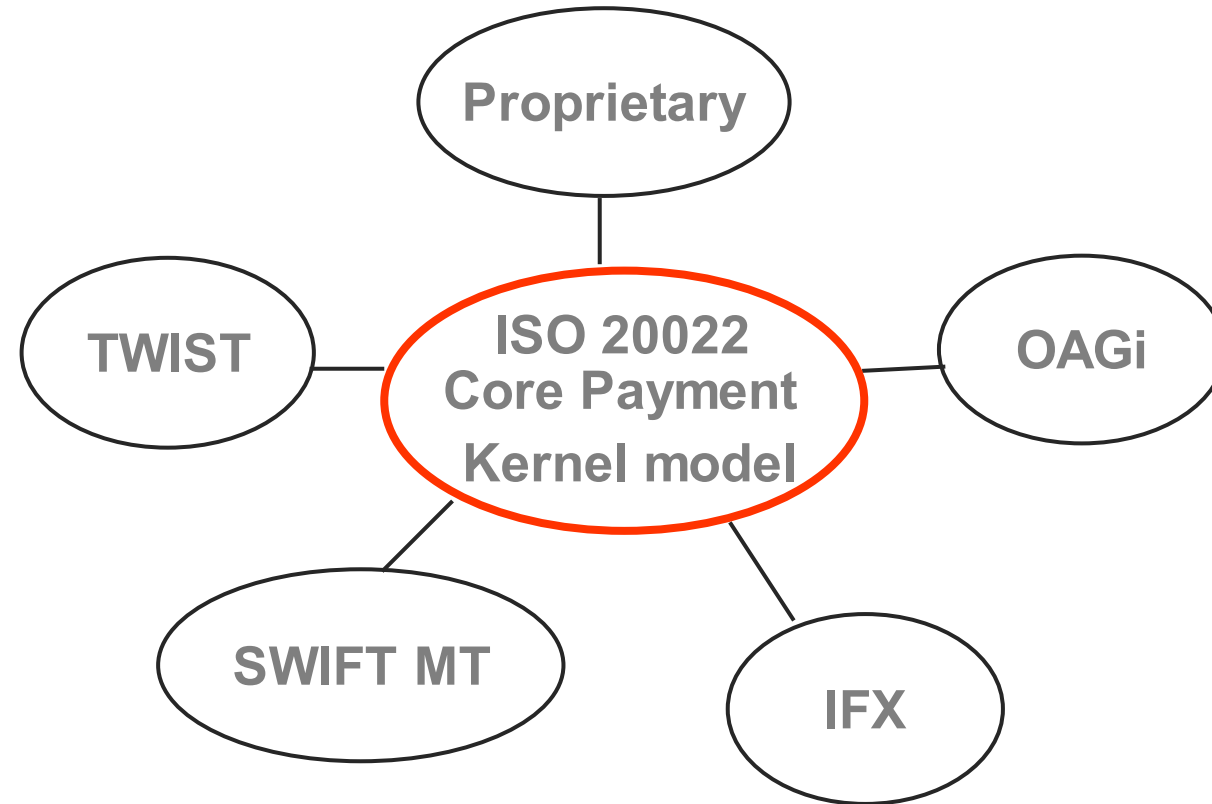
Let us look at a concrete example from payments area:
a customer may need to adapt to the format of the banks...

Interoperability in the customer-to-bank payment domain



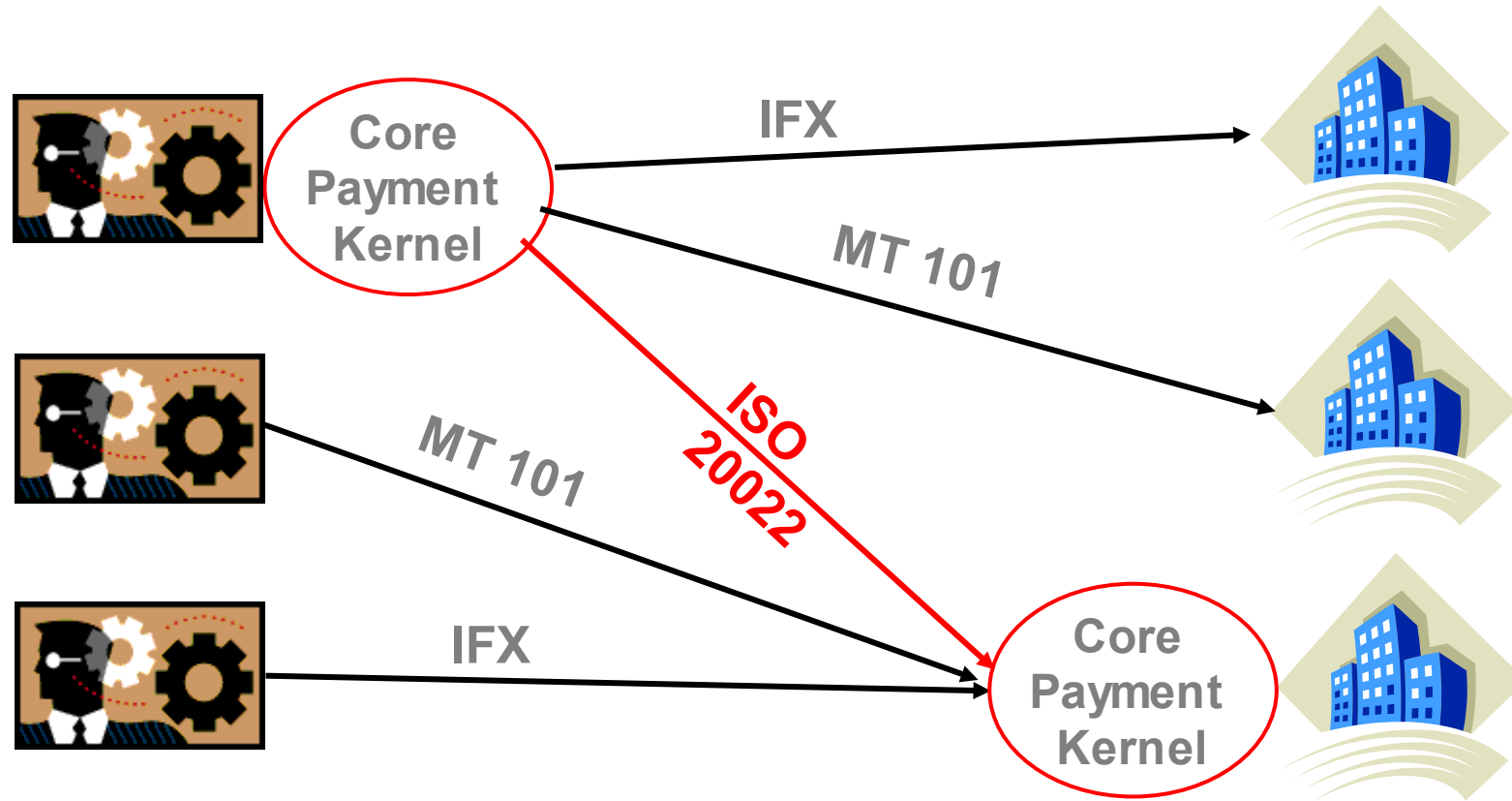
...or banks may need to accept many formats...

Interoperability in the customer-to-bank payment domain



The reverse engineering produces a canonical ISO 2022 message model

Interoperability in the customer-to-bank payment domain



Adopting ISO 20022 facilitates convergence and co-existence

Additional information available from
www.iso20022.org