



ISO 20022 – Overview

Nicole Jolliffe, SWIFT Services Australia
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Why ISO 20022?

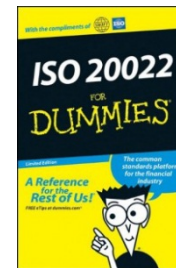


- Paper-based
- Proprietary syntax
- Point-to-point
- One size fits all
- SWIFT only



- Reference standard
- Electronic
- Open, neutral syntax
- End-to-end transaction
- Market practice
- SWIFT + other organisations

FIN MT:
Computer-processable
versions of telexes



What is ISO 20022?

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

Recipe to create financial standards

Business / Conceptual

- Defines **business meaning** of financial concepts, e.g., 'Credit Transfer'

Logical

- Defines e.g. credit transfer **messages**, to execute the business process

Physical

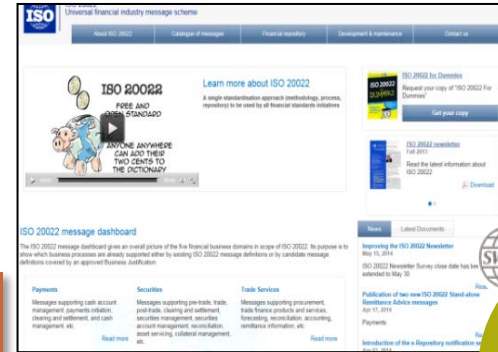
- Defines physical **syntax**, e.g. XML

Body of content

- **Business models**

- **Data dictionary**

- **Catalogue of messages**



+ SWIFT
User Handbook



ISO 20022 message
catalogue

Maintenance process –
built on strict business
justifications and review
process - leading to new
'versions' of the
messages

More than 20
submitting
organisations, besides
SWIFT

More than 400
messages, covering
payments, securities,
trade services, FX, cards

Over 20 Business Areas - EXAMPLE

- 'PAIN' = Payment initiation = used in Corporate-to-bank
- 'PACS' = Interbank clearing and settlement = used in HVP and LVP MI
- 'SESE' = Securities settlement = used in Securities MI
- 'SEMT' = Securities management = used in Securities MI

Benefits of ISO 20022

- > Richness of the data - **greater automation and precision**
- > Scenario-based standards – **business-centric approach**
- > Repository and reusable components – **ease of integration**
- > XML syntax - **easy processing and lower integration cost**
- > Syntax-independent model - **future-proof**
- > Supplementary Data Component - **extensibility**
- > Character sets - **supports local languages**
- > Currencies - **multi-currency payments**
- > Authentication – **digital signatures**



ISO 20022 - Business Areas

acmt

Account management

admi

Administration

colr

Collateral Management

catm

Terminal Management

setr

Securities Trade

secl

Securities Clearing

pacs

Payments Clearing and
Settlement

tsmt

Trade Services Management



camt

Cash Management.

semt

Securities Management

pain

Payment Initiation

tsin

Trade Services Initiation

reda

Reference Data.

fxtr

Foreign Exchange Trade

sese

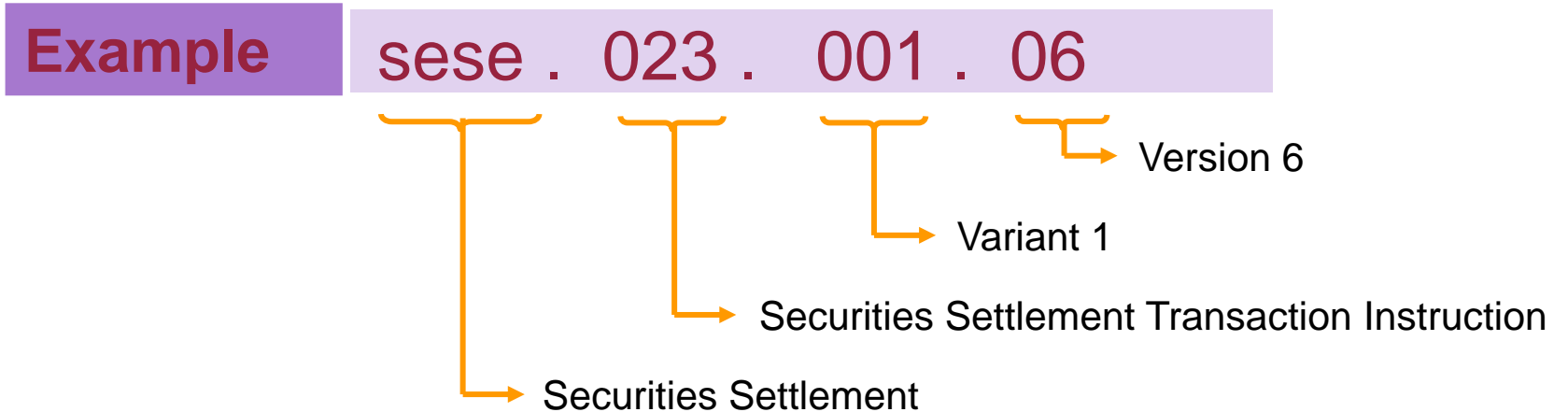
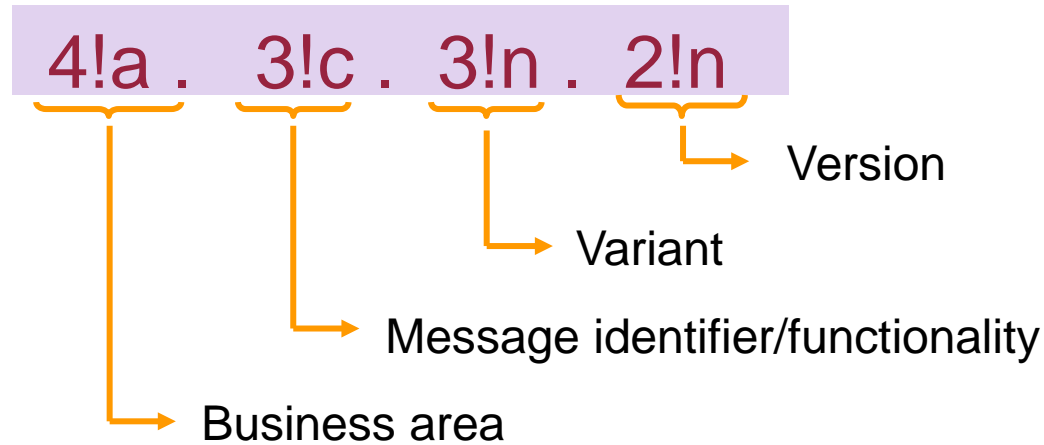
Securities Settlement

seev

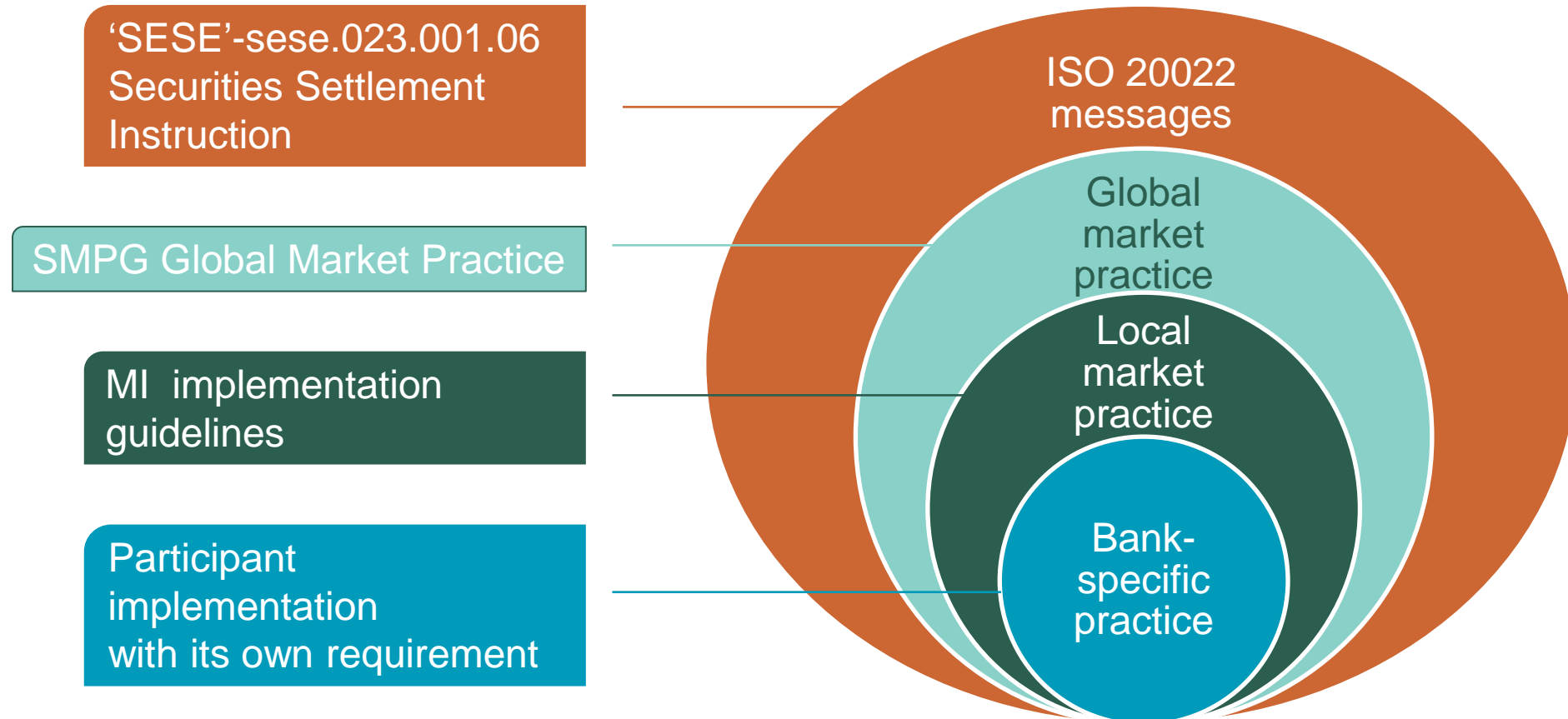
Securities Events.



ISO 20022 Message Identifier



Standards are created globally and used locally: market practice and variants



ISO 20022 Methodology

Three layered approach

Business modelling

Business & requirements analysis

Logical modelling

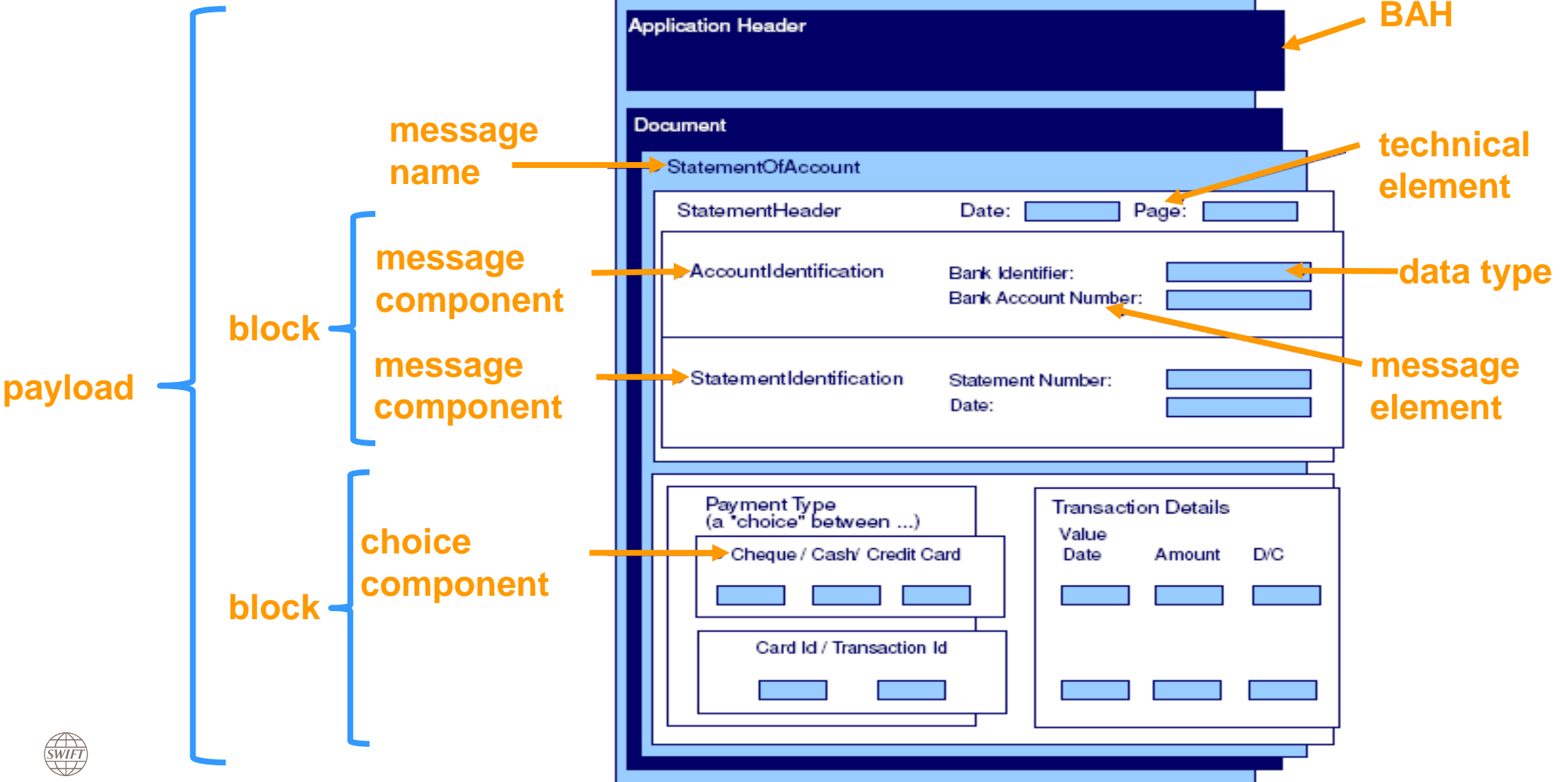
Define the solution & build the
message models

Physical messages

Generate XML schemas



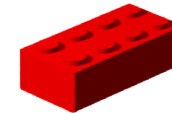
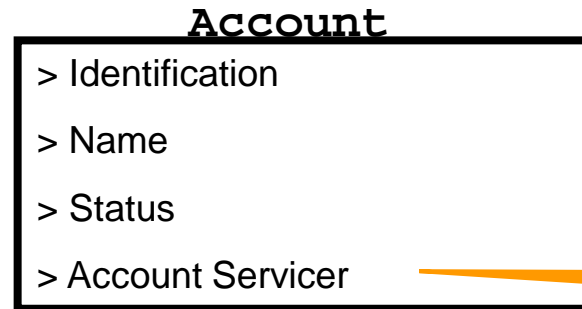
Message Structure



Components

- Business concepts are defined using re-usable Business Components:

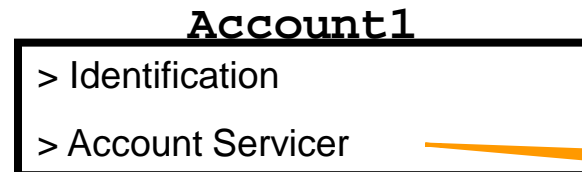
Business Component



business
element

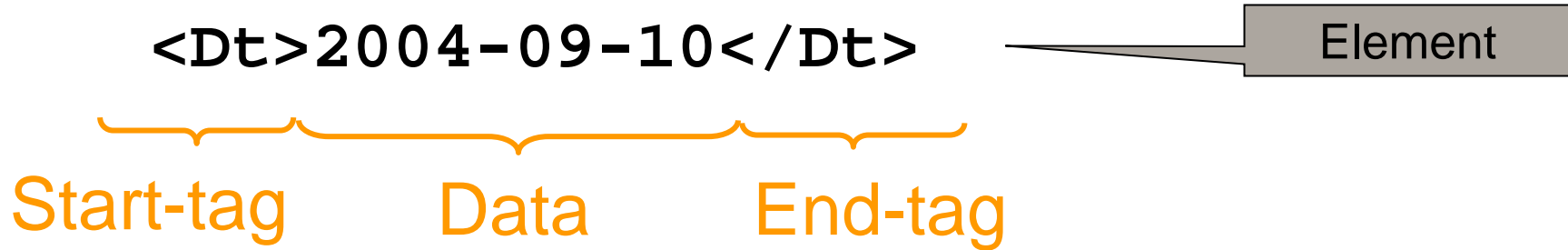
- In a particular message, the following Message Component “Account1” is used:

Message Component



message
element

XML Elements



- Document consists of data marked up by tags
- Tags describe meaning and structure of data
- An element is a group of start-tag/end-tag with the data in between
- Format (number of digits, characters allowed, etc.) defined by the DataType

DataTypes

Used for Business and Message Elements

Based on limited number of “Representations”

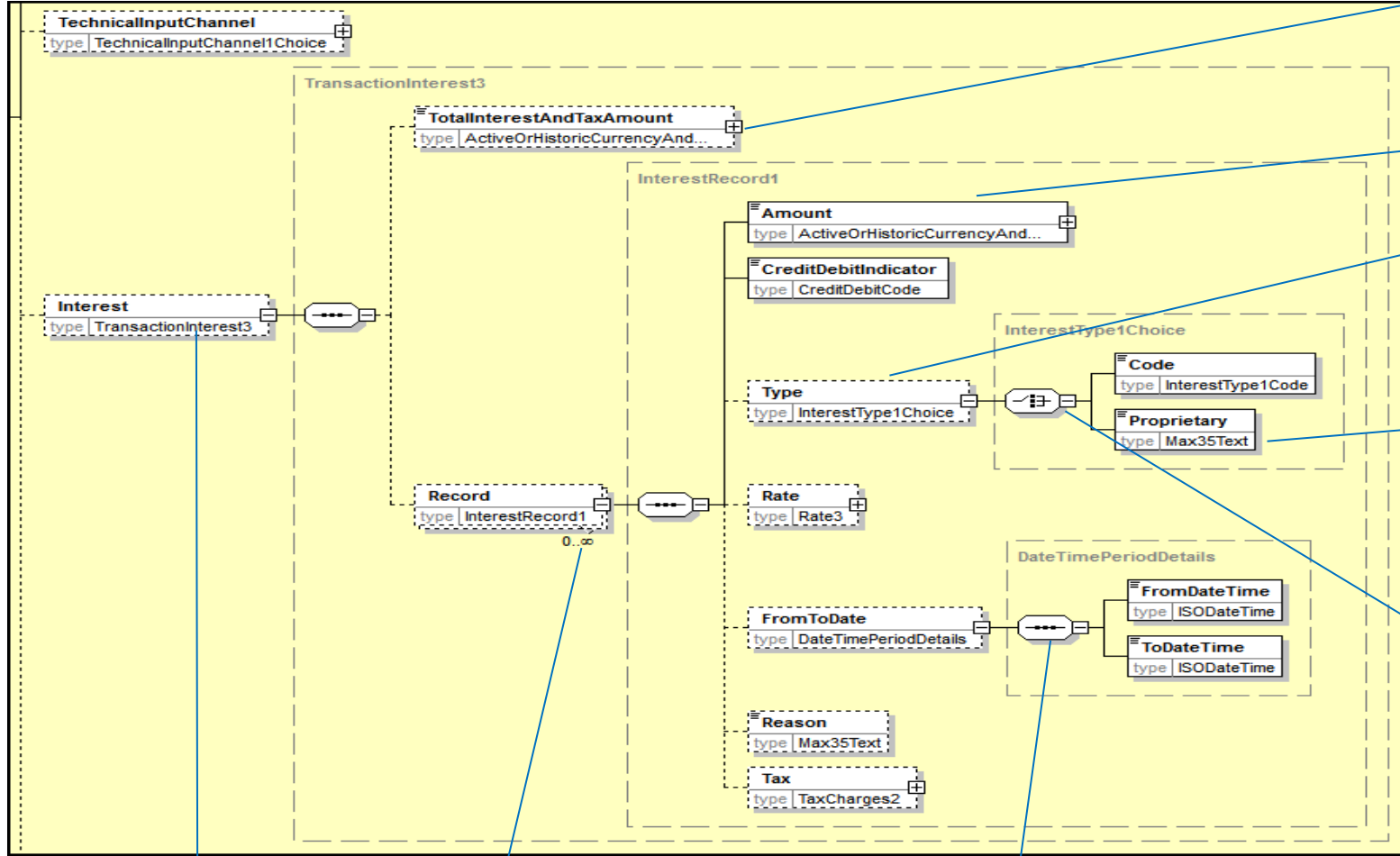
- Text, Quantity, Rate, Amount
- Indicator, Identifier, Code
- DateTime

Definitions

- Text: A character string that may be used to describe a concept or narrative information
- Quantity: A number of non-monetary units together with relevant supplementary information.
- Rate: A ratio between two values.
- Amount: A number of monetary units specified in a currency where the unit of currency is explicit or implied.
- Indicator : A boolean that may be used to express an alternative between 2 values.
- Identifier : A character string to identify and distinguish uniquely, one instance of an object in an identification scheme together with relevant supplementary information.
- Code: a character string (letters, figures or symbols) that for brevity and/or language independence may be used to represent or replace a definitive value or text of an attribute together with relevant supplementary information.
- DateTime: A particular point in the progression of time together with relevant supplementary information.



Understanding the message structure (Altova XML Spy)



Expand / Compress

Mandatory
(box with solid line)

Optional
(box with dotted line)

Datatype

Choice

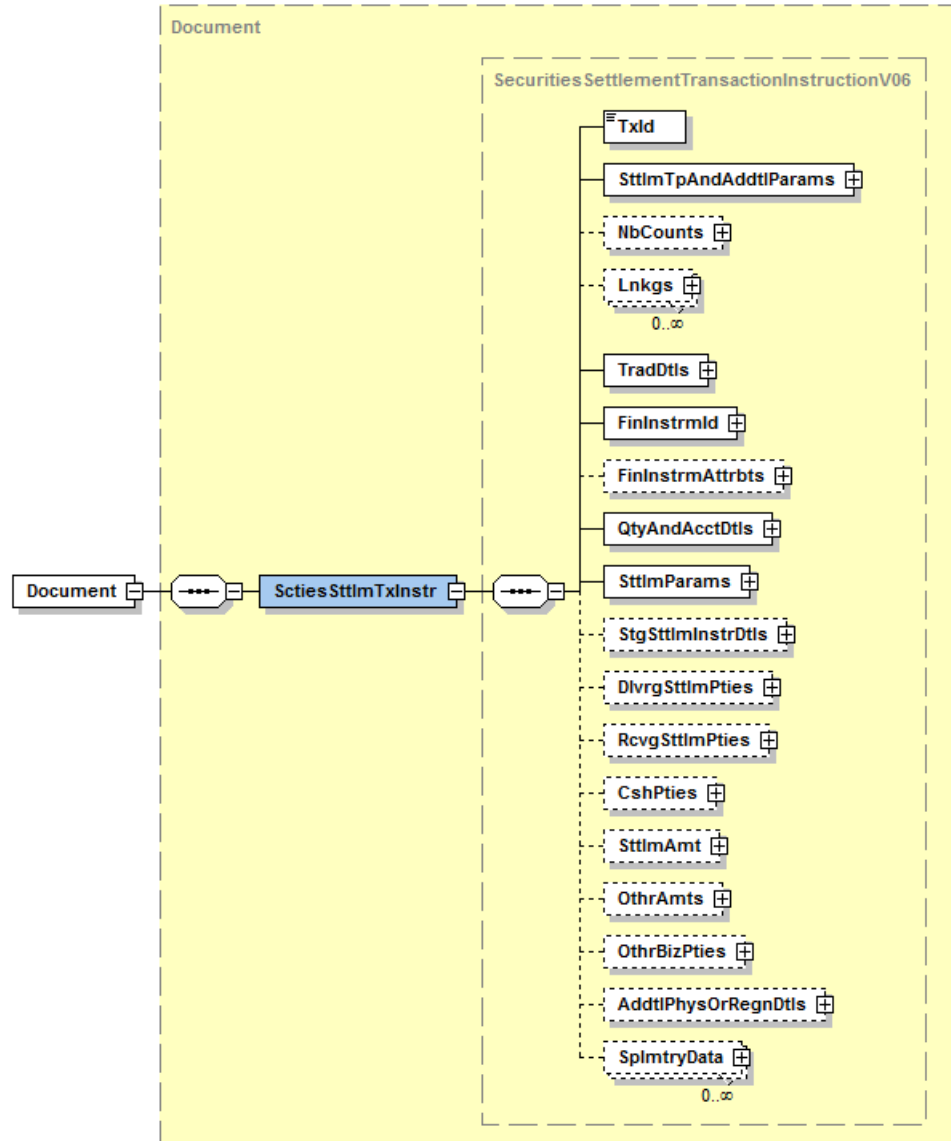
Component

Multiplicity

Sequence



sese.023 – Securities Settlement Transaction Instruction



Extract
Example



XML Message Sample – sese.023 (1/2)

```
<SctiesSttlmTxInstr>
```

```
<TxId>AGK0107</TxId>
```

```
<SttlmTpAndAddtlParams>
```

```
<SctiesMvmntTp>RECE</SctiesMvmntTp>
```

```
<Pmt>APMT</Pmt>
```

```
</SttlmTpAndAddtlParams>
```

```
<TradDtls>
```

```
<TradDt>
```

```
<Dt>
```

```
<Dt>2016-01-12</Dt>
```

```
</Dt>
```

```
</TradDt>
```

```
<SttlmDt>
```

```
<Dt>
```

```
<Dt>2016-01-14</Dt>
```

```
</Dt>
```

```
</SttlmDt>
```

```
<DealPric>
```

```
<Tp>
```

```
<ValTp>PARV</ValTp>
```

```
</Tp>
```

```
<Val>
```

```
<Rate>101.21</Rate>
```

```
</Val>
```

```
</DealPric>
```

```
</TradDtls>
```

```
<FinInstrmId>
```

```
<ISIN>GB0987654321</ISIN>
```

```
</FinInstrmId>
```

```
<QtyAndAcctDtls>
```

```
<SttlmQty>
```

```
<Qty>
```

```
<FaceAmt>400000</FaceAmt>
```

```
</Qty>
```

```
</SttlmQty>
```

```
<SfkpgAcct>
```

```
<Id>222S</Id>
```

```
</SfkpgAcct>
```

```
</QtyAndAcctDtls>
```

```
<SttlmParams>
```

```
<SctiesTxTp>
```

```
<Cd>TRAD</Cd>
```

```
</SctiesTxTp>
```

```
</SttlmParams>
```



XML Message Sample – sese.023 (2/2)

```
<DlvrgSttlmPties>
  <Dpstry>
    <Id>
      <AnyBIC>CRSTGB22</AnyBIC>
    </Id>
  </Dpstry>
  <Pty1>
    <Id>
      <PrtryId>
        <Id>45678</Id>
        <Issr>CRST</Issr>
      </PrtryId>
    </Id>
  </Pty1>
  <Pty2>
    <Id>
      <AnyBIC>COBADEFF</AnyBIC>
    </Id>
  </Pty2>
</DlvrgSttlmPties>
```

```
<SttlmAmt>
  <AcrdIntrstInd>true</AcrdIntrstInd>
  <Amt Ccy="GBP">404751.3</Amt>
  <CdtDbtInd>DBIT</CdtDbtInd>
</SttlmAmt>
```

```
</SctiesSttlmTxInstr>
```



ISO 20022

Business Message

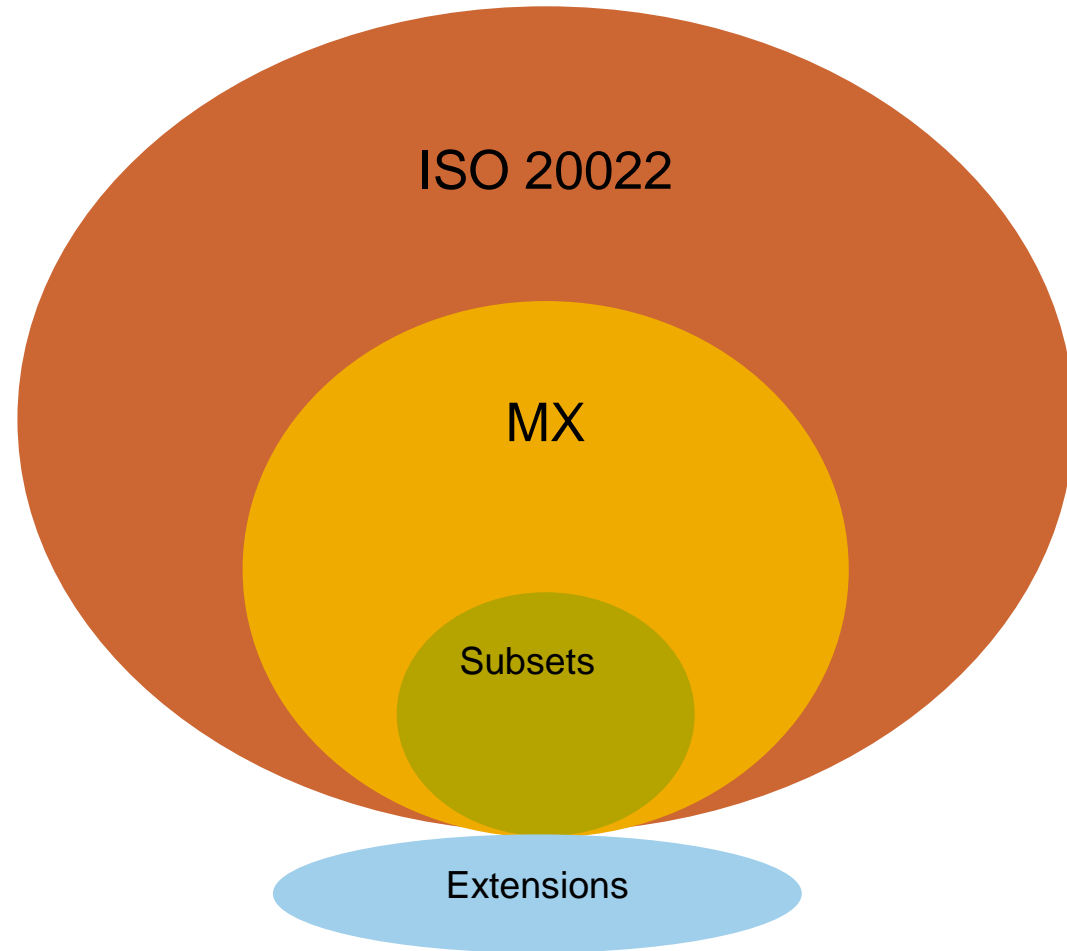
<BusMsg>



</BusMsg>

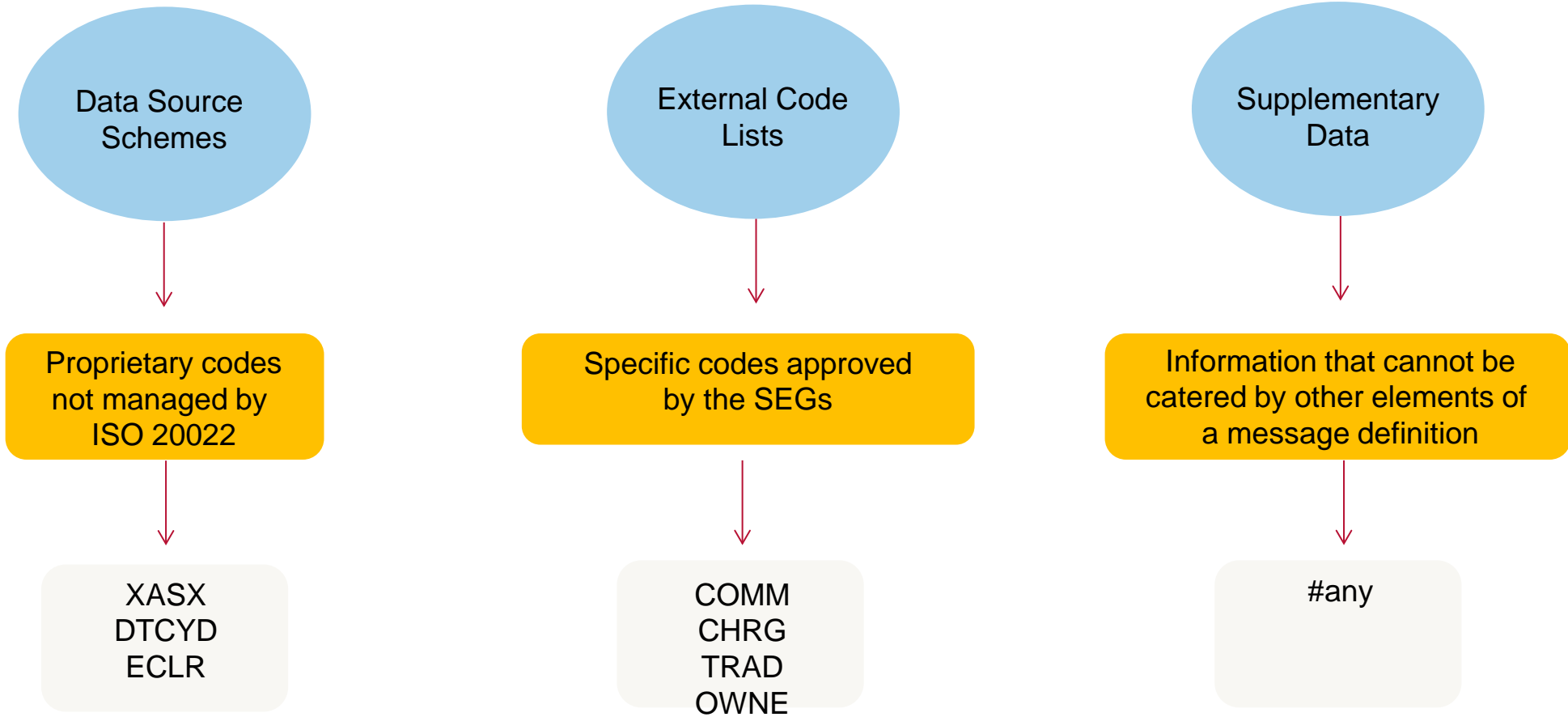


ISO 20022: Using Extensions



ISO 20022: Using Extensions

3 types



ISO 2022 and SWIFT standards

Complete portfolio of ISO 2022 standards

All relevant business domains

Registration authority

SWIFT is the golden source of ISO 2022 knowledge

Contributor to content

In-depth knowledge of models, data dictionary and messages

SWIFT has unparalleled expertise in ISO 2022 adoption

Supports communities with adoption

Contributes to market practice groups

Insights into global adoption


SWIFT has tools and services for standards & market practice management

MyStandards & Readiness Portal




ISO 20022

www.iso20022.org



ISO 20022
Universal financial industry message scheme

- About ISO 20022
- Catalogue of messages
- Financial repository
- Development & maintenance
- Contact us




ISO 20022
FREE AND OPEN STANDARD

ANYONE ANYWHERE CAN ADD THEIR TWO CENTS TO THE DICTIONARY

Learn more about ISO 20022


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



ISO 20022 for Dummies

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ISO 20022 newsletter
Summer 2015

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ISO 20022 message dashboard

The ISO 20022 message dashboard gives an overall picture of the five financial business domains in scope of ISO 20022. Its purpose is to show which business processes are already supported either by existing ISO 20022 message definitions or by candidate message definitions covered by an approved Business Justification.

<p>Payments</p> <p>Messages supporting cash account management, payments initiation, clearing and settlement, and cash management, etc.</p> <p>Read more</p>	<p>Securities</p> <p>Messages supporting pre-trade, trade, post-trade, clearing and settlement, securities management, securities account management, reconciliation, asset servicing, collateral management, etc.</p> <p>Read more</p>	<p>Trade Services</p> <p>Messages supporting procurement, trade finance products and services, forecasting, reconciliation, accounting, remittance information, etc.</p> <p>Read more</p>
<p>Cards</p> <p>Messages supporting card transactions between acceptor and acquirer, acquirer and issuer, sale system and POI, terminal management, clearing and settlement, fee collection, etc</p> <p>Read more</p>	<p>FX</p> <p>Messages supporting pre-trade, trade, post-trade, notification, clearing and settlement, reporting and reconciliation of FX products</p> <p>Read more</p>	

News | Latest Documents

Cards - New ISO 20022 messages for processing and management of ATM are registered and published
Aug 31, 2015

The first set of messages related to the processing and management of Automated Teller Machines is now available

[Read more](#)

The Summer 2015 edition of the ISO 20022 Newsletter is out!
Aug 10, 2015

Volume 7, Issue 1

[Read more](#)

The new Factoring Services messages are now available
Apr 30, 2015

11 new ISO 20022 messages definitions - Trade Services

[Read more](#)



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