



# Standards Overview

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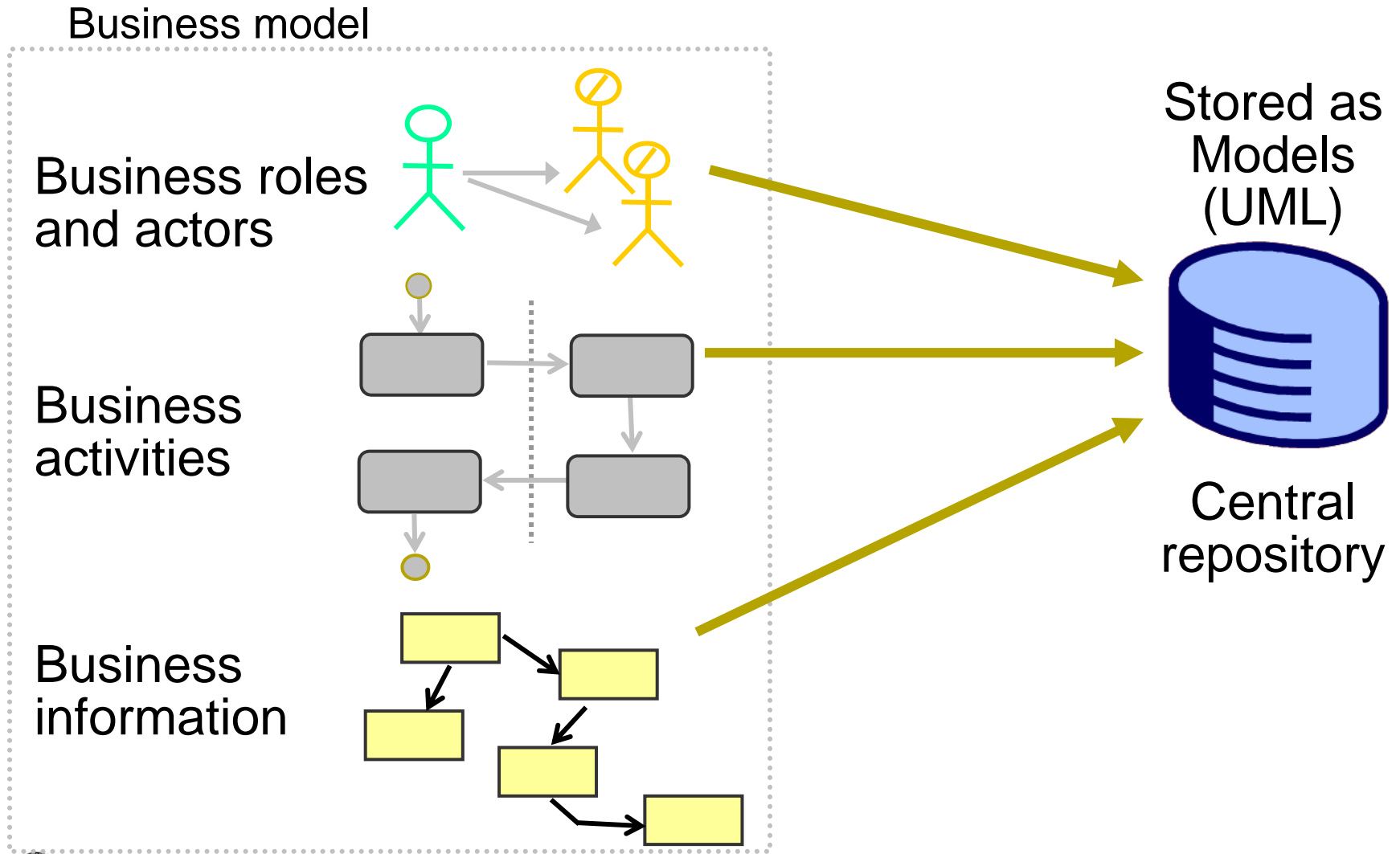
28 May 2009

# ISO and SWIFT Standards

	Securities	Other markets
2000s	ISO 20022 (Investment Funds, Cash Reporting, Bulk Payments (SEPA), Trade Services Utility, etc...)	
90s	ISO 15022 (syntax = enhanced FIN, such as MT 502, MT 54x)	Traditional FIN (eg MT 103, MT 202)
80s	ISO 7775 (syntax = traditional FIN, such as MT 500)	Traditional FIN (eg MT 100, MT 200, MT 300)
70s		



# Business process modelling methodology



# 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 message schemas

[www.iso20022.org](http://www.iso20022.org)



# XML – an example

## XML Syntax

```
<OrderDetails>
  <FinancialInstrumentIdentification>
    <ISIN>GB9999999999</ISIN>
  </FinancialInstrumentIdentification>
  <PriceDetails>
    <Type>DEAL</Type>
    <Value>
      <Unit Ccy = "GBP">16</Unit>
    </Value>
  </PriceDetails>
  <Quantity>
    <UnitsNumber>500</UnitsNumber>
  </Quantity>
  <ExpiryDateTime>
    <Date>2006-08-31</Date>
  </ExpiryDateTime>
  <TradingParties>
    <Buyer>PEFIGB22</Buyer>
```

....



## ISO 15022 Syntax

```
:16R:ORDRDET
:16R:PRIC
:90B::DEAL//ACTU/GBP16,
:16S:PRIC
:22H::BUSE//BUYI
:22H::PAYM//APMT
:98A::EXPI//20060831
:16R:TRADPRTY
:95A::BUYR//PEFIUS22
:16S:TRADPRTY
:36B::ORDR//UNIT/500
:35B:ISIN GB9999999999
:16S:ORDRDET
```

*XML syntax is easier to read than FIN syntax*

# XML – an example

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```

*Instead of 35B we have  
Financial Instrument  
Identification*



# XML – an example

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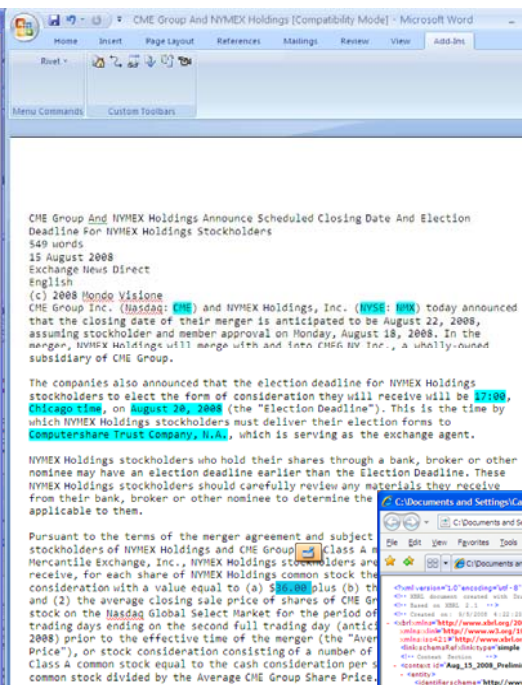
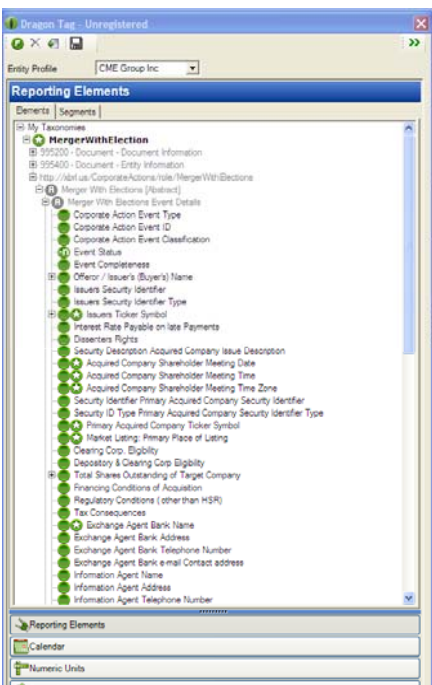
*XML is*

*... a meta-language that describes the way data is formatted and communicated*

*... a syntax*

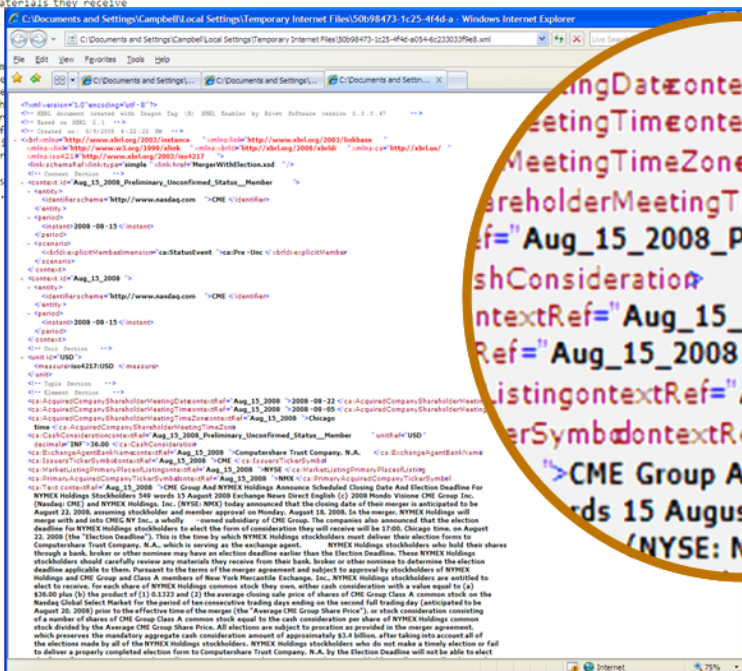


# XBRL



## XBRL

- The issuer / agent / publisher will highlight and tag all relevant data elements within MS Word as they are writing the press release or prospectus
- The electronically tagged data elements are stored as fields within the pdf document, and this fielded data is easily extracted when it is 'read'



## XBRL

- XBRL tagged documents can provide an electronic message for consumption by the Financial Services Industry

