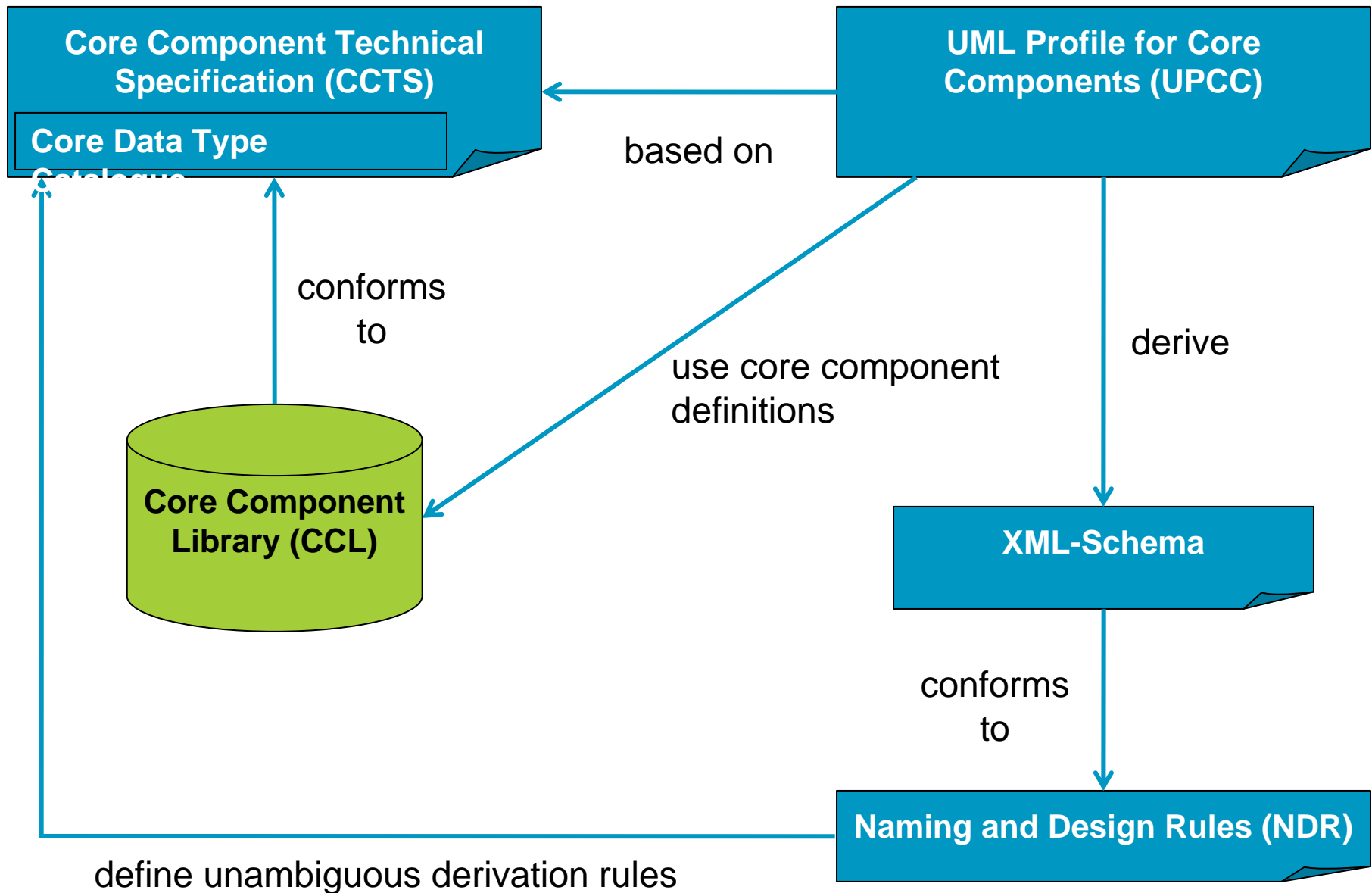# Part 5 – UN/CEFACT's Core Component Library

Research Studio Inter-Organisational Systems
Project Public Private Interoperability

Agenda

- UN/CEFACT's Core Component Library
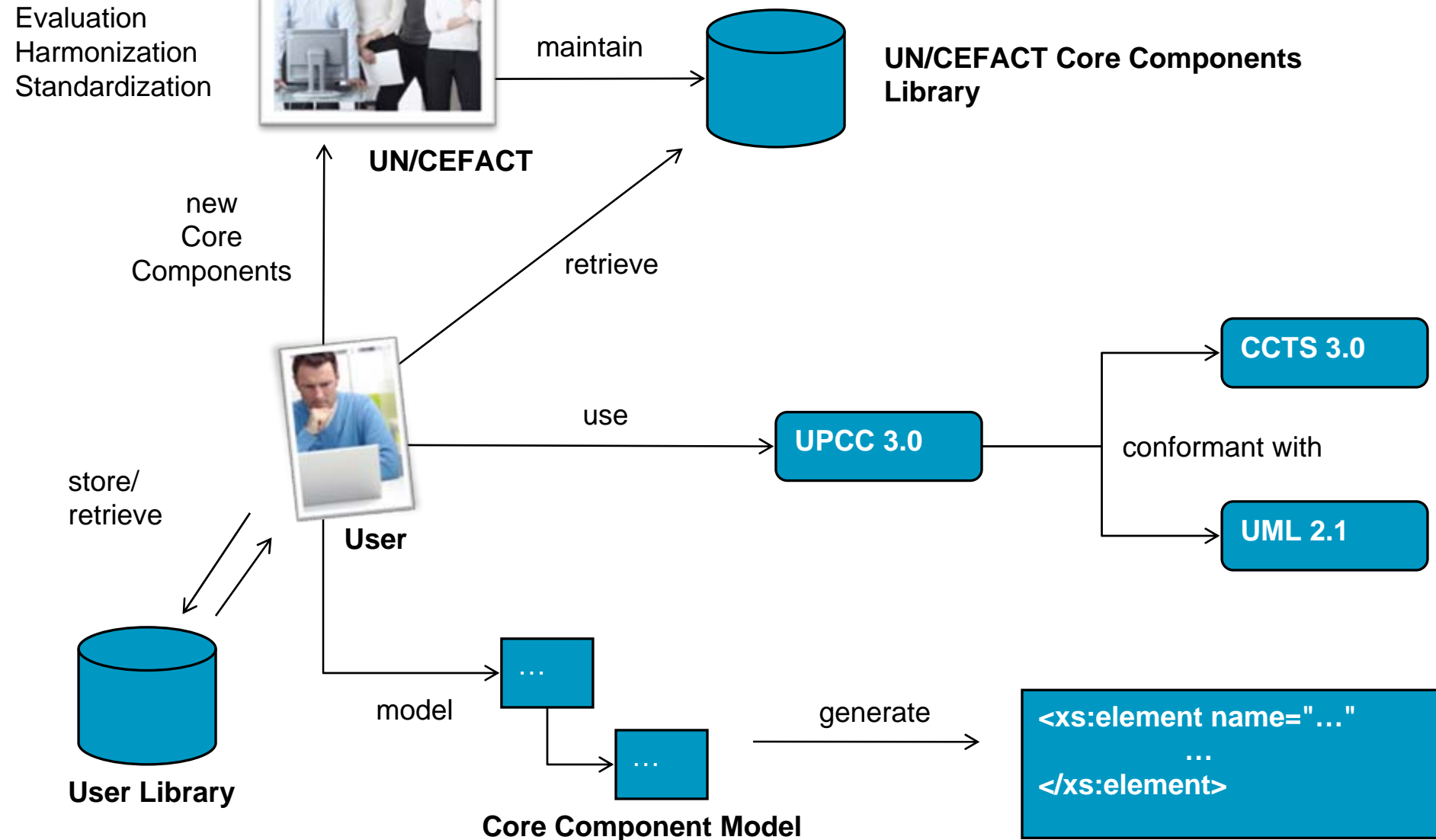 - Introduction
  - Registry federation concepts

Overview of Core Component related UN/CEFACT specifications

r s a

Core Component Technical Specification (CCTS)

Core Data Type Catalogue

UML Profile for Core Components (UPCC)

based on

conforms to

derive

use core component definitions

Core Component Library (CCL)

XML-Schema

conforms to

Naming and Design Rules (NDR)

define unambiguous derivation rules

UN/CEFACT's Core Component Library (CCL) at a glance

- Standardized set of Core Components and Business Information Entities

- New versions of the CCL are usually released twice a year

- Most recent version: **CCL 09A** provided in two parts:

- UN/CEFACT Message components Library

  - Includes parts of the CCL as audited by the Information Content Management Group (ICG) which support the development of UN/CEFACT Messages by the Applied Technology Group (ATG).

- UN/CEFACT Reference Components Library

  - All parts of the CCL, including the UN/CEFACT Message Components Library, as harmonized by the International Trade and Business Processes Group (TBG).
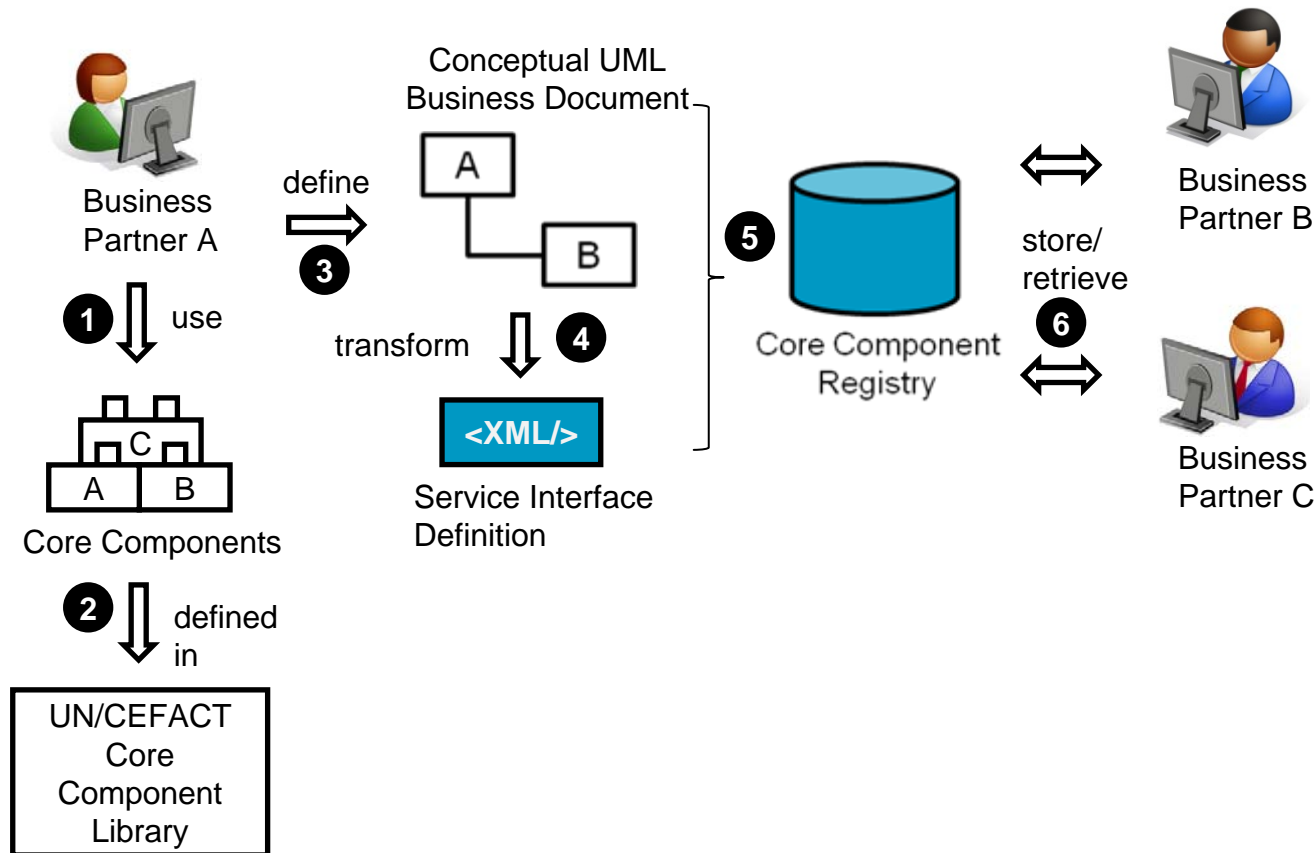
Working with core components

rsa

Evaluation
Harmonization
Standardization

maintain

UN/CEFACT Core Components Library

UN/CEFACT

new
Core
Components

retrieve

CCTS 3.0

use

UPCC 3.0

conformant with

store/
retrieve

User

UML 2.1

model

...

...

generate

User Library

Core Component Model

```
<xs:element name="…"
        …
</xs:element>
```

Cut-out from the latest Core Component Library (CCL09A)

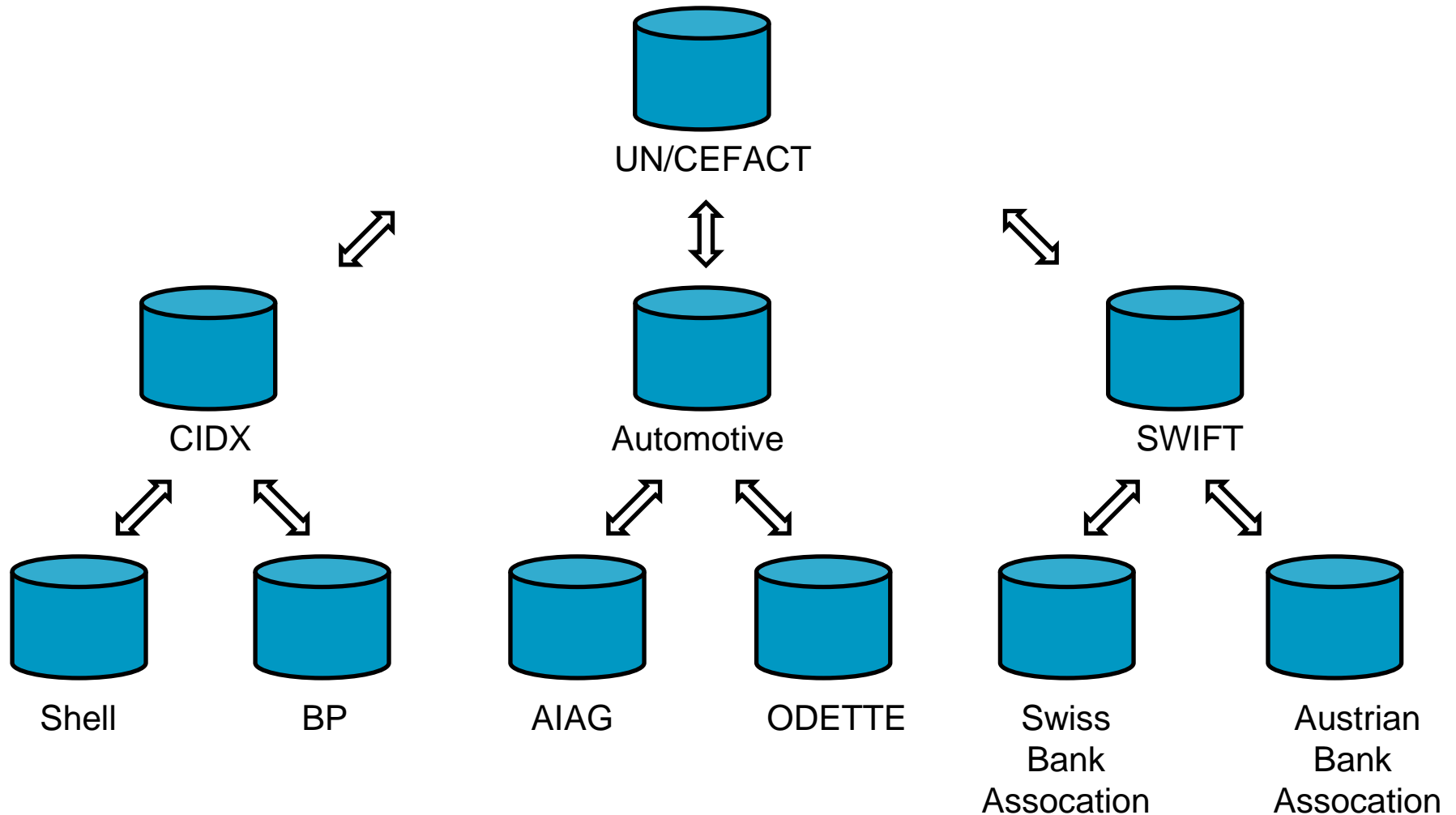|					
64	UN00002206	ACC	Accounting Voucher. Details	A document that assesses the reality of an operation, authenticates its conclusion and is used in accounting entry recording and for audit control matters.	
65	UN00002207	BCC	Accounting Voucher. Storage Location. Text	The storage location, expressed as text, for his accounting voucher.	
66	UN00002208	BCC	Accounting Voucher. Receiving Department. Text	The receiving department, expressed as text, for this accounting voucher.	
67	UN00002209	BCC	Accounting Voucher. Identification. Identifier	The unique identifier for this accounting voucher.	
68	UN00002210	BCC	Accounting Voucher. Medium. Code	The code specifying the medium for this accounting voucher, such as VAN, Internet, Optical Disk, DVD, CD-Rom, USB Key, EDI, ebXML, or paper.	
69	UN00002213	BCC	Accounting Voucher. Tax Point. Date Time	The date, time, date time, or other date time value of the tax point for this accounting voucher.	
70	UN00002214	BCC	Accounting Voucher. Imported File. Identifier	The unique identifier for the imported file containing this accounting voucher, such as in the case of an accounting system migration.	
71	UN00003223	BCC	Accounting Voucher. Attachment. Binary Object	A binary object that is attached or otherwise appended to this accounting voucher.	
72	UN00002215	ASCC	Accounting Voucher. Related. Document	A document related to this accounting voucher.	
73	UN00002216	ACC	Add On Coverage. Details	A coverage which is added on to a policy but is provided by a different insurer/risk bearer.	
74	UN00002217	BCC	Add On Coverage. Insurer Class. Code	The code specifying the insurer class of the add-on coverage, such as legal expense insurer,	

Shortcomings of the Core Component Library

- Core Component Library is based on a Microsoft Excel-Sheet

- **Integration** into Core Component Modeling tools is **difficult**

- **No efficient storage and retrieval** or Core Component artifacts possible

- **No Core Component versioning**

- To overcome these limitations the Information Content Group (ICG) currently develops the **UN/CEFACT Registry Specification**

  - **However, no core component registry implementation exists as of today**

Motivation for a Core Component Registry

Federated Registry Approach

Thank you for your attention

```xml
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    <Contact>
        <Email>office.ios@resarchstudio.at</Email>
        <Http>http://www.researchstudio.at</Http>
    </Contact>
    <? Presentation status="questions" ?>
</Lecturer>
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