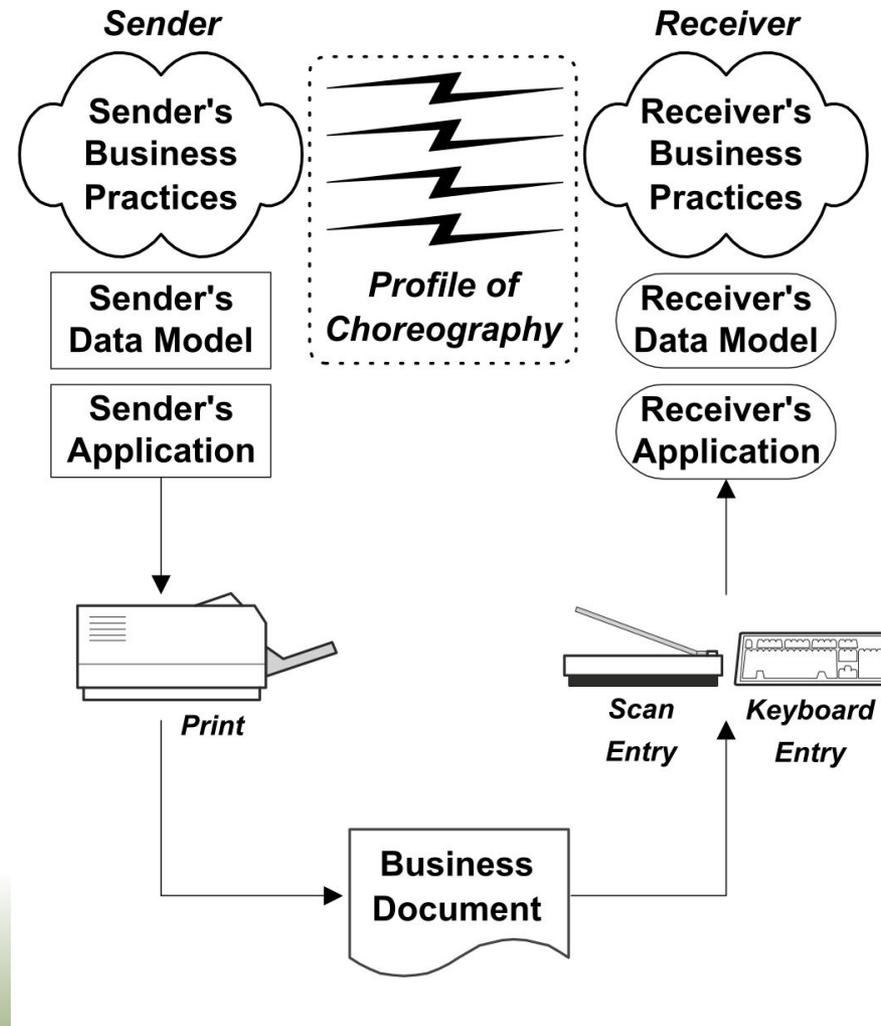


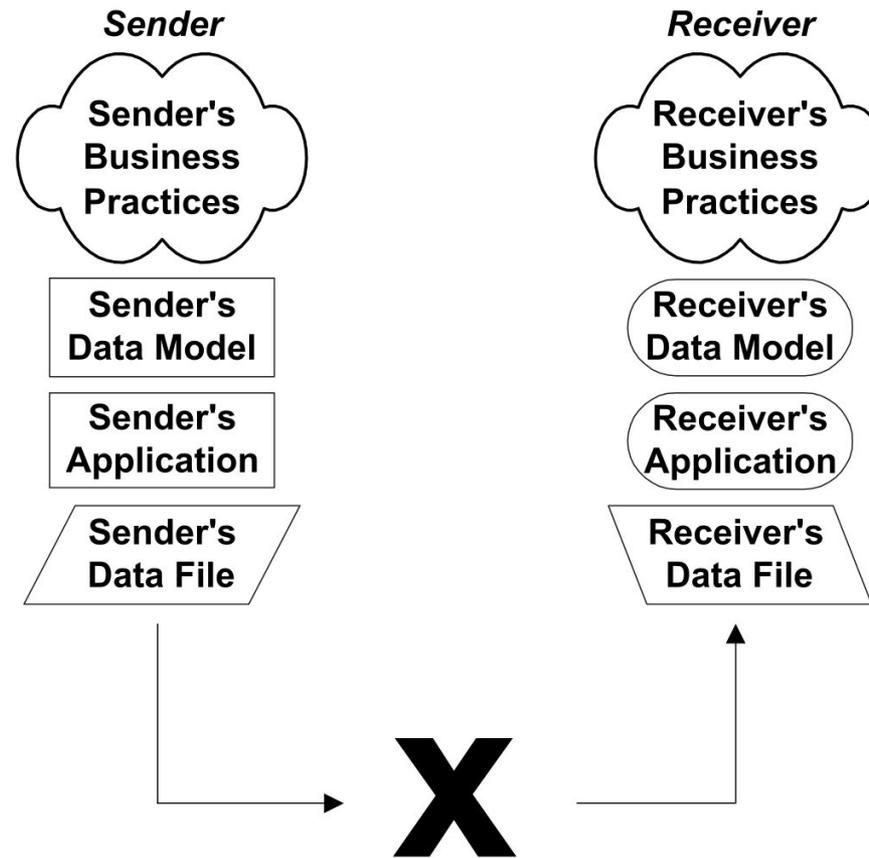
Case study of a semantic library underpinning the four-corner model for document exchange

G. Ken Holman

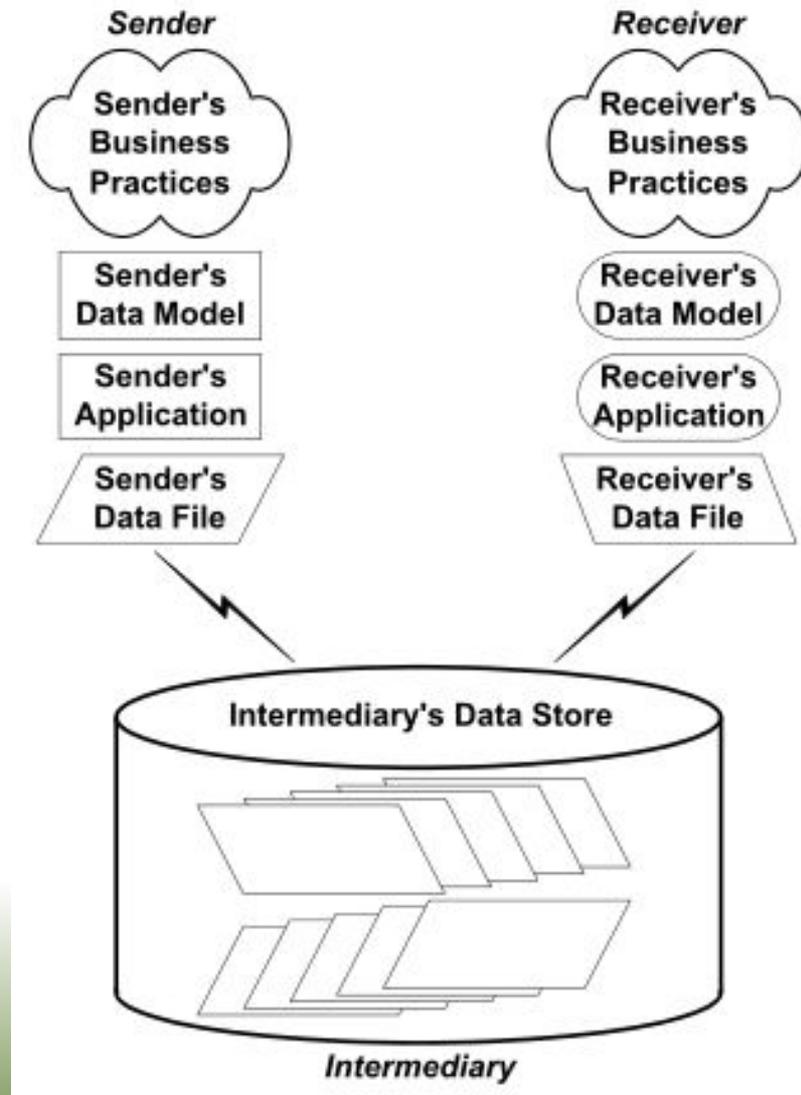
Historical use of paper interchange of document information



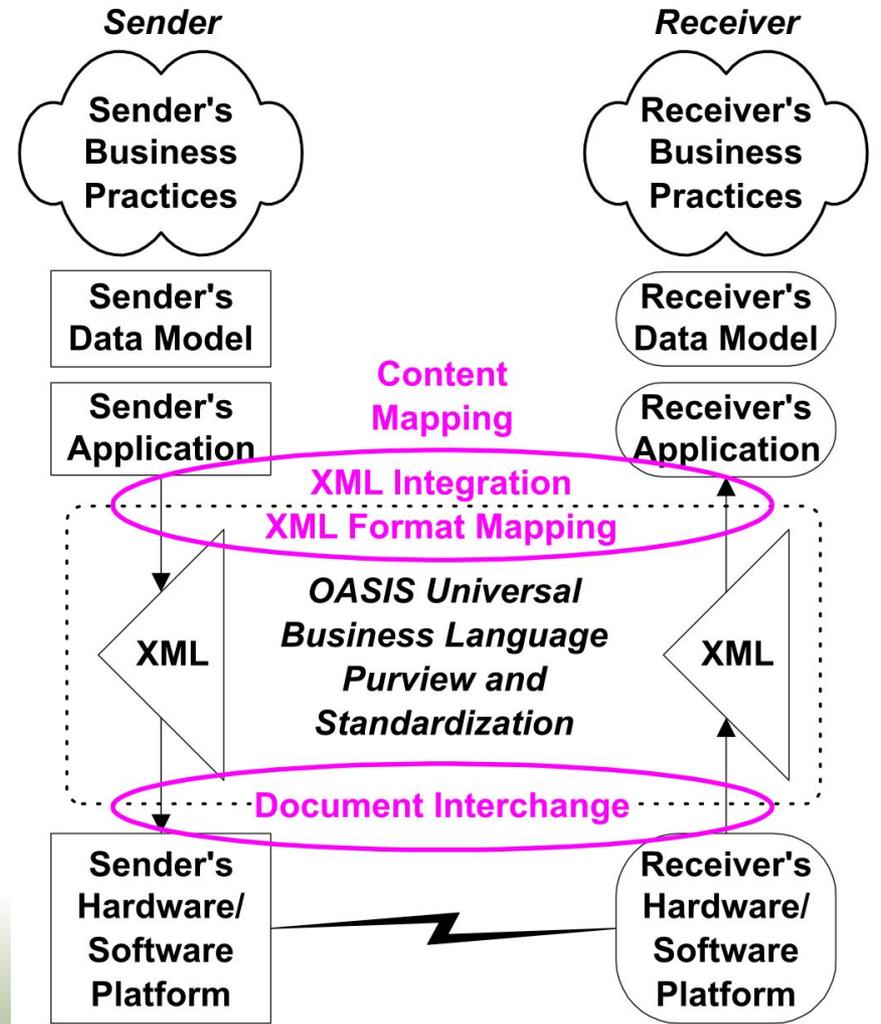
Impedance in document exchange electronic formats



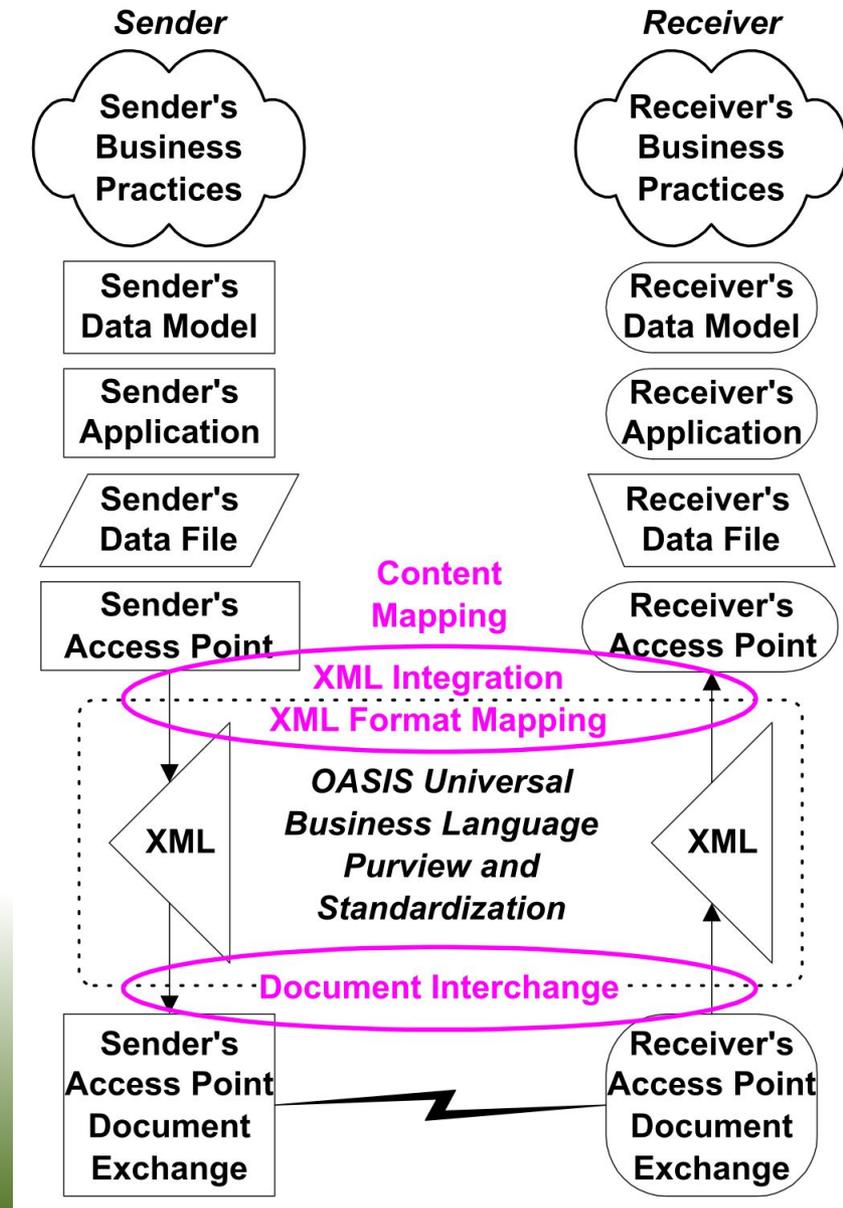
Impedance delegated to a common third party intermediary



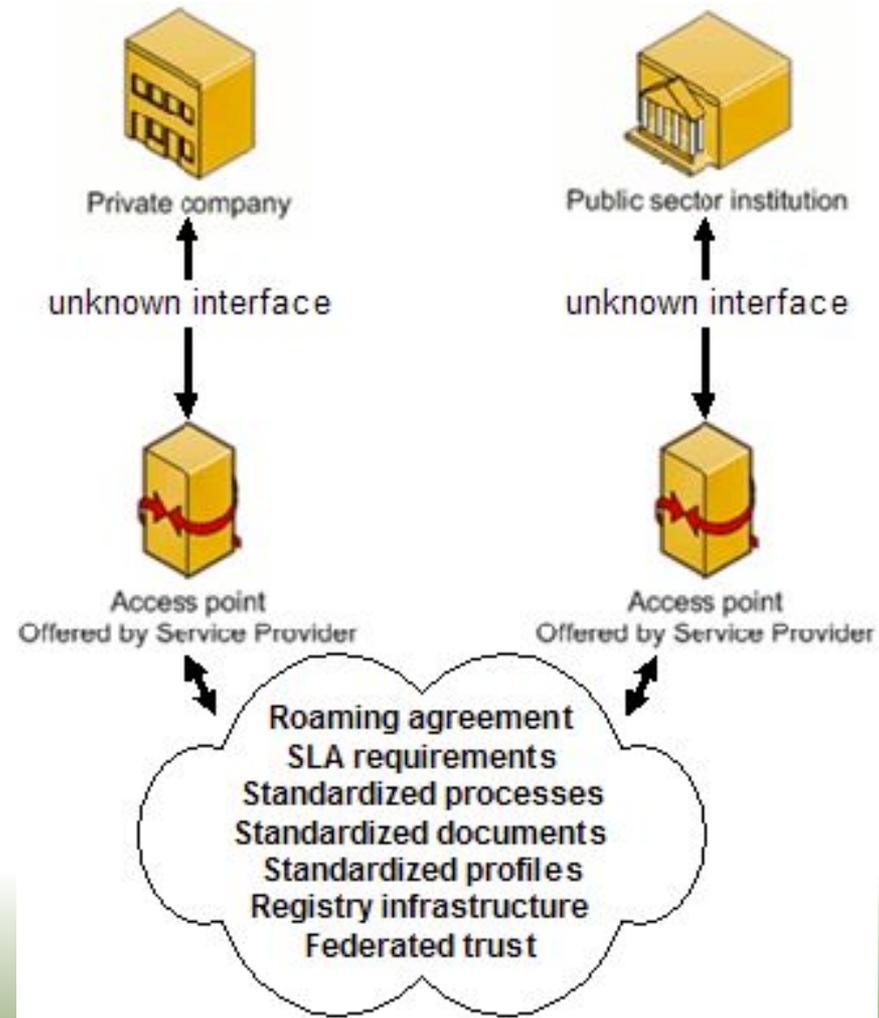
Mapping content to a common format for interchange



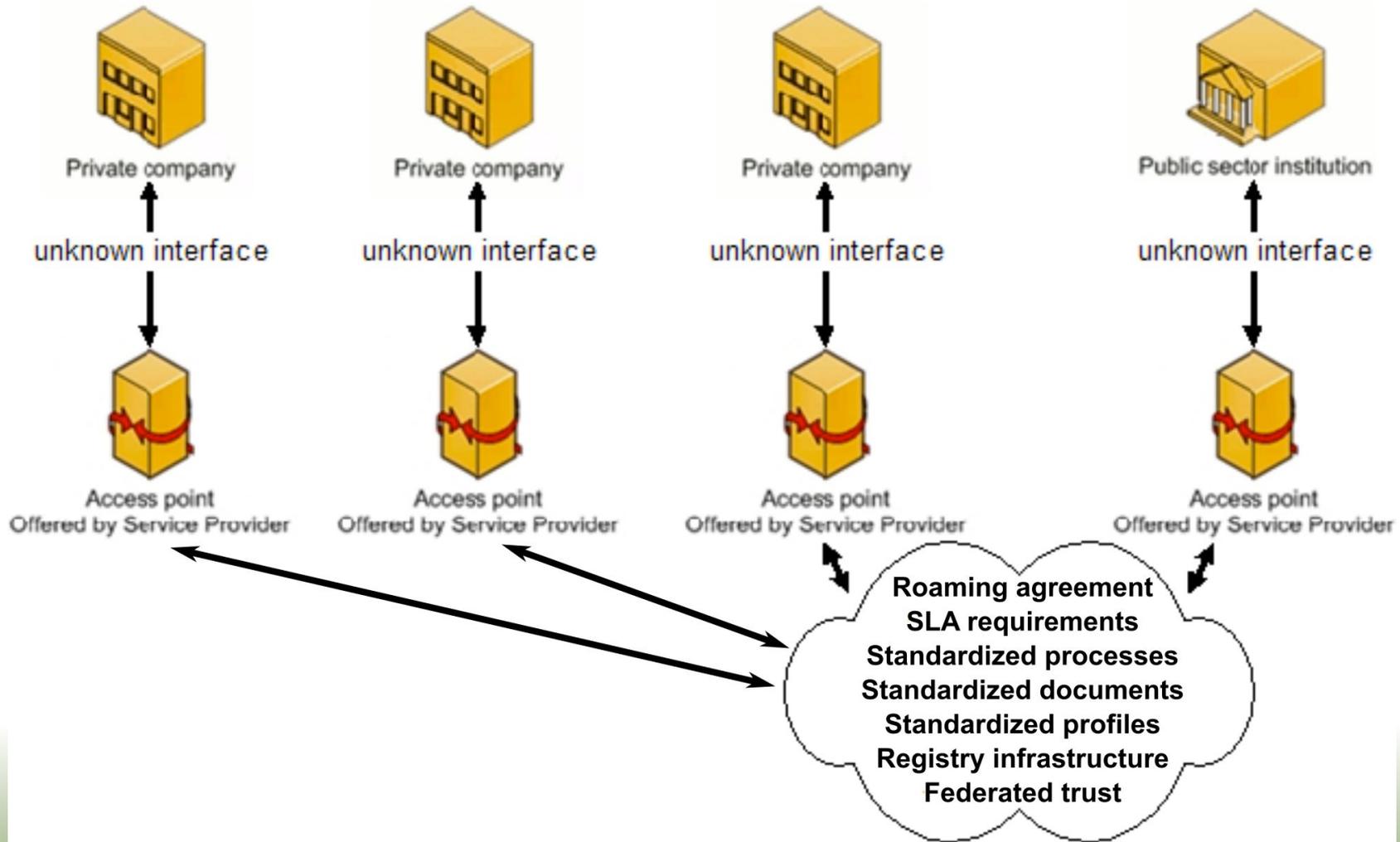
Delegation of content mapping and interchange



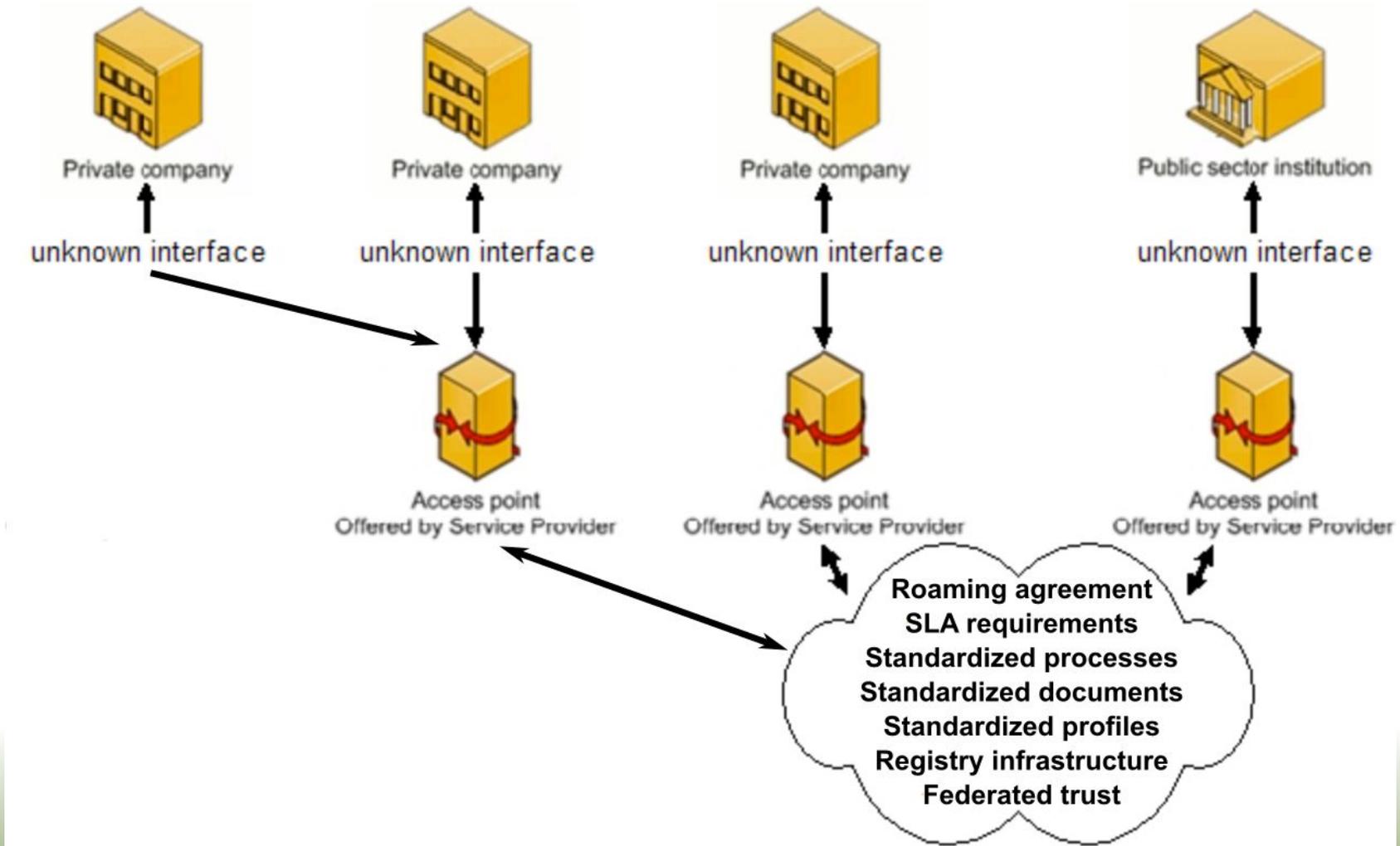
Peppol overview of peer-to-peer network definition



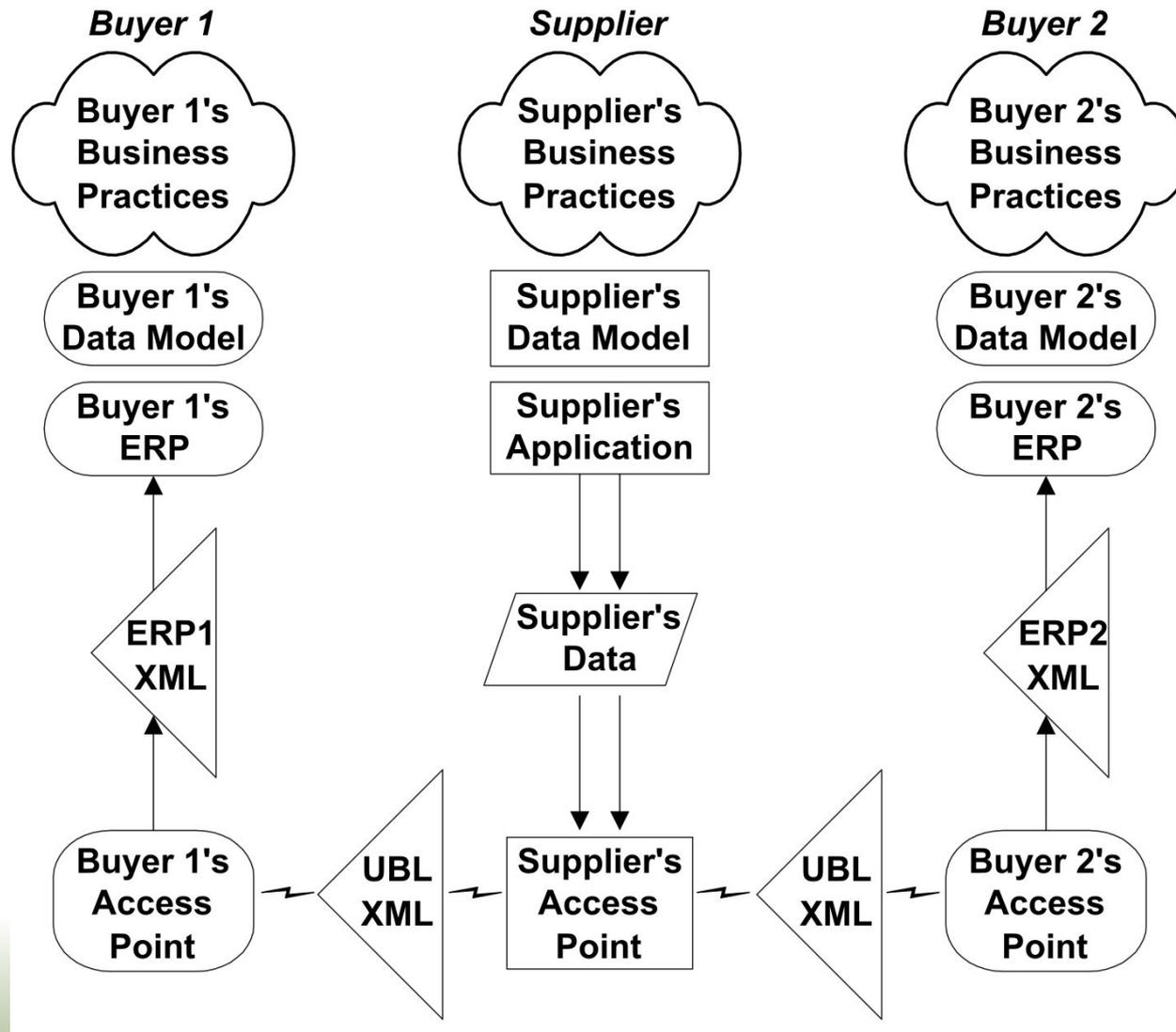
Effortlessly expandable peer-to-peer network



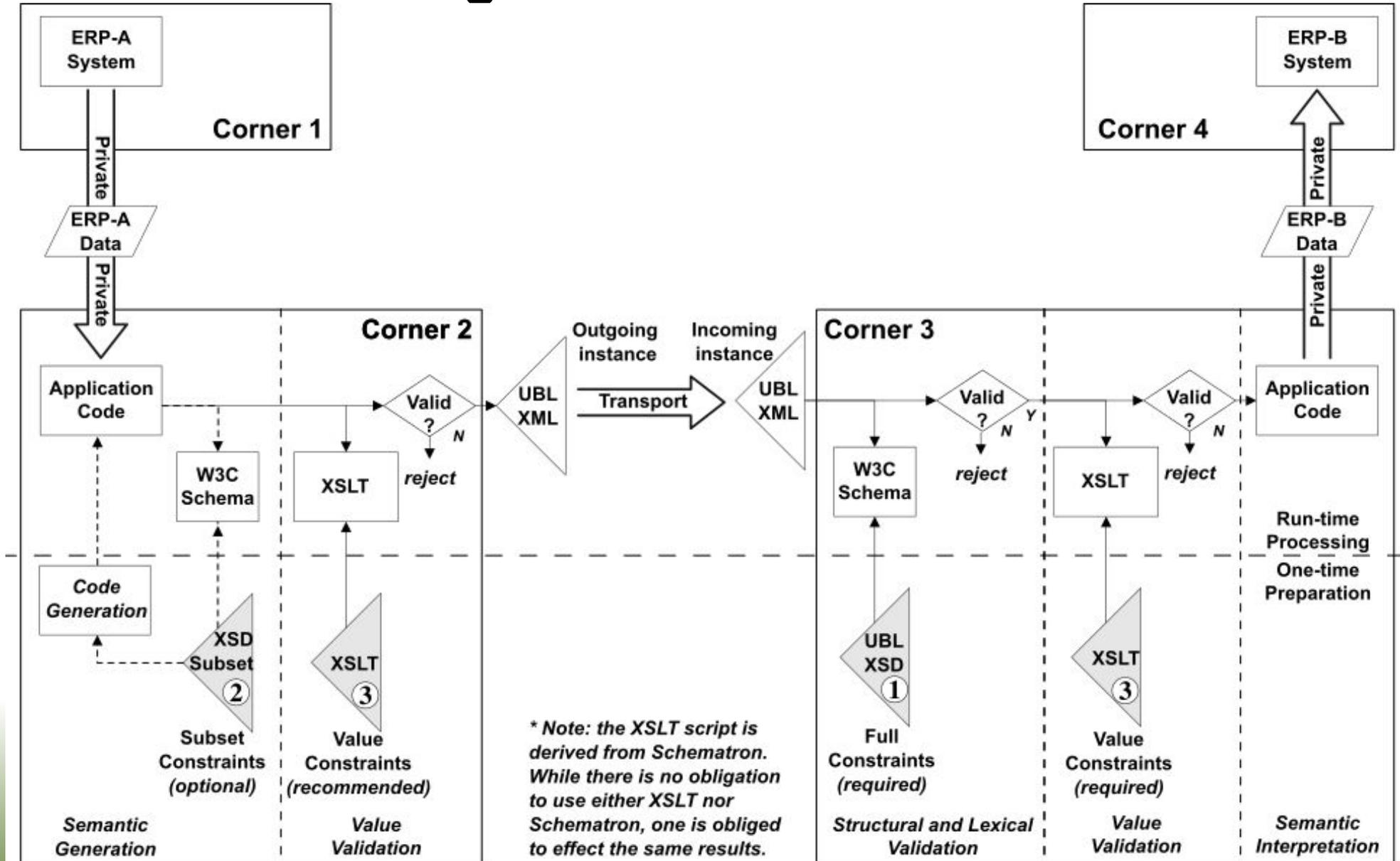
Trading partners can change access point providers at any time



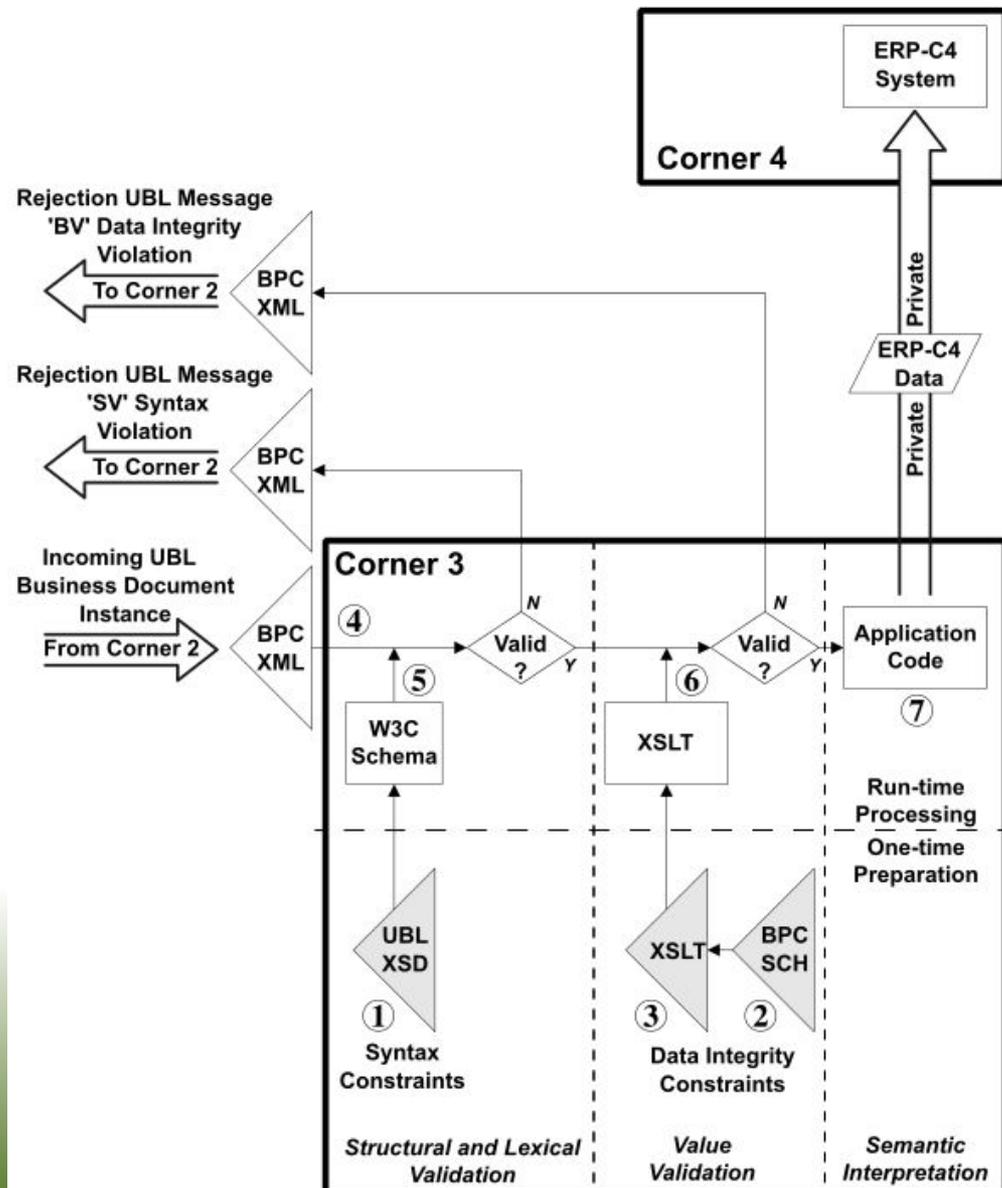
Interchange with one means interchange with all



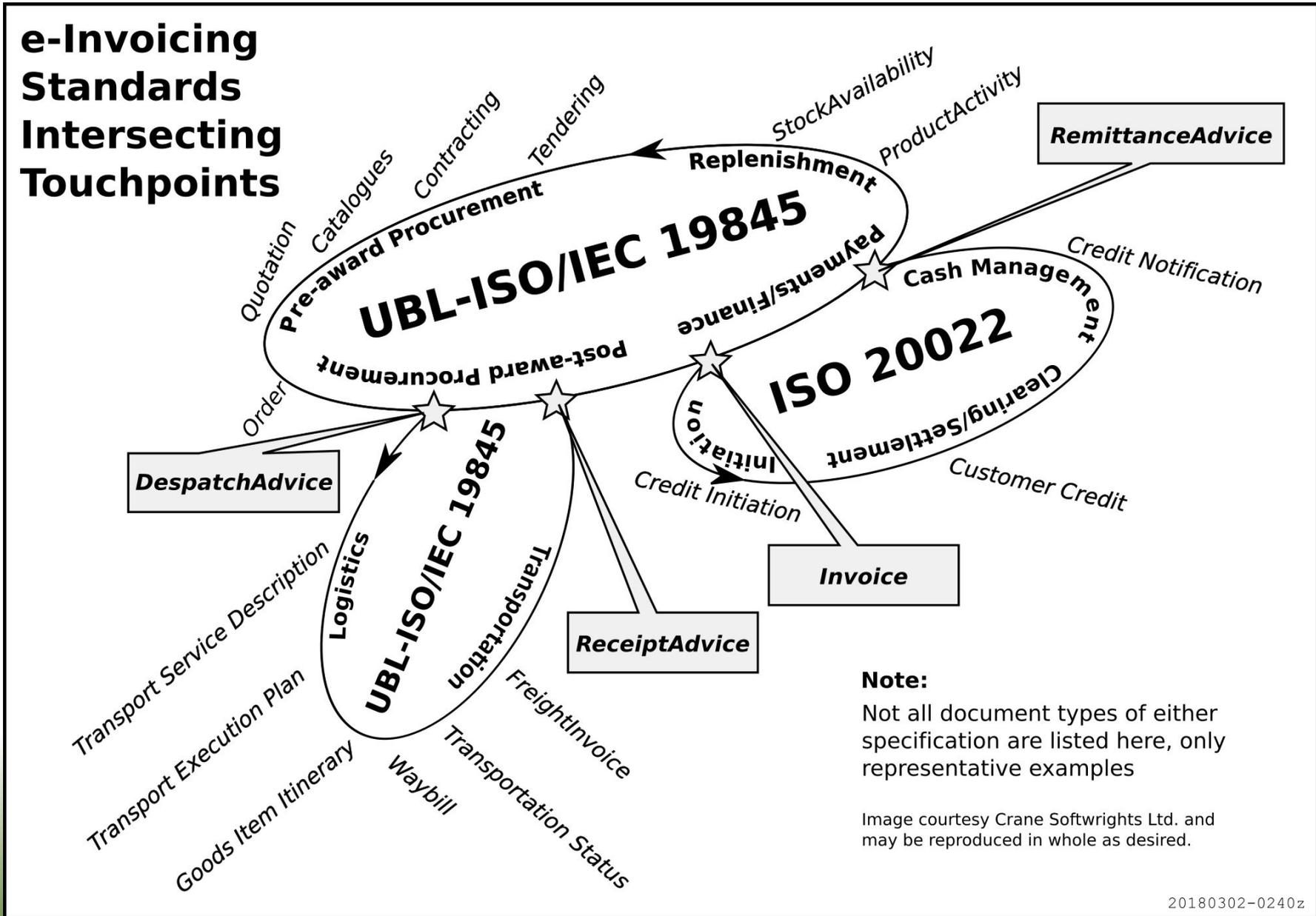
Looking inside the four corners



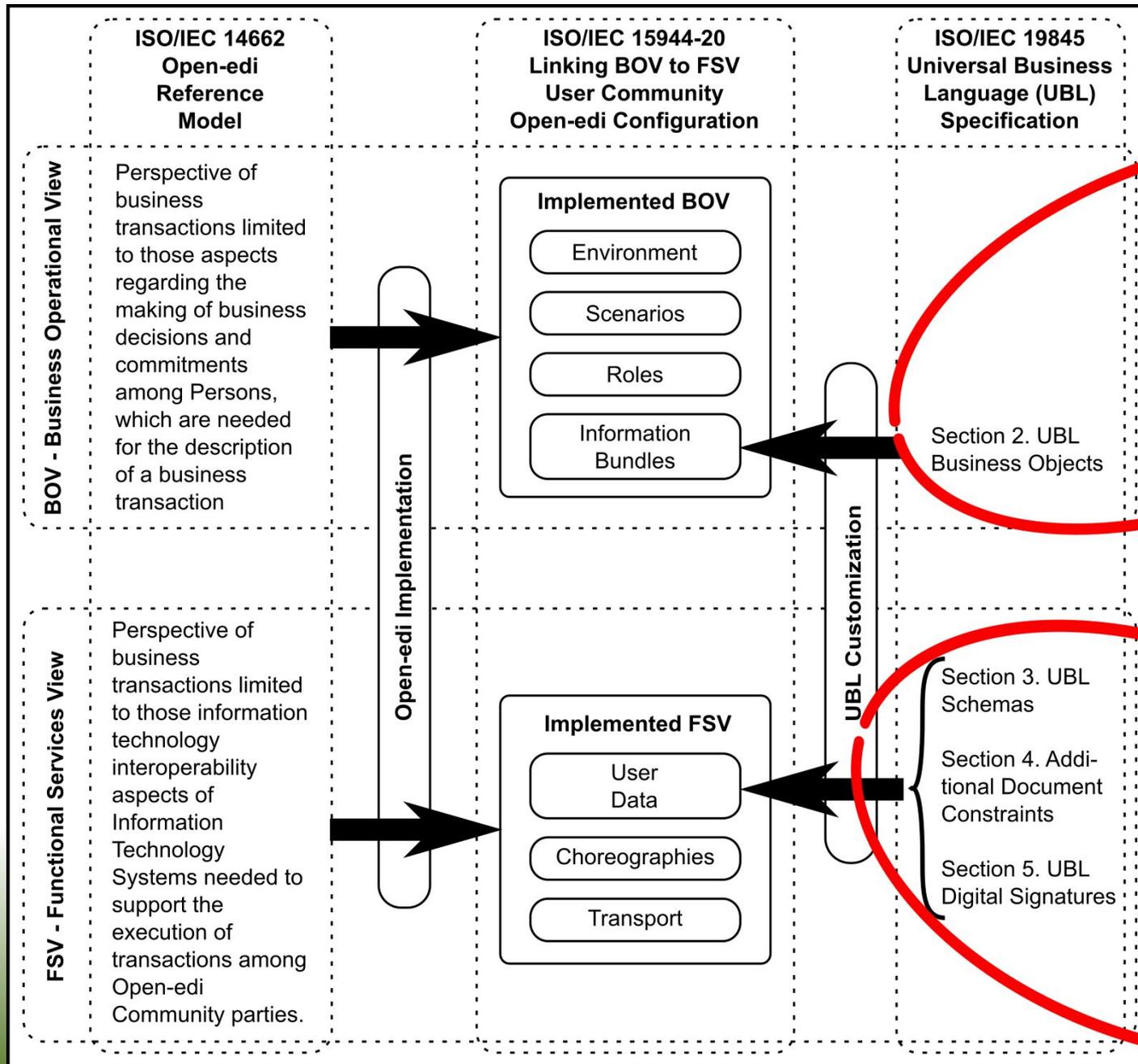
Detail of Corner 3 tasks upon receipt of the interchange document



A semantic library for business documents



A standards-based view of the UBL context

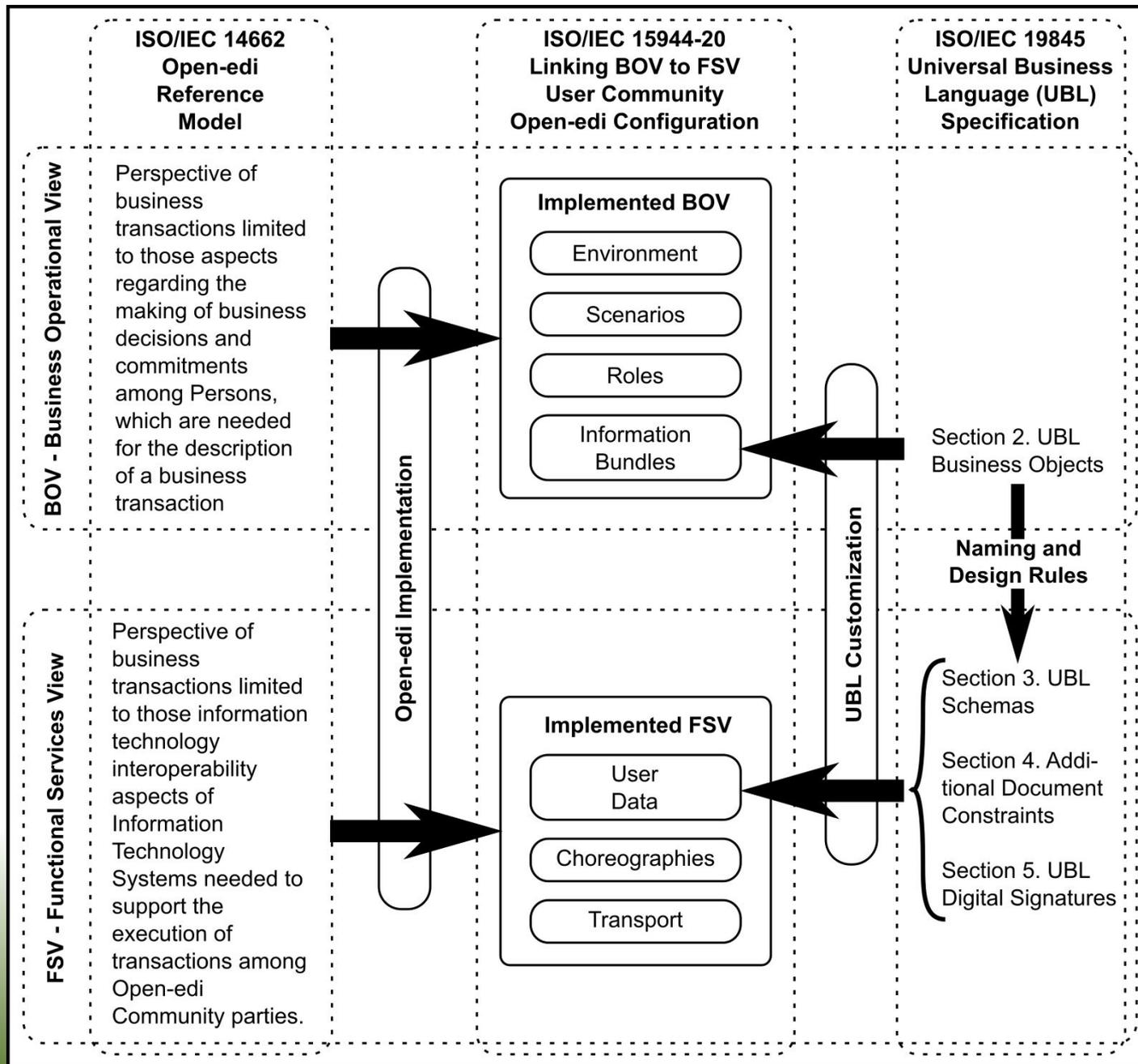


Semantics (meaning)

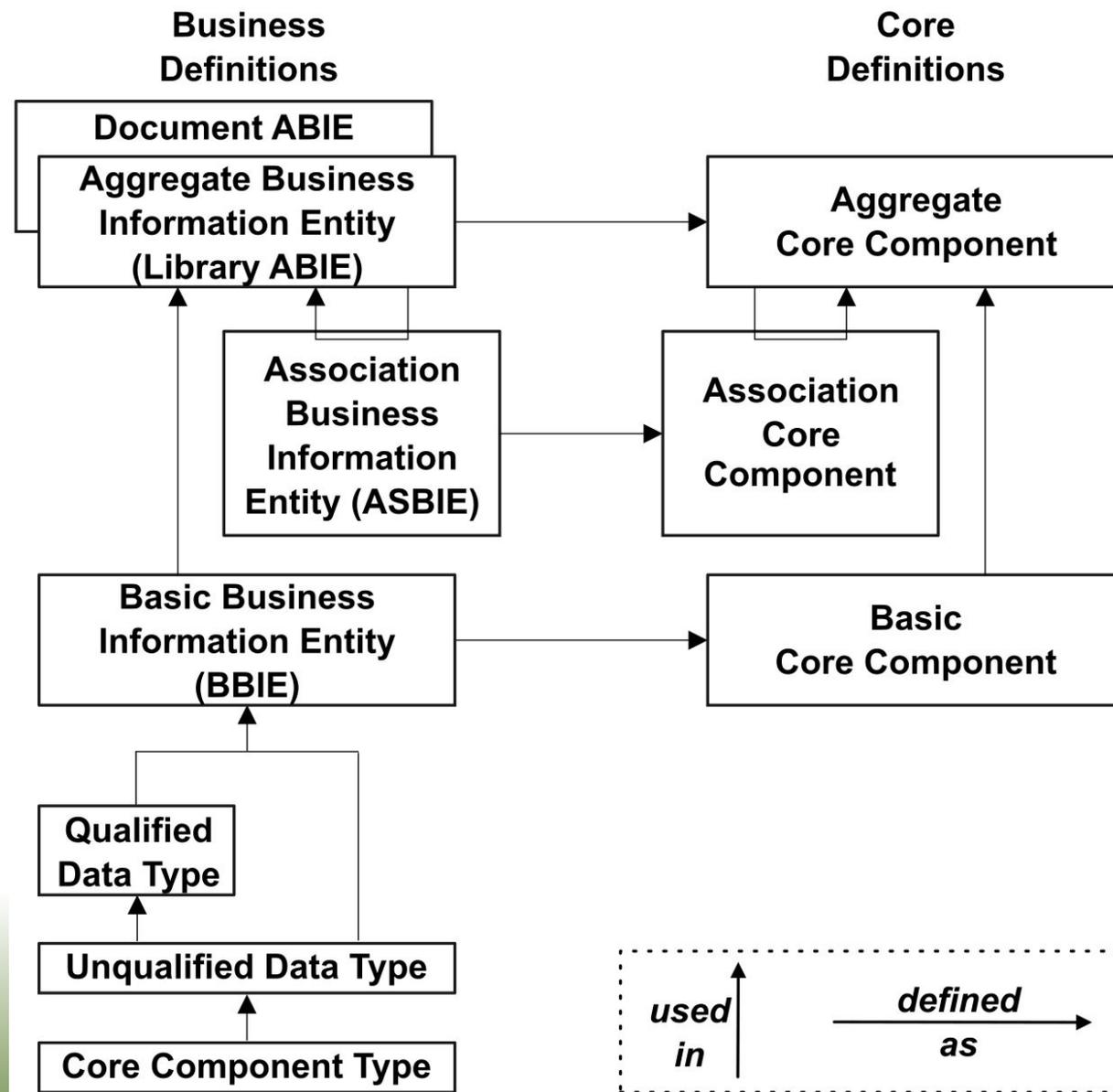
Syntax (format)



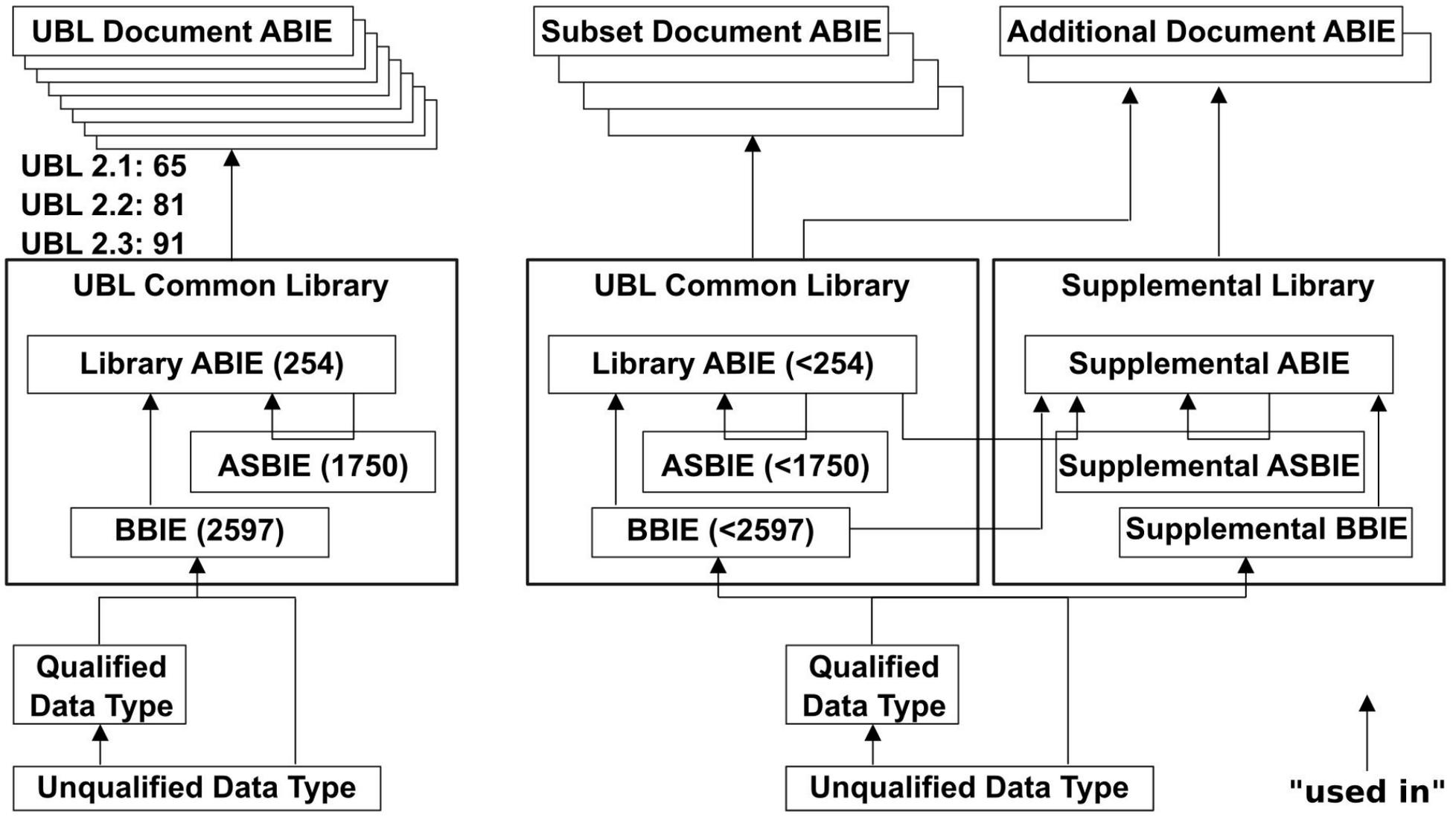
A standards-based view of the UBL context



Core Component Technical Specification (CCTS)



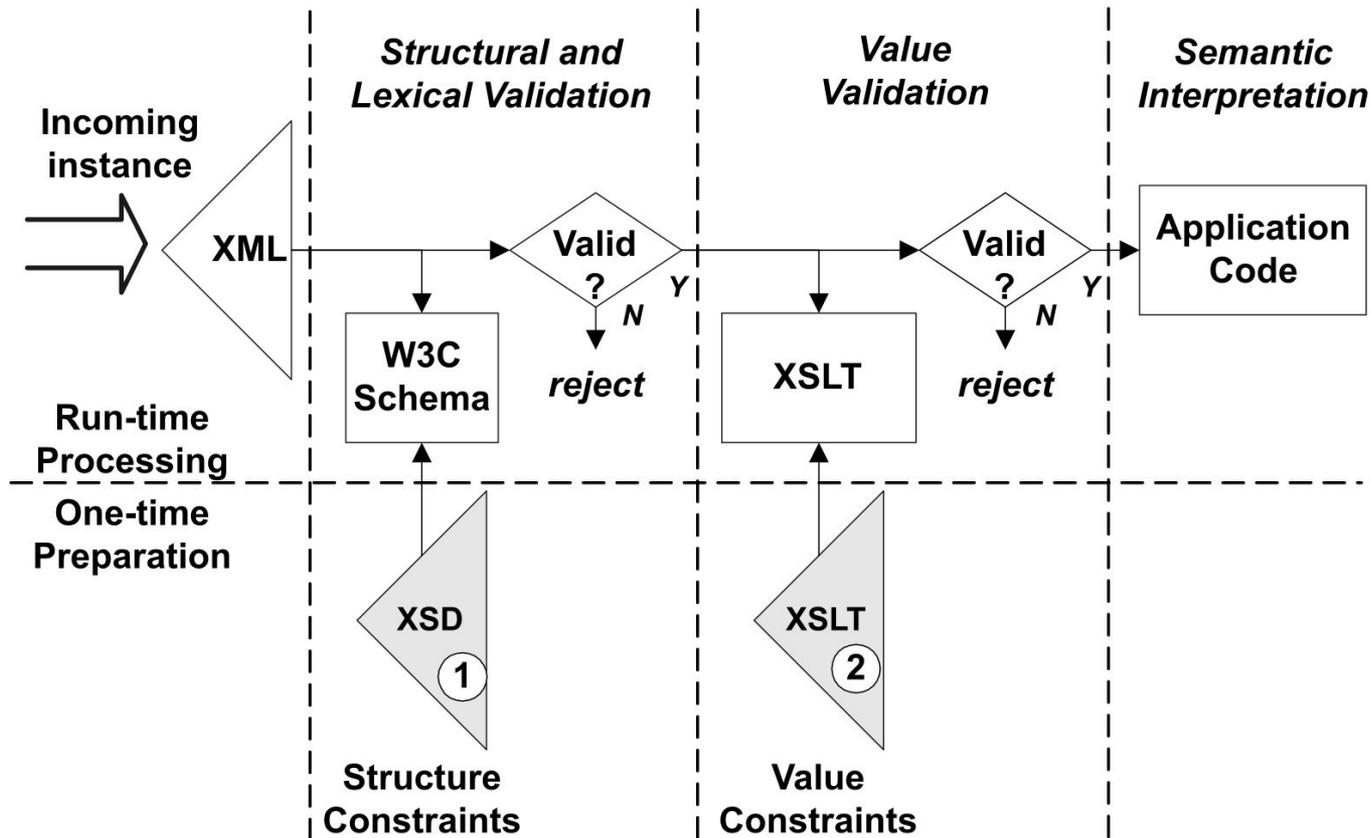
Core Component Technical Specification (CCTS)



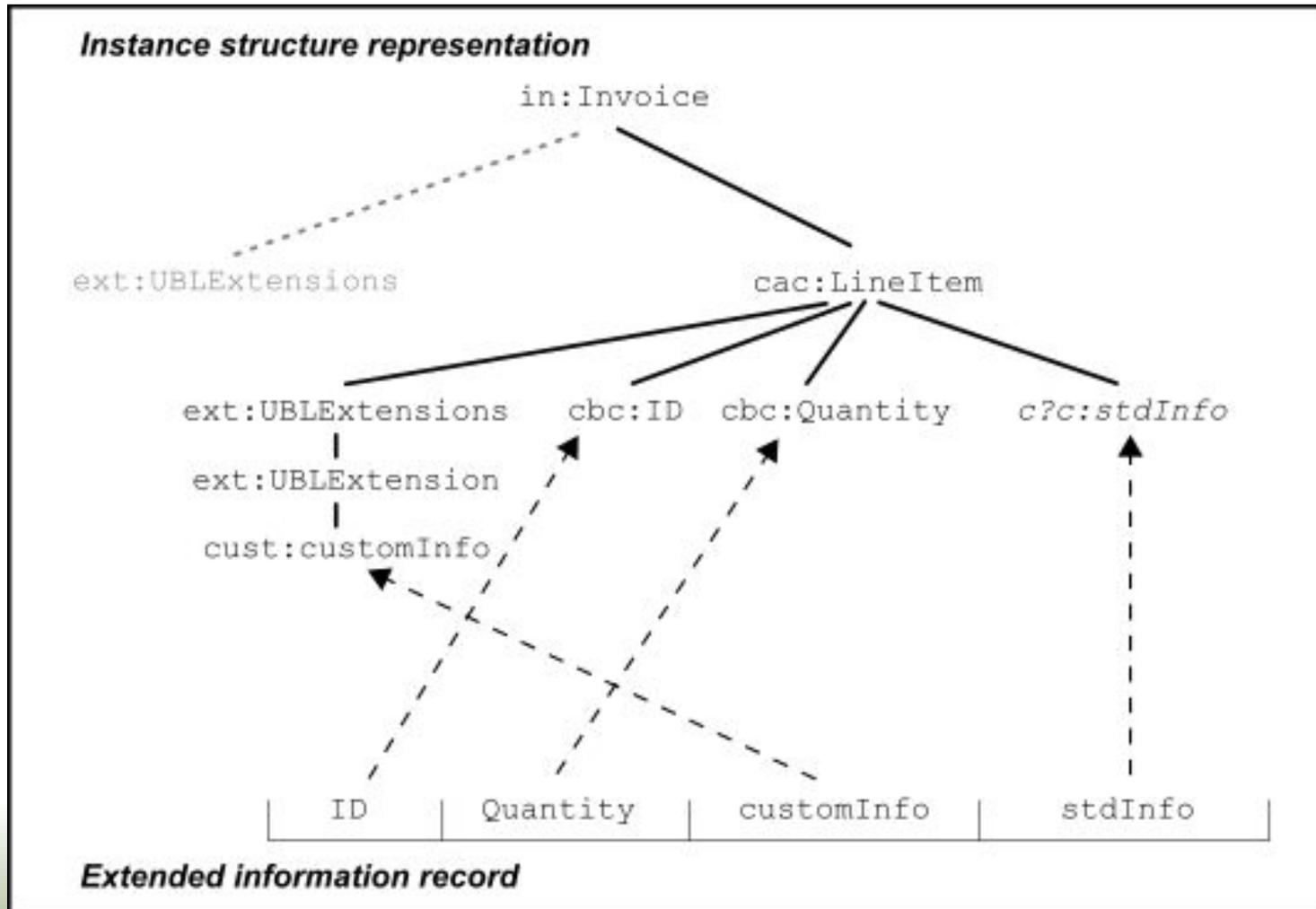
Committee spreadsheet

	A	B	C	D	E
11	ActivityProperty			A class to define a name/value pair for a property of an inventory planning activity.	
12	Name		1	The name of this activity property.	
13	Value		1	The value of this activity property.	
14	Address			A class to define common information related to an address.	
15	ID		0..1	An identifier for this address within an agreed scheme of address identifiers.	DetailsKey
16	AddressTypeCode		0..1	A mutually agreed code signifying the type of this address.	
17	AddressFormatCode		0..1	A mutually agreed code signifying the format of this address.	
18	Postbox		0..1	A post office box number registered for postal delivery by a postal service provider.	PostBox, PO Bx
19	Floor		0..1	An identifiable floor of a building.	SubPremiseNui
20	Room		0..1	An identifiable room, suite, or apartment of a building.	SubPremiseNui
21	StreetName		0..1	The name of the street, road, avenue, way, etc. to which the number of the building is attached.	Thoroughfare
22	AdditionalStreetName		0..1	An additional street name used to further clarify the address.	Thoroughfare
23	BlockName		0..1	The name of the block (an area surrounded by streets and usually containing several buildings) in which this address is located.	
24	BuildingName		0..1	The name of a building.	BuildingName
25	BuildingNumber		0..1	The number of a building within the street.	PremiseNumbe
26	Description		0..n	Text describing this address for clarification or specificity	
27	InhouseMail		0..1	The specific identifiable location within a building where mail is delivered.	MailStop
28	Department		0..1	The department of the addressee.	Department
29	MarkAttention		0..1	The name, expressed as text, of a person or department in an organization to whose attention incoming mail is directed; corresponds to the printed forms "for the attention of", "FAO", and ATTN:".	
30	MarkCare		0..1	The name, expressed as text, of a person or organization at this address into whose care incoming mail is entrusted; corresponds to the printed forms "care of" and "c/o".	
31	PlotIdentification		0..1	An identifier (e.g., a parcel number) for the piece of land associated with this address.	
32	CitySubdivisionName		0..1	The name of the subdivision of a city, town, or village in which this address is located, such as the name of its district or borough.	
33	CityName		0..1	The name of a city, town, or village.	LocalityName
34	PostalZone		0..1	The postal identifier for this address according to the relevant national postal service, such as a ZIP code or Post Code.	PostalCodeNun
35	CountrySubentity		0..1	The political or administrative division of a country in which this address is located, such as the name of its county, province, or state, expressed as text.	AdministrativeA Country, Shire,
36	CountrySubentityCode		0..1	The political or administrative division of a country in which this address is located, such as a county, province, or state, expressed as a code (typically nationally agreed).	AdministrativeA State Code
37	Region		0..1	The recognized geographic or economic region or group of countries in which this address is located.	LocalityName, E Zone
38	District		0..1	The district or geographical division of a country or region in which this address is located.	LocalityName, /
39	TimezoneOffset		0..1	The time zone in which this address is located (as an offset from Universal Coordinated Time (UTC)) at the time of exchange.	
40	AddressLine		0..n	An unstructured address line.	
41	Country		0..1	The country in which this address is situated.	
42	LocationCoordinate		0..n	The geographical coordinates of this address.	
43	AddressLine			A class to define an unstructured address line.	
44	Line		1	An address line expressed as unstructured text.	

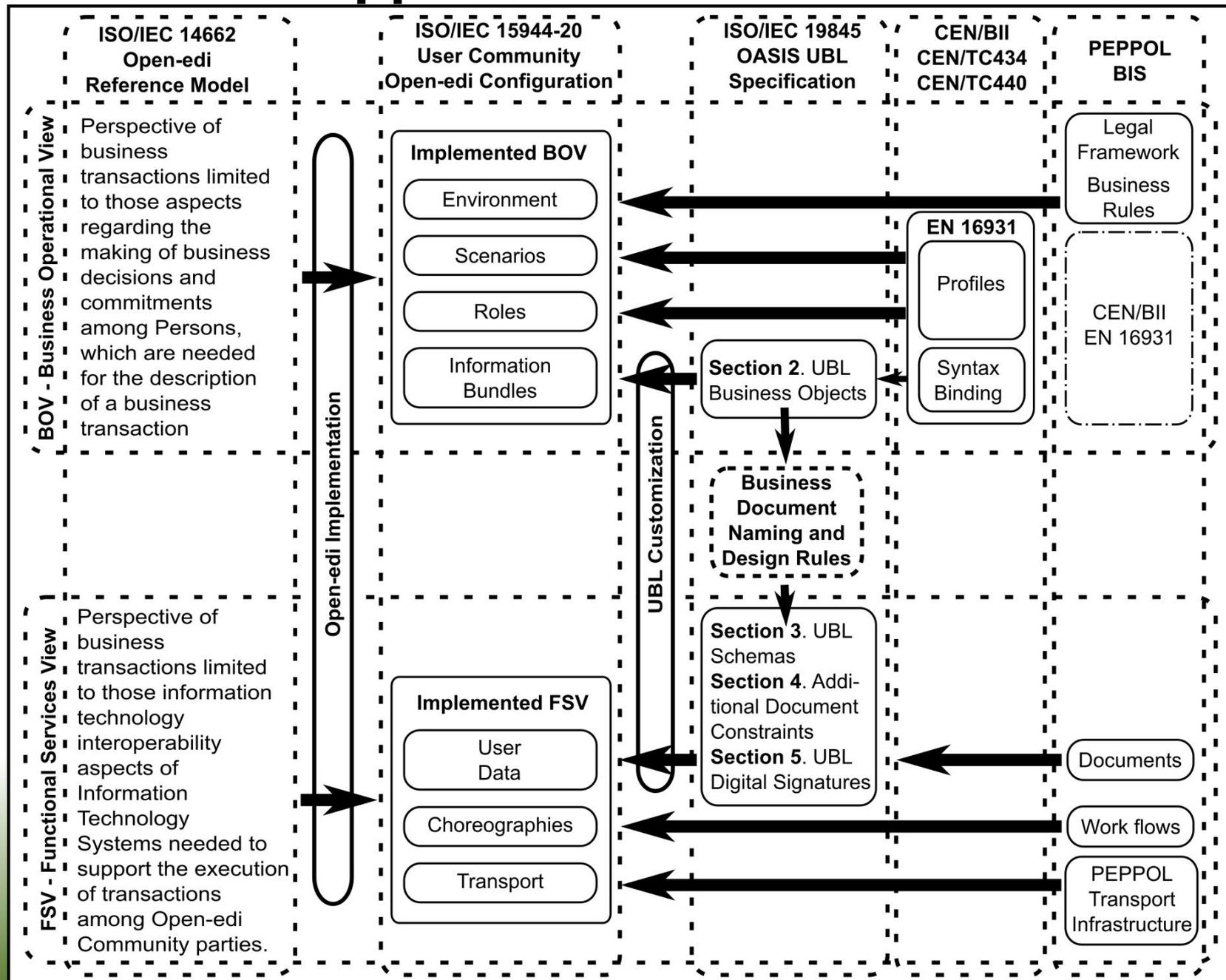
Two-pass document validation



Extension content



Application in context

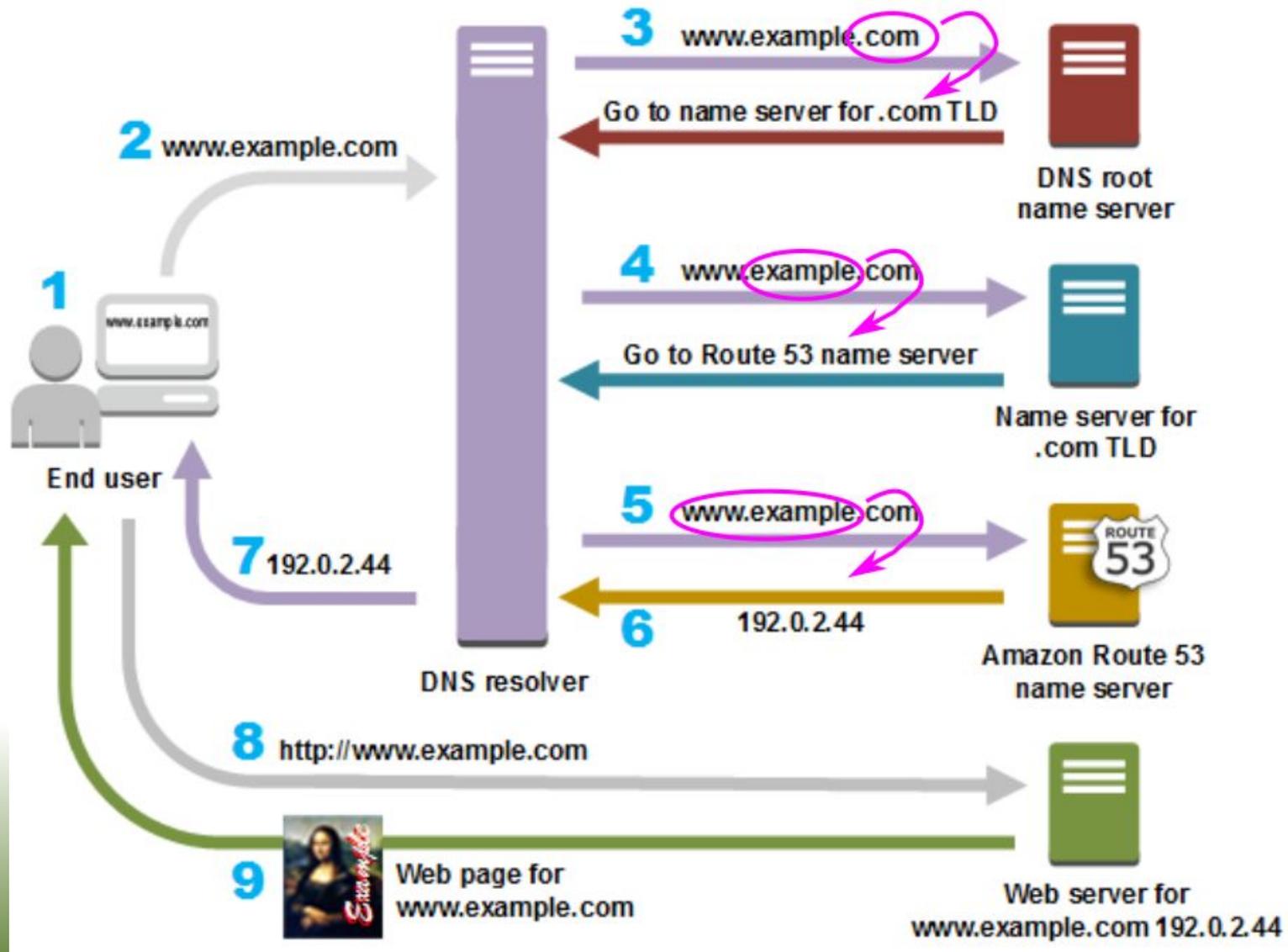


Case study of a semantic library underpinning the four-corner model for document exchange

G. Ken Holman

4-corner model DNS support

How DNS works (from <https://aws.amazon.com/route53/what-is-dns/>):



4-corner model DNS support (cont.)

How DNS is used for SMP in a 4-corner model:

