

Standards, Implementation & OASIS

**The Open Group Standards &
Certification Conference
San Diego 2004**

jamie.clark@oasis-open.org

OASIS

© OASIS 2003

Standards, Implementation & OASIS

www.oasis-open.org

- **What's OASIS?**
- **What's a standard?**
- **Why standards matter**
- **What standards should be**
- **How testing & certification fit in**

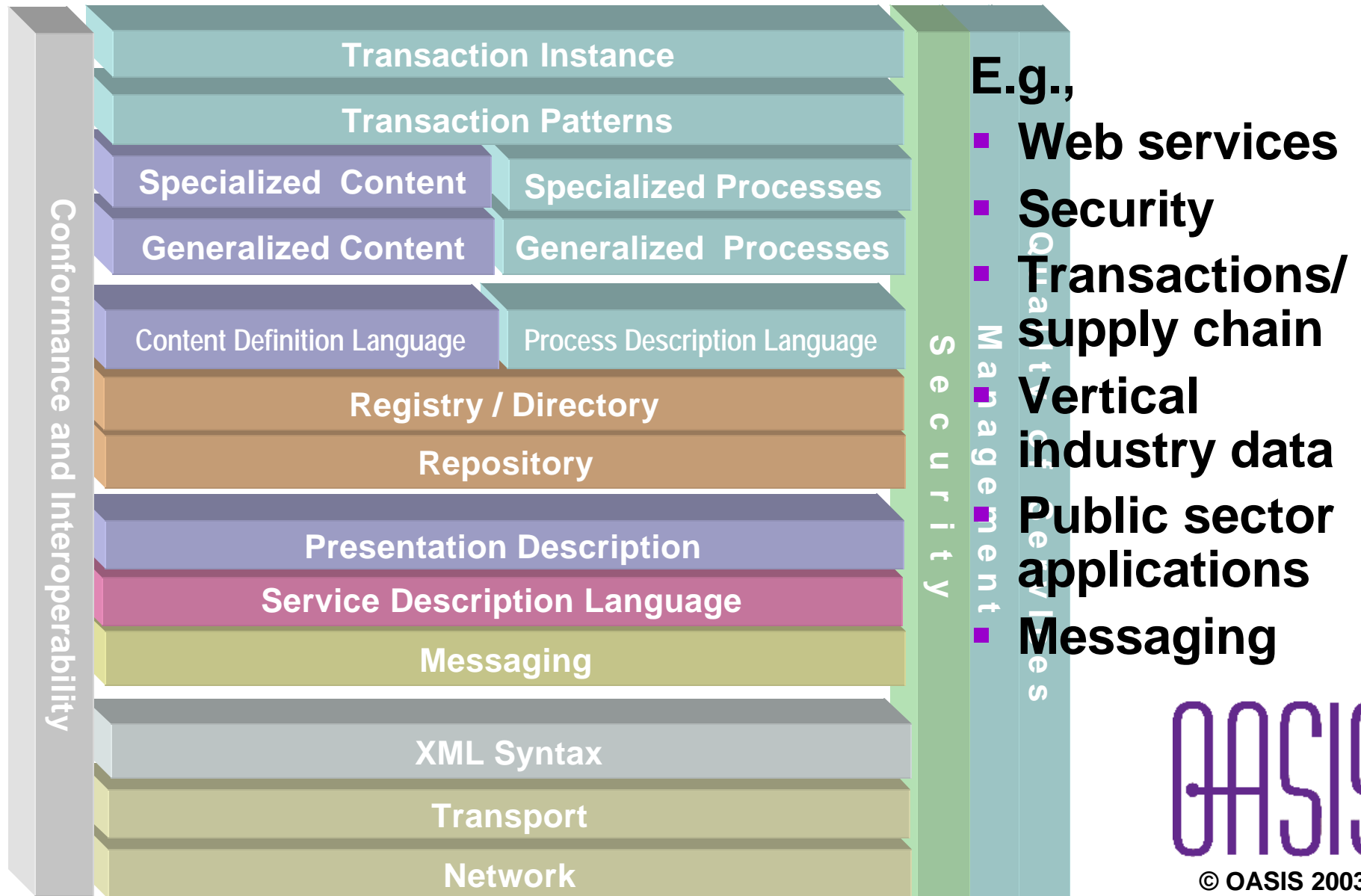
OASIS

© OASIS 2003

- **OASIS is a member-led, international nonprofit standards consortium concentrating on structured information and global e-business standards**
- **Members of OASIS are**
 - **Vendors, users, academics and governments**
 - **Organizations, individuals and industry groups**
- **Best known for e-business standards**
 - **ebXML**
 - **UDDI**
 - **SAML**
 - **WS-Security**
 - **WSRP**
 - **WSRM**
 - **SPML**
 - **XACML**
 - **UBL**

Coordination in *e-business*: >60 standards projects at OASIS

www.oasis-open.org

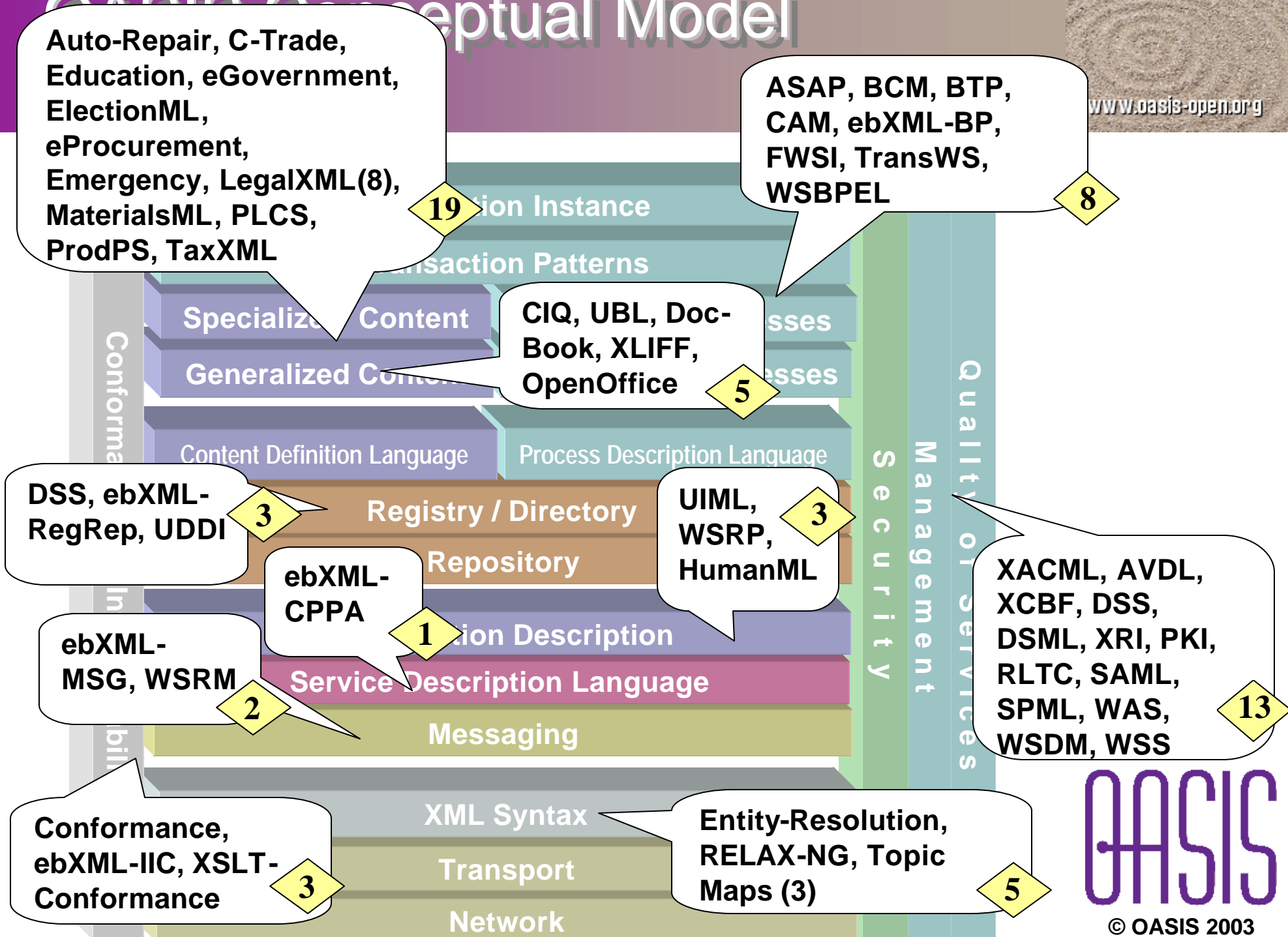


OASIS

© OASIS 2003

OASIS Conceptual Model

www.oasis-open.org



OASIS Conceptual Model

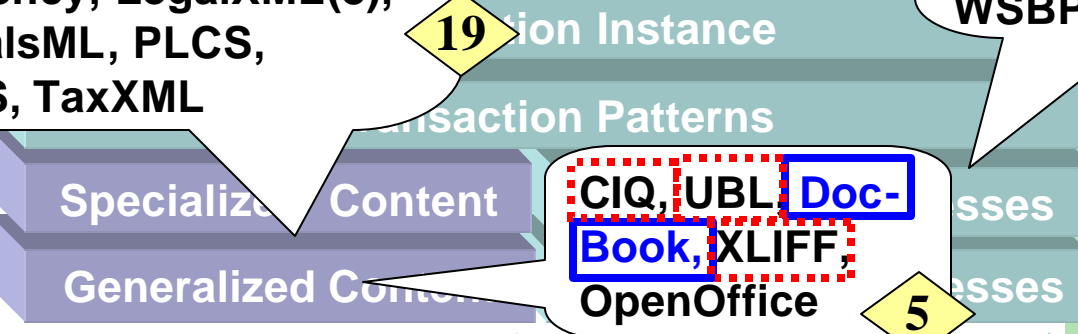
www.oasis-open.org

Auto-Repair, C-Trade, Education, eGovernment, **ElectionML**, eProcurement, Emergency, LegalXML(8), MaterialsML, PLCS, ProdPS, TaxXML

19

ASAP, BCM, **BTP**, CAM, ebXML-BP, FWSI, TransWS, WSBPEL

8



5

Preliminary approval
Final approval

DSS, **ebXML-RegRep**, **UDDI**

3

ebXML-CPPA

1

ebXML-MSG, **WSRM**

2

Registry / Directory
Repository

UIML, **WSRP**, **HumanML**

3

Service Description Language
Service Description

XACML, **AVDL**, **XCBF**, DSS, **DSML**, XRI, PKI, **RLTC**, **SAML**, **SPMI**, WAS, **WSDM**, **WSS**

13

Conformance, **ebXML-IIC**, **XSLT-Conformance**

3

XML Syntax
Transport
Network

Entity-Resolution, **RELAX-NG**, **Topic Maps (3)**

5

Security
Management
Quality of Services



What's a standard?

www.oasis-open.org

- **Anything on which two vendors agree?**
 - Not from our point of view
- **The eye in the hurricane of competition**
- **Real standards are distinguishable:**
 - Known rules
 - Fair environment
 - Transparent operations
 - Transparent output

OASIS

© OASIS 2003

Standards affect the cost of e-commerce

www.oasis-open.org

- Normalizing processes, data and users costs time and money
- ROI: operational savings can balance the cost if *stable* and *persistent*
- But instability can thwart that recovery:
 - Underspecification
 - Overversioning
 - Competitive “embrace and extend”
 - Baroque use conditions
 - Withdrawal, obsolescence, disappearance
- How do you mitigate these risks?

OASIS

© OASIS 2003

Mitigating user risks

www.oasis-open.org

Risks to ROI

- Under-scoped
- Under-specification
- Obsolescence or overversioning
- Unstable source
- Withdrawal
- Competitive “embrace and extend”
- Baroque use conditions

UNSUITABLE

UNRELIABLE

UNAVAILABLE

Solutions

- Declared use cases
- Known, clear rules
- Stable, reputable, neutral source
- Testable conformance
- Certification
- User-centric IPR requirements

OASIS

© OASIS 2003

Mitigating: *suitability*

Risks to ROI

- Under-scoped
- Under-specification
- Obsolescence or overversioning
- Unstable source
- Withdrawal
- Competitive “embrace and extend”
- Baroque use conditions



UNSTABLE
UNRELIABLE
UNAVAILABLE



Solutions

- Declared use cases
- Known, clear rules
- Stable, reputable, neutral source
- Testable conformance
- Certification
- User-centric IPR requirements

Is the standard *suitable*?

www.oasis-open.org

(Briefly)

- Are the right use cases declared?
 - Mind your requirements
 - Standards carry business rule content
- Stable, reputable, neutral source
 - Are the rules known, clear, enforced?
 - Who controls the standards process? Who owns it? Who participates?
 - Emerging government standards for standards?
 - Degree of coordination, liaison, re-use?
(We will return to source issues later)

OASIS

© OASIS 2003

Mitigating user risks

www.oasis-open.org

Risks to ROI

- Under-scoped
- Under-specification
- Obsolescence or overversioning
- Unstable source
- Withdrawal
- Competitive “embrace and extend”
- Baroque use conditions

UNSUITABLE

UNRELIABLE

UNAVAILABLE

Solutions

- Declared use cases
- Known, clear rules
- Stable, reputable, neutral source
- Testable conformance
- Certification
- User-centric IPR requirements

OASIS

© OASIS 2003

Mitigating: *availability*

Risks to ROI

- Under-scoped
- Under-specification
- Obsolescence or overversioning
- Unstable source
- Withdrawal
- Competitive “embrace and extend”
- Baroque use conditions

UNSUITABLE

UNRELIABLE

UNAVAILABLE



Solutions

- Declared use cases
- Known, clear rules
- Stable, reputable, neutral source
- Testable conformance
- **Certification**
- **User-centric IPR requirements**

OASIS

Is the standard *available*?

www.oasis-open.org

- **User-centric IPR requirements**
 - Industry vertical & end-user participation
 - At the requirements phase rather than output
 - **Not really today's topic**
- **Certification**
 - See “reliability” (next)

OASIS

© OASIS 2003

Mitigating user risks

www.oasis-open.org

Risks to ROI

- Under-scoped
- Under-specification
- Obsolescence or overversioning
- Unstable source
- Withdrawal
- Competitive “embrace and extend”
- Baroque use conditions

UNSUITABLE

UNRELIABLE

UNAVAILABLE

Solutions

- Declared use cases
- Known, clear rules
- Stable, reputable, neutral source
- Testable conformance
- Certification
- User-centric IPR requirements

OASIS

© OASIS 2003

Mitigating: *reliability*

Risks to ROI

- Under-scoped
- Under-specification
- Obsolescence or overversioning
- Unstable source
- Withdrawal
- Competitive “embrace and extend”
- Baroque IPR conditions



Solutions

- Declared use cases
- Known, clear rules
- **Stable, reputable, neutral source**
- **Testable conformance**
- **Certification**
- User-centric IPR requirements

Is the standard *reliable*? Level playing field

www.oasis-open.org

- Clear, known, enforced *process*? Who *runs* it?
- Emerging government standards for standards?
- Degree of coordination, liaison, re-use?

Look at the participants and process: track record for quality and fairness?

- How evenhanded are the rules of the host organization? Are they enforced? What is its reputation?
- How productive has it been?
- Professors Shapiro and Varian: not all standards participation is motivated by the common good. Some positions may be designed to divert, delay or modify standards, in order to protect products or marketplaces.

(Shapiro and Varian, INFORMATION RULES, Harvard Business School Press, 1999, at 228-229, 236.)

OASIS

© OASIS 2003

Is the standard *reliable*? Level playing field

www.oasis-open.org

- Who controls the standards process?
- Emerging *government standards* for standards?
- Degree of coordination, liaison, re-use?
 - WTO Technical Barriers to Trade Agreement, Annex 3: http://www.wto.org/english/docs_e/legal_e/final_e.htm.
 - National government criteria, such as in the U.S.: <http://www.whitehouse.gov/omb/circulars/a119/a119.html>.

OASIS

© OASIS 2003

Is the standard *reliable*?

Level playing field

www.oasis-open.org

- Who controls the standards process?
- Emerging government standards for standards?
- Degree of *coordination, liaison, re-use*?

Coordination of standards at OASIS

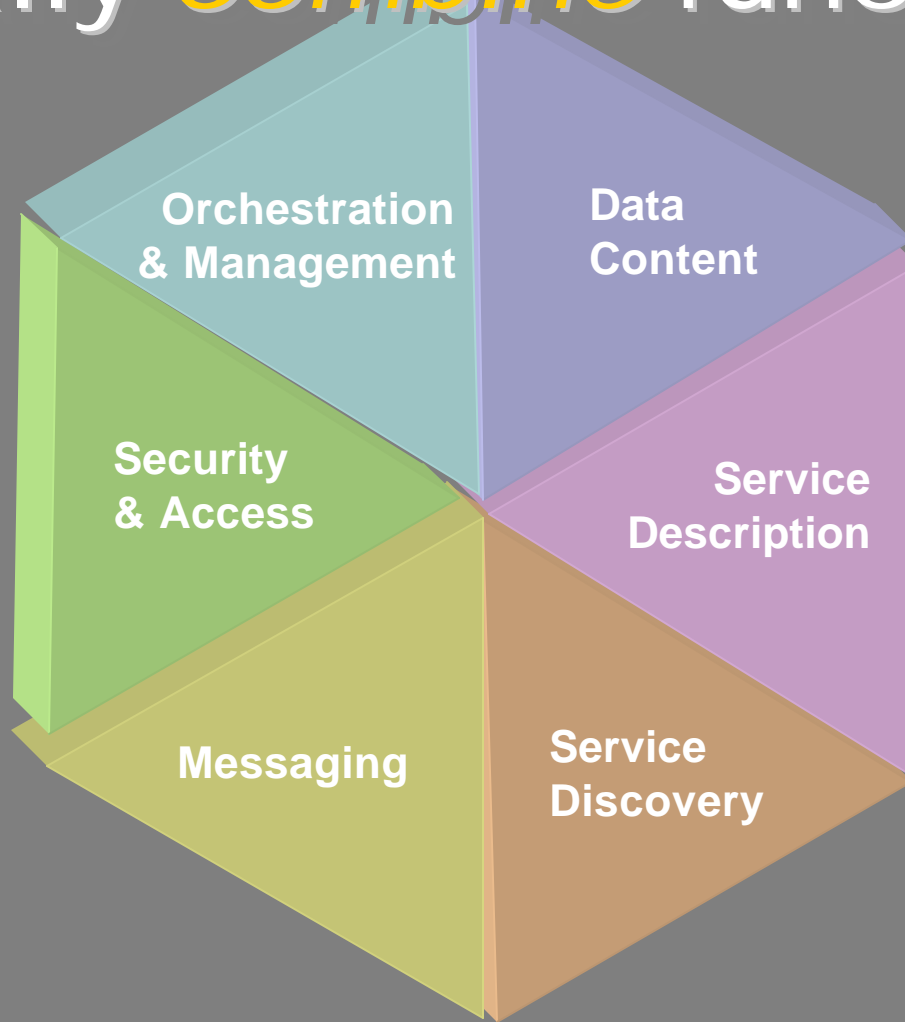
- Explicit dependencies across standards
- Elements from OASIS standards are submitted to other primary SDOs, e.g., *IETF, ISO, etc.*
- OASIS participates in many other standards and industry coordination efforts, e.g.,
 - *ISO/IEC/ITU global coordination MoU*
 - *RosettaNet, OMA, W3C, etc.*
 - *AIAG, WS-I, GGF, etc.*

The logo for OASIS, consisting of the word "OASIS" in a stylized, purple, sans-serif font. The letters are tall and narrow, with a unique design where the 'O' and 'A' are connected at the top, and the 'S' has a distinctive shape.

© OASIS 2003

Chords: Implementations usually *combine* functions

www.oasis-open.org



Common language (XML)

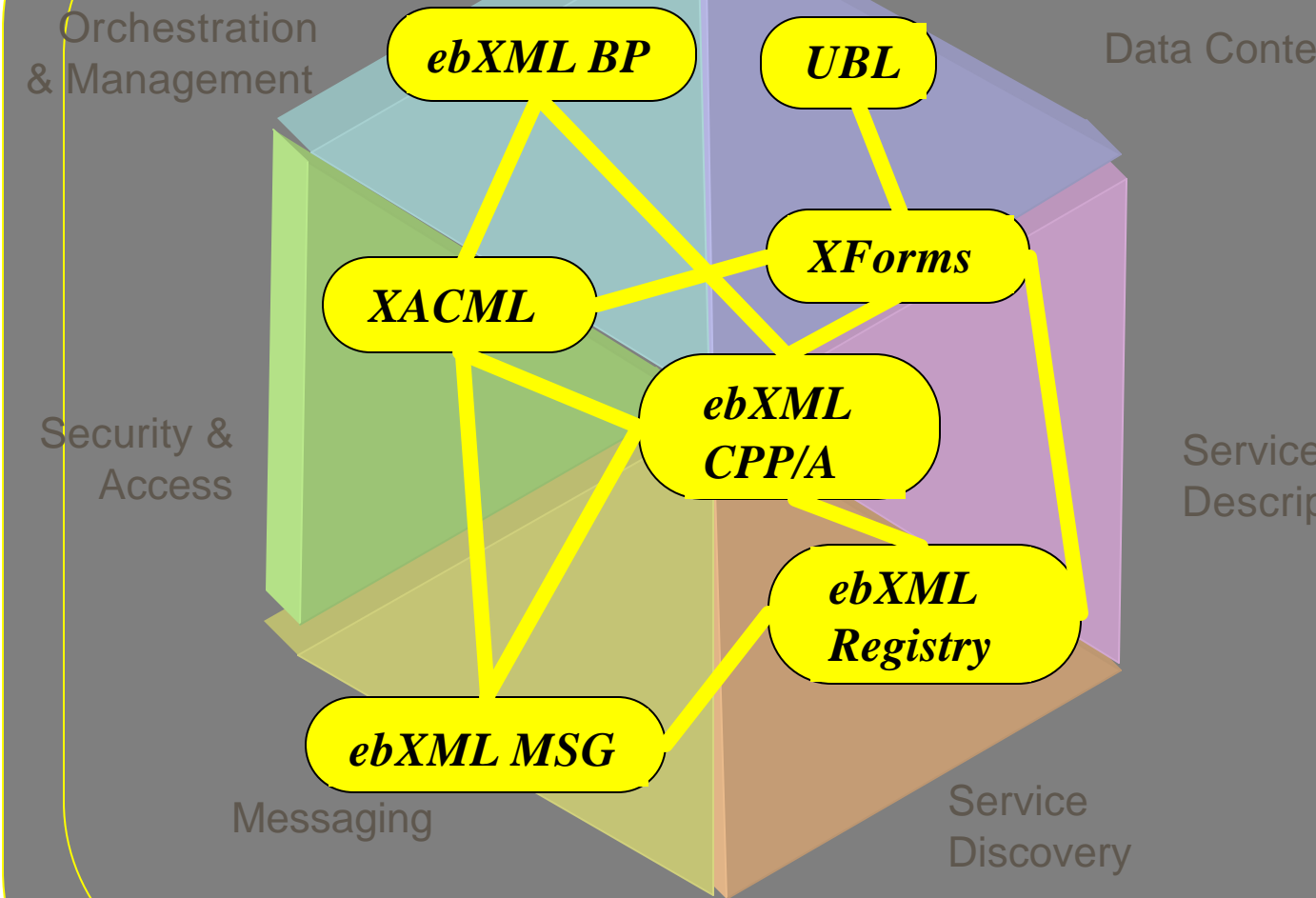
Common transport (HTTP, etc.)

OASIS

© OASIS 2003

Bet you can't eat just one: *crossdependencies*

www.oasis-open.org



*Example:
The OASIS
Disease Control
Interoperability
Demo at
XML 2003*

Dependencies should be:

- **Planned**
- **Explicit**
- **Modular**
- **Open-minded**

OASIS

© OASIS 2003

Is the standard *reliable*?

Conformance & testing

www.oasis-open.org

- Level playing field
- *Testable conformance*
- Certification

It's not over until the conformance clause sings

- Mission-critical conformance clauses
- Testable assertions
- OASIS Conformance TC reports
<http://www.oasis-open.org/committees/ioc>
- Explicit clauses in many OASIS standards
 - ebXML (x4)
 - SAML
 - XSLT-c
 - WSRP
 - Etc.

OASIS

© OASIS 2003

Is the standard *reliable*?

Conformance & testing

www.oasis-open.org

- **Level playing field**
- ***Testable conformance***
- **Certification**

It's not over until the conformance clause sings ... but sometimes it's not on stage

- **Questions around profiles and subsets**
 - **Looser application of use cases?**
 - **Looser process and controls?**
- **Interoperability vs. conformance**
 - **Being “interoperably nonconformant”**
 - **Dial tone, yes, but not standardization**
 - **Uncertainty about plug-and-play**

OASIS

© OASIS 2003

Is the standard *reliable*?

Conformance & testing

www.oasis-open.org

- Level playing field
- Testable conformance
- **Certification**

Maintaining the neutrality, control and market utility of testing

What should standards organizations do?

- Do it yourself? (we aren't)
- Offer software tools? (we aren't)
- Offer self-tests? (we may)
- Badging & branding? (we may)
- The value proposition for testing

OASIS

© OASIS 2003

Certification strategies depend on the user base

www.oasis-open.org

- **What's the *Marketecture*: Do hubs, vendors or end-users lead this use?**
 - Who gets the ROI?
 - Is return predicated on a closed or open network?
- **How entrenched is the software base?**
 - Are end-users choosing software yet?
 - Are we designing an optimal method, or trying to work with what we have?
- **How close are the trading partners?**
 - How intimate does the system get with my processes and business data?
 - Who owns the data?

OASIS

© OASIS 2003

Let's talk.

Standards, Implementation & OASIS

**The Open Group Standards &
Certification Conference
San Diego 2004**

jamie.clark@oasis-open.org

OASIS

© OASIS 2003