

Accredited Standards Committee X12 - XML Initiative

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About ASC X12

- Chartered in 1979 - Accredited by American National Standards Institute (ANSI) for electronic business message development
- Electronic Data Interchange (EDI)
- Supports cross-industry interoperability
- EDI standards released annually
- DISA: ASC X12's secretariat



ASC X12 XML Initiative

- August 2001 – XML Summit
- October 2001 – Started ASC X12 Reference Model for XML Design
- June 2002 – Concept Verification
 - Design piloted with an invoice document
 - Initial database design and schema generated
- October 2002 – Reference Model - Completed and Approved



Guiding Principles

- Build on the EDI experience but don't repeat mistakes
 - ✓ Effective data exchange tool for many larger enterprises
 - x Difficult and expensive for small to medium size companies
- ✓ Generalized standards provide flexibility
- x Requires industry specific implementation guides
- ✓ Rich source of semantic content
- x Difficult to integrate across industries



Guiding Principles

- Do not create a representation of current EDI transaction sets
- Alignment with other standards efforts: W3C, ebXML, UN/CEFACT
- Build on existing foundations and best practices

Design Goals

- Simplicity
- Modularity and Reusability
- Prescriptive
- Easy Extension and Customization
- Limit Randomness



Results

- Context Inspired Component Architecture (CICA)
 - Methodology for building and interpreting electronic business documents
 - Defined structure with flexibility required by different business models
- Recommendations for XML syntax in design of schemas and instance documents

CICA - Inspiration Sources

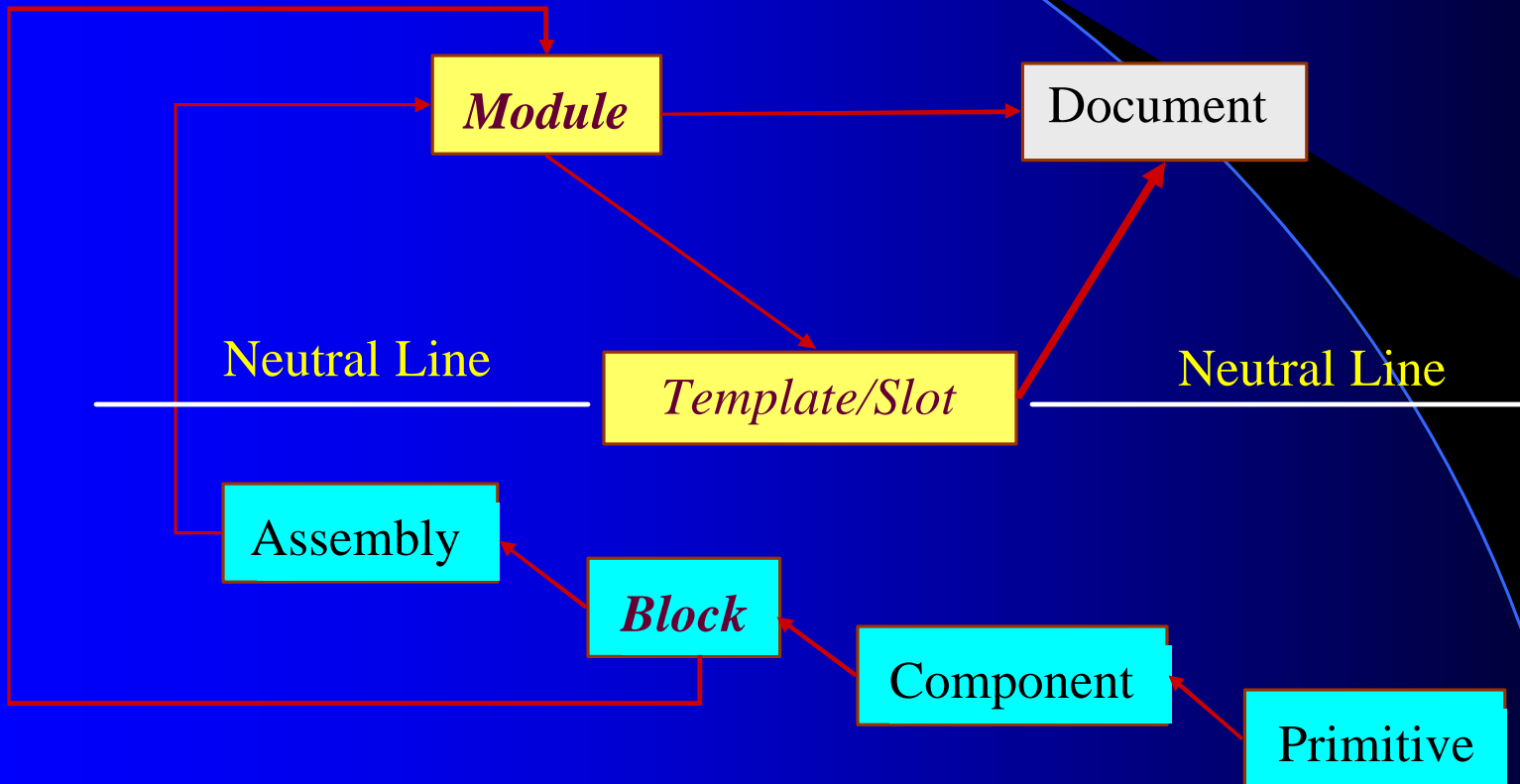
- Vocabulary
 - Meaningful units of language
- Grammar
 - Rules of structure and arrangement
 - A mechanism for generating all possible sentences

CICA Basics

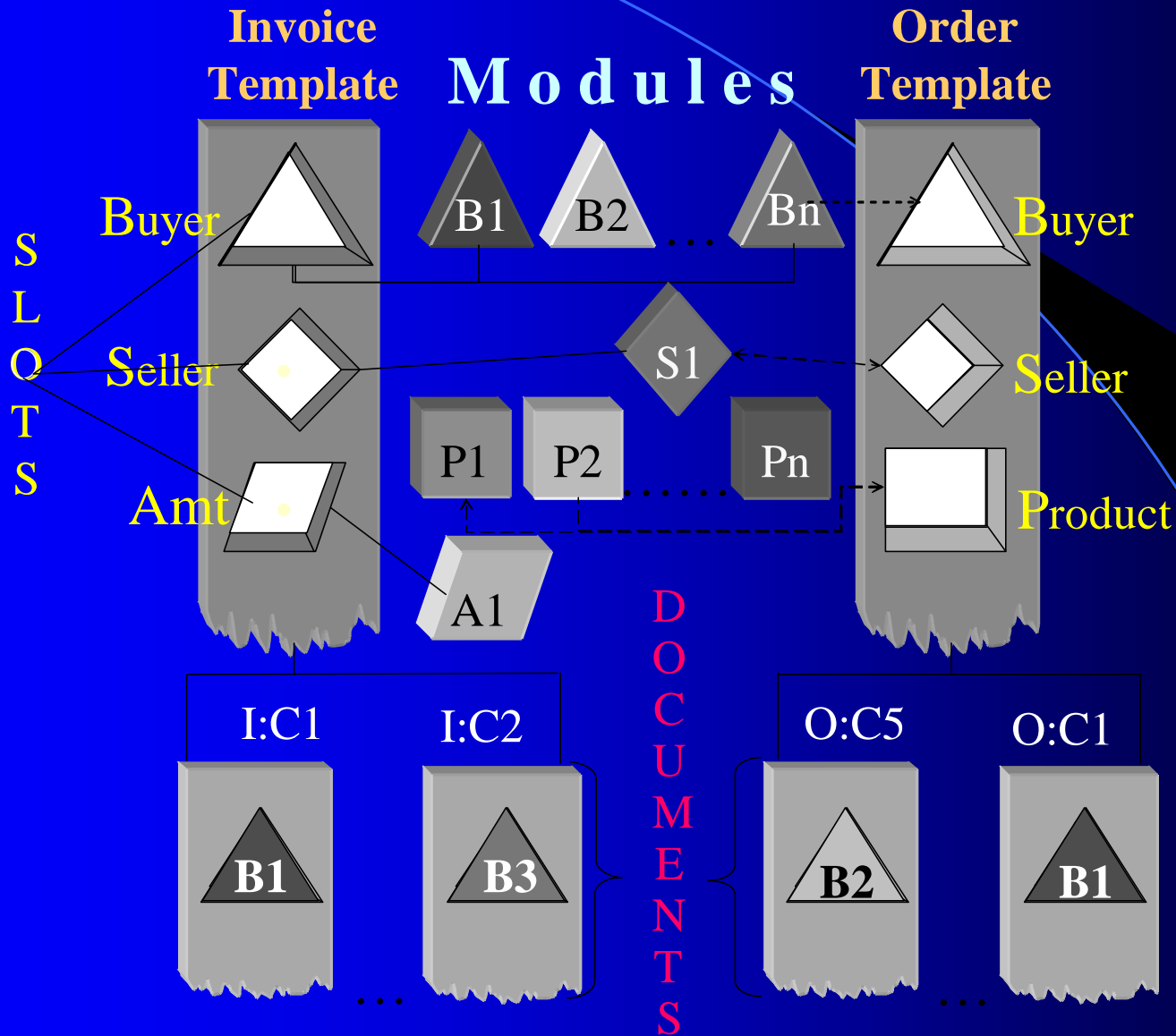
- Seven discrete levels of granularity
 - 4 layers are designed to be semantically neutral (Components)
 - 3 layers are designed to be more specific to industry implementations (Context)
- Draws on ebXML Core Components
- Encourages reuse of data and promotes semantic interoperability



CICA Architecture Layers



CICA Architecture At Work



Gartner Report

Praises the XML design model developed by ASC
X12

“CICA can transform XML standards development, and will enable creating and processing XML messages on demand.”

Report encourages users to -

“...push their standards organizations to use the CICA framework when developing XML-based specifications.”



Next Steps

- Submit to UN/CEFACT for consideration as a worldwide standard
- Continue design rule development
- Continue real-world tests
- Complete and formalize CICA semantics and XML components
- Present to entire ASC X12 for ballot
 - Mid 2003



On Web At

- Executive summary
 - http://www.x12.org/x12org/xmldesign/Technical_Report_Executive_Summary.pdf
- Full technical report
 - http://www.x12.org/x12org/xmldesign/X12Reference_Model_For_XML_Design.pdf



PRIA

- The Property Records Industry Alliance (PRIA) is a vertical standard tailored to eRecording standards. PRIA is closely working in an alliance with MISMO's eMortgage Workgroup so the standards are interoperable. Bettie will give us an update and discuss where PRIA is going, and hot tech issues for Recorders, such as Privacy

OASIS

- OASIS is one of the best known horizontal standards bodies in the XML community, they also have vertical standards that they support, such as LegalXML. MISMO is a member of and uses OASIS standards. Patrick will give us an overview of OASIS and some of the hot topics they are confronting in the world of XML technology and Web Services