

PPDM Association Fall Conference 2000

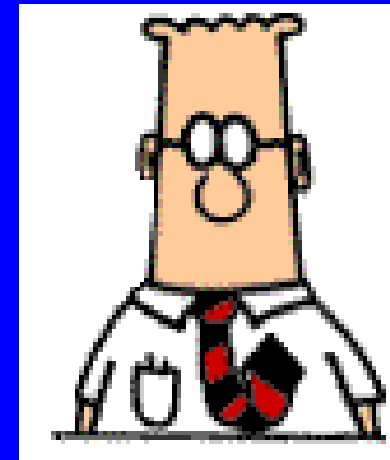
Presenter: Yogi Schulz

XML - The Next Generation



PPDM™
a bright future
2000

XML - The Next Generation



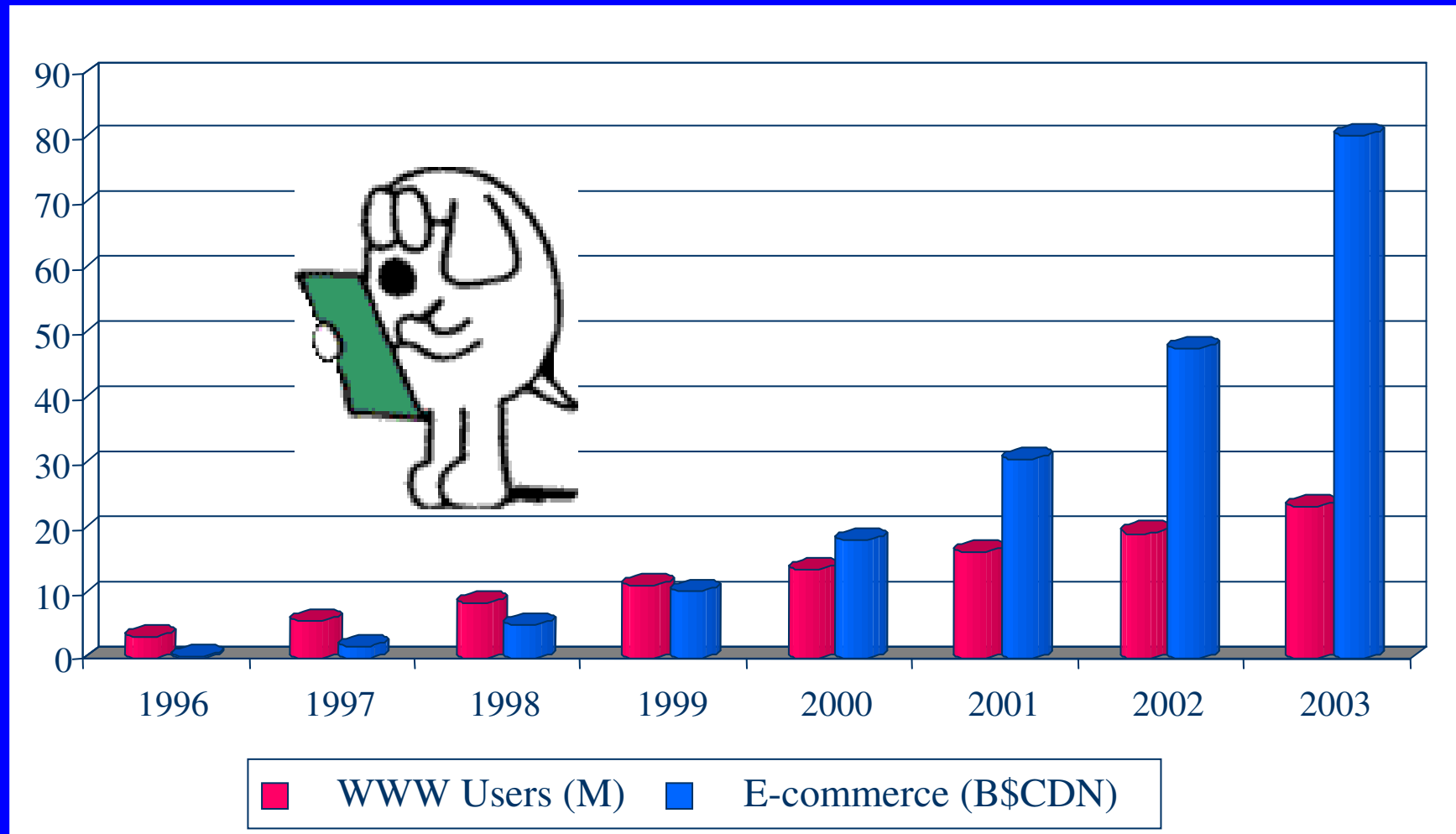
Yogi Schulz



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The Internet and E-commerce in Canada

XML - The Next Generation



Presentation Outline

XML - The Next Generation

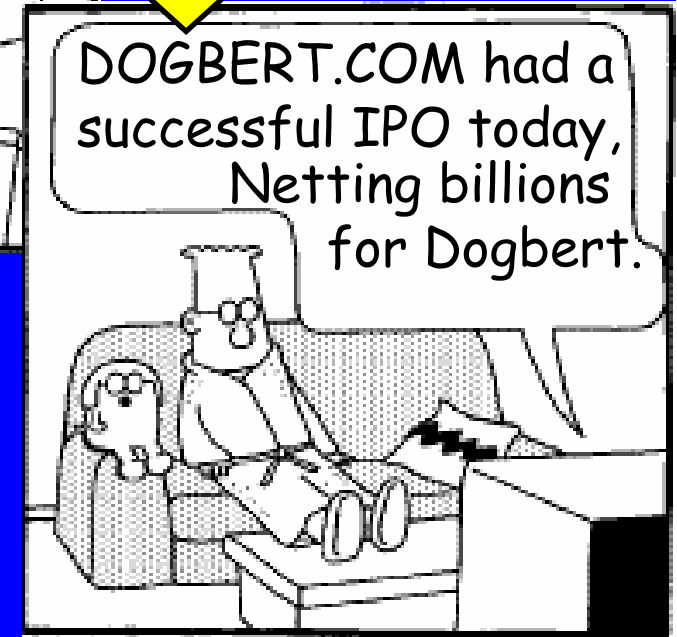
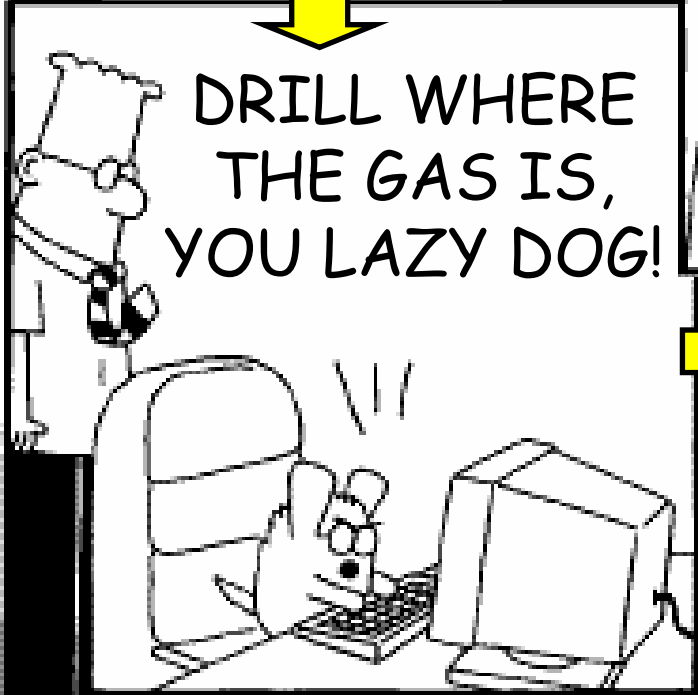
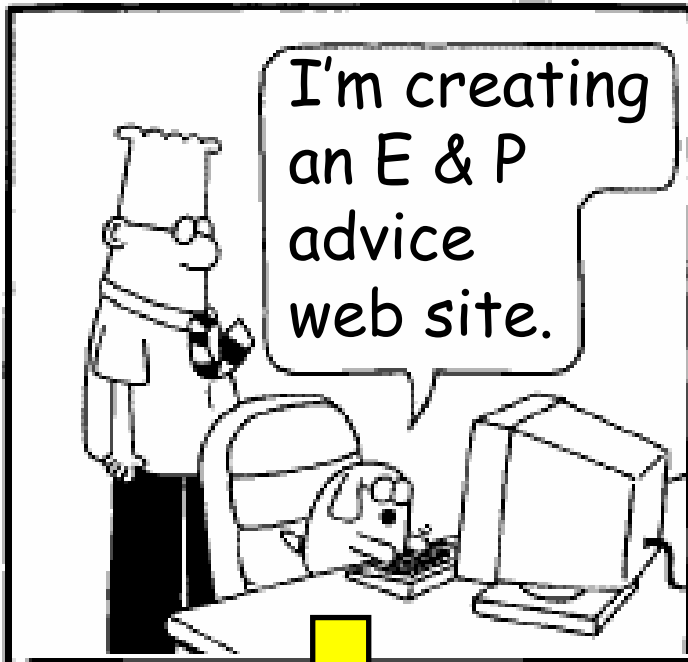
- ❑ **Interoperability**
- ❑ **EDI vs. XML**
- ❑ **Benefits**
- ❑ **E-commerce XML Standards Initiatives**
- ❑ **Actions to consider**



XML and Web-based transactions
are
The Next Generation



Using the Web for Exploration Success

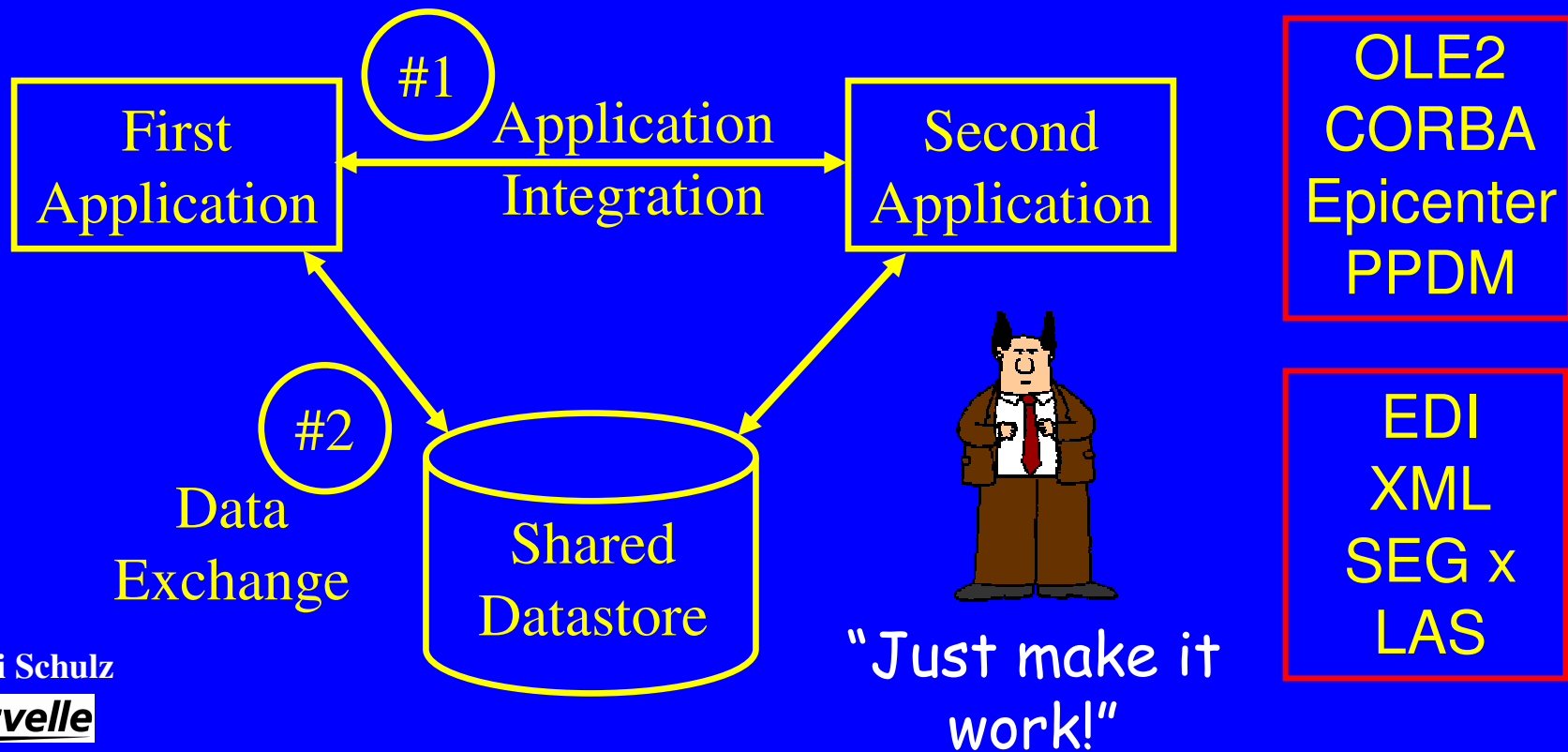


Orville

Interoperability Definition

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Interoperability is seamless sharing of data
among multiple applications





Types of E&P Interoperability Initiatives

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❑ Application integration:

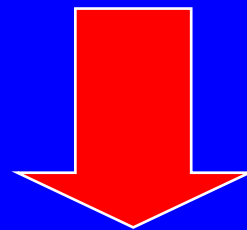
#1

- OpenSpirit Corporation 64.120.12.3
- PrismTech/Open Synergy www.opensynergy.com
- POSC www.posc.org/technical/interop/index.shtml
- PPDM Association www.ppdm.org

❑ Data exchange:

#2

- BizTalk www.biztalk.org
- BizTech for Energy www.com4energy.com
- Geoshare Users' Group www.geoshare.org
- OpenDX www.opendx.com



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Benefits to E&P

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- ❑ **Lower costs**

"I'll catch up as soon
as I get dressed!"

- ❑ **Faster, better, cheaper customer service**

- ❑ **Improved productivity**

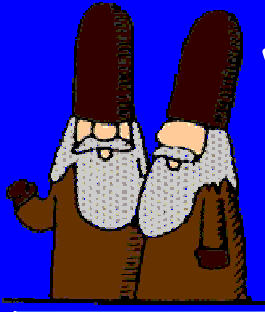
- ❑ **A new channel for delivering products and services:**

- immediate global presence
- lowers barriers
- levels the playing field

- ❑ **A faster, cheaper means for communication:**

- easier for customers, partners and suppliers to find each other
- streamline processes of ordering, invoicing and paying





"What a great Elbonian idea!"

EDI to XML Transaction Comparison



EDI	Transaction Type	Transaction Date	Business Associate Code	Product Code	Product Quantity	Unit Price
	703	2000/04/23	6690422	203156	12	344.75

XML

```

<?xml version="1.0" encoding="ISO-8859-1"?>
<Transaction_Set_Header>
  <stuff>
</Transaction_Set_Header>
<Transaction_set>
  <Transaction_Type>703</Transaction_Type>
  <Transaction_Date>2000/04/23</Transaction_Date>
  <Business_Associate_Code>6690422</Business_Associate_Code>
  <Product_Code>203156</Product_Code>
  <Product_Quantity>12</Product_Quantity>
  <Unit_Price_Value>344.75</Unit_Price_Value>
</Transaction_set>

```




EDI vs. XML

Characteristics Comparison

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Aspects	EDI	XML
Flexibility	Low	High
Maturity	High	Low
Setup costs	Significant	Lower
Telecommunications Network	Private; Higher cost	Shared public; Lower cost
Operating costs	High	Low
Security	High	Variable
Bandwidth	Low	High

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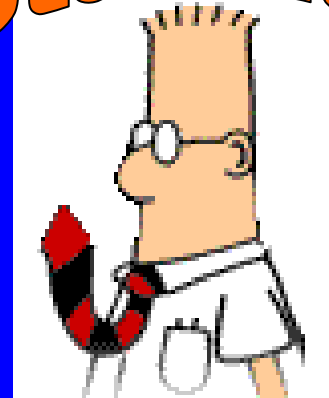


E-commerce XML Standards Initiatives

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- ❑ BizTalk
- ❑ CBL
- ❑ cXML
- ❑ ebXML
- ❑ OBI
- ❑ Rosettanet
- ❑ UDDI

Profusion
of Standards



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- ❑ BizTalk is an industry initiative started by Microsoft and supported by a wide range of organizations, from technology vendors like SAP, CommerceOne, and Ariba to technology users like BASDA.
- ❑ BizTalk is not a standards body, but a community of standards users, with the goal of driving the rapid, consistent adoption of XML to enable electronic commerce and application integration.
- ❑ BizTalk is defining the BizTalk Framework™, a set of guidelines for how to publish schemas in XML and how to use XML messages to easily integrate software programs together in order to build rich new solutions.
- ❑ Further reference at BizTalk:

– www.biztalk.org/Biztalk/framework.asp

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Microsoft

Common Business Language CBL

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- ❑ Commerce One's xCBL 2.0 is an open XML specification for the cross-industry exchange of business documents such as product descriptions, purchase orders, invoices, and shipping schedules.
- ❑ xCBL 2.0 is a set of XML building blocks and a document framework that allows the creation of robust, reusable, XML documents for electronic commerce.
- ❑ Using the xCBL 2.0 document framework, businesses can seamlessly exchange business documents of different types, resulting in frictionless electronic commerce across multiple trading communities.
- ❑ Further reference at Commerce One:
 - www.commerceone.com/xml/cbl/index.html

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Commerce Extensible Markup Language cXML

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- ❑ Commerce XML (cXML) is an open Internet-based standard for e-commerce. cXML provides an infrastructure that will streamline the process of digitally exchanging catalog content and transactions in a secure manner.
- ❑ cXML supports all supplier content and catalog models, including buyer-managed, supplier-managed, content management services, electronic marketplaces, and web-based sourcing organizations.
- ❑ cXML is based on the World Wide Web Consortium's (W3C's) XML standard with its associated request/response processes.
- ❑ Further reference at Ariba:
 - www.ariba.com

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ebXML

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- ❑ The United Nations body for Trade Facilitation and Electronic Business (UN/CEFACT) and the Organization for the Advancement of Structured Information Standards (OASIS) have joined forces to initiate a worldwide project to standardize XML business specifications.
- ❑ UN/CEFACT and OASIS have established the Electronic Business XML initiative to develop a technical framework that will enable XML to be utilized in a consistent manner for the exchange of all electronic business data.
- ❑ A primary objective of ebXML is to lower the barrier of entry to electronic business in order to facilitate trade, particularly with respect to small- and medium-sized enterprises (SMEs) and developing nations.

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Further reference at the Electronic Business XML:

– www.ebxml.org/geninfo.htm#what



Open Applications Group

Open Applications Group

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- ❑ The Open Applications Group is a non-profit consortium focusing on best practices and process based XML content for eBusiness and Application Integration.
- ❑ It is the largest publisher of XML based content for business software interoperability in the world.
- ❑ Open Applications Group, Inc. members have:
 - extensive experience in building this industry consensus based framework for business software application interoperability
 - have developed a repeatable process for quickly developing high quality business content and XML representations of that content.
- ❑ Further reference at:
 - www.openapplications.org

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ORACLE®
SOFTWARE POWERS THE INTERNET™



Open Buying on the Internet

OBI

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- ❑ The OBI™ standard is an open, flexible framework for business-to-business Internet commerce solutions.
- ❑ The initial focus of OBI is on automating the high-volume, low-dollar transactions between trading partners that account for 80% of most organizations' purchasing activities.
- ❑ Further reference at the OBI Consortium:
 - www.openbuy.org/obi/specs/

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- ❑ RosettaNet is building a master dictionary to define properties for products, partners, and business transactions for the Electronic Components (EC) and Information Technology (IT) industries.
- ❑ This master dictionary, coupled with an established implementation framework (exchange protocols), is used to support the eBusiness dialog known as the Partner Interface Process or PIP.
- ❑ RosettaNet PIPs create new areas of alignment within the overall EC and IT supply-chains, allowing EC and IT partners to scale eBusiness, and to fully leverage Ecom applications and the Internet as a business-to-business commerce tool.
- ❑ Further reference at RosettaNet:

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– www.rosettanet.org/general/index_general.html



Universal Description, Discovery and Integration (UDDI) standard

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- ❑ The UDDI standard creates a platform-independent, open framework for describing services, discovering businesses, and integrating business services using the Internet.
- ❑ The UDDI standard takes advantage of World Wide Web Consortium (W3C) and Internet Engineering Task Force (IETF) standards.
- ❑ The UDDI standard is the building block that will enable businesses to quickly, easily and dynamically find and transact with one another using their preferred applications.
- ❑ Further reference at UDDI:
 - www.uddi.org/about.html

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Summary

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"No sweat,
this stuff is easy!"

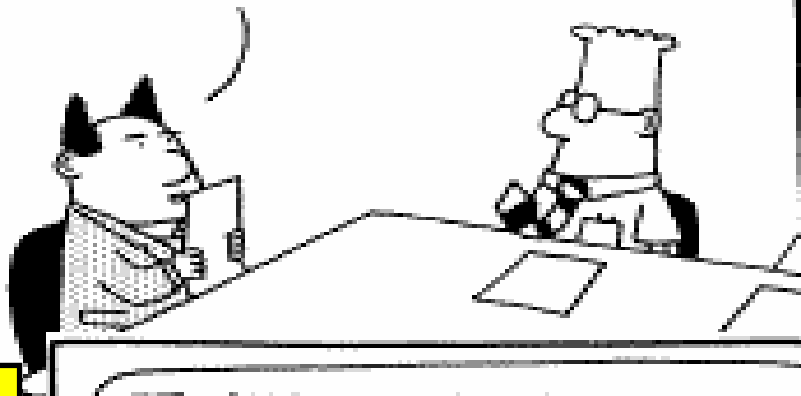
- ❑ XML gaining momentum
- ❑ Many standards are developing
- ❑ Identify data exchange opportunities:
 - procurement
 - exploration
 - accounting
 - regulatory
- ❑ Support standards/developers

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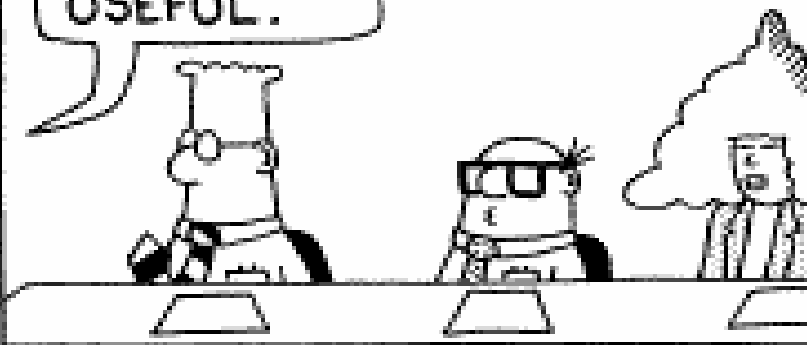
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Preparing for the Web

EVERY DEPARTMENT IS REQUIRED TO CREATE A WEB PAGE FOR OUR INTERNAL NETWORK.

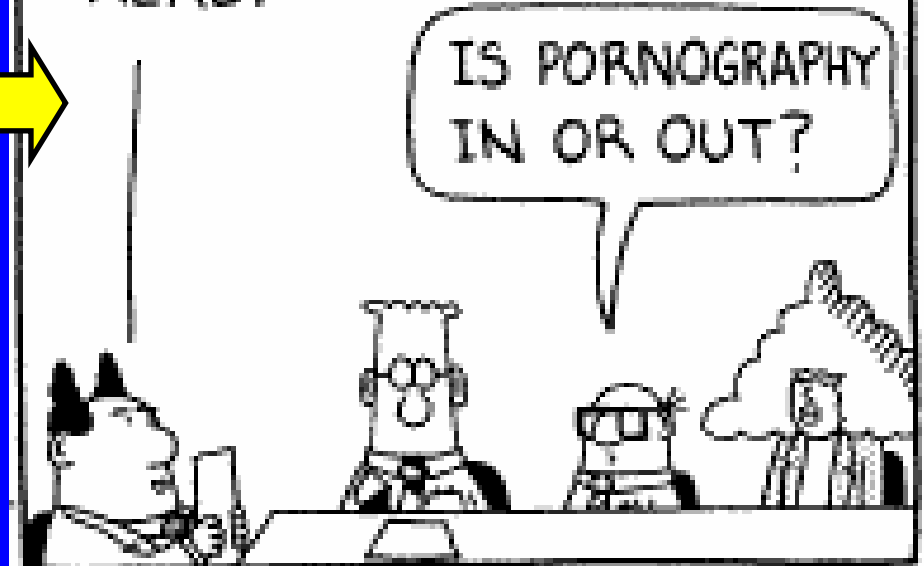


IT SHOULD INCLUDE ENOUGH INFORMATION TO BE DIFFICULT TO MAINTAIN, BUT NOT SO MUCH THAT IT'S USEFUL.



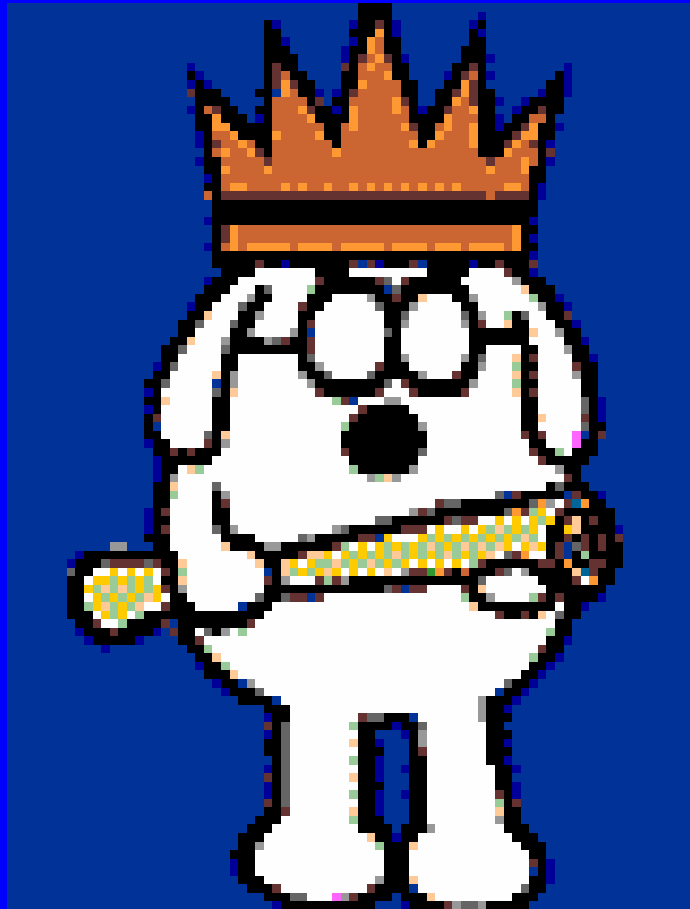
AS A SECURITY PRECAUTION, WE'LL MAKE IT TOO DULL AND UNORGANIZED TO READ.

IS PORNOGRAPHY IN OR OUT?



Any Questions?

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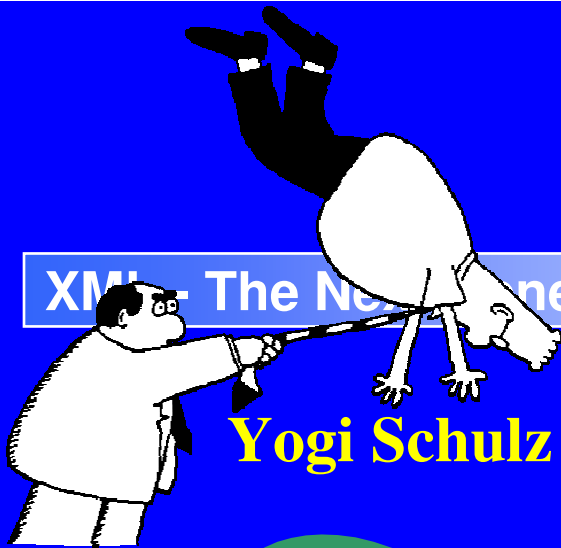
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Dogbert
will explain
EDI to XML
to you!

XML

The Next Generation



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- President of Corvelle Management Consultants**
- Information technology related management consulting**
- Project management and systems development**
- Computing Canada columnist**



Public Petroleum Data Model Association - Board

XML Resource Sites - 1

- ❑ **BizTalk**
 - www.biztalk.org/BizTalk/default.asp
- ❑ **BizTech for Energy**
 - www.com4energy.com
- ❑ **FAQ about the Extensible Markup Language**
 - www.ucc.ie/xml
- ❑ **Global Commerce Initiative**
 - www.globalcommerceinitiative.org
- ❑ **Open Applications Group**
 - www.openapplications.org
- ❑ **Organization for the Advancement of Structured Information Standards - OASIS**
 - www.oasis-open.org
 - www.oasis-open.org/cover/xml.html



XML Resource Sites - 2

❑ **Petroleum Industry Data Exchange**

– www.pidx.org

The logo for the Petroleum Industry Data Exchange (PIDX) features the lowercase letters "pidx" in a white, sans-serif font, centered on a dark green rectangular background.

❑ **POSC**

– posc.org/ebiz/Intro/xmlActivity.shtml

The logo for the Professional Office Systems Council (POSC) consists of the letters "P O S C" in a large, blue, serif font, each letter enclosed in a white rectangular box with a blue border, all arranged horizontally.

❑ **What is XML?**

– www.gca.org/whats_xml/default.htm

– www.geocities.com/SiliconValley/Peaks/5957/xml.html

The logo for the Graphic Communications Association (GCA) features the text "Graphic Communications Association" in a white, sans-serif font, centered on a dark blue background with a subtle, abstract pattern.

❑ **World Wide Web Consortium**

– www.w3.org/XML

The logo for the World Wide Web Consortium (W3C) features the letters "W3C" in a blue, serif font, with a registered trademark symbol (®) to the upper right, all on a white background.

❑ **XML and the Second-Generation Web**

– by Jon Bosak and Tim Bray

– www.sciam.com/1999/0599issue/0599bosak.html

The logo for Scientific American features the text "SCIENTIFIC AMERICAN" in a white, serif font, centered on a green background with a pattern of leaves and branches.

❑ **XML EDI**

– www.xmledi.com

XML Resource Sites - 3

XML - The Next Generation

- ❑ **XML Magazine**
 - www.xmlmag.com
- ❑ **XML One Conference**
 - www.xmlconference.com/xmlusa
- ❑ **XML.ORG**
 - www.xml.org
- ❑ **XML.COM**
 - www.xml.com
 - www.xml.com/xml/pub/listrescat
- ❑ **XMLIS**
 - www.xmlis.com



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