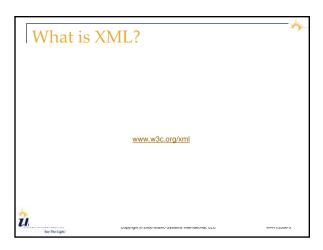








What is XML? A World-Wide Web Consortium (W3C) standard for structured text A language tool that provides a way to give more intelligence to data A technology which provides significant benefits for adopting organizations

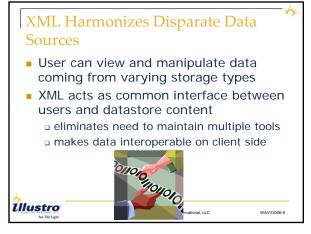


Benefits O	ffered by XML	
Open design	standards	
Non-propriet	tary definition	
Part of the "o	computing democracy""	
Allows inform	mation reuse	
 Improved life 	ecycle management	
 Increased av information 	vailability of enterprise	
Locate and d	deliver information effici	ently
Configurable	e information appearanc	е



How Does XML Do This? XML is platform-independent Data structure can be designed to support any organizational goals or requirements XML does not care what tools or processes you apply to your information XML abstracts content and structure and makes them visible to automated processes XML provides structured markup for documents and other information Copyright © 2006 (Blustro Systems International, LLC) WAVY2006-7

Structure Without Style XML documents do not carry formatting information inside them To specify how to render an XML document, you need to specify style information Two competing approaches XSLT: eXtensible Stylesheet Language CSS: Cascading Style Sheets Both are W3C standards





Illustro

Definitions of a Web Service A Web service is a software system designed to support interoperable machine-to-machine interaction over a network. It has an interface described in a machineprocess able format (specifically WSDL). Other systems interact with the Web service in a manner prescribed by its description using SOAP-messages, typically conveyed using HTTP with an XML serialization in conjunction with other Web-related standards.

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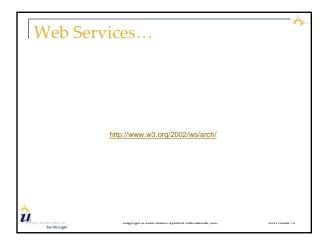
Definitions of a Web Service Some kind of function you can use across some kind of network Usually involve short interactions (connect, access code, disconnect) Discoverable, maybe ... Described with XML A Web Service is the exposure of a business process over a network lllustro

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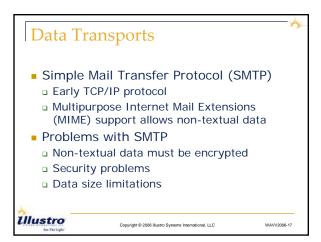


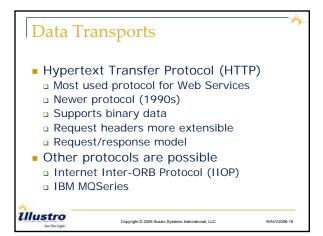






■ Web Service protocols do not define the physical (wire) or logical (application layer) protocol used to transmit requests and results ■ Typically the TCP/IP protocols used are □ SMTP □ HTTP







One of the most powerful concepts of Web Services is services discovery All of the key pieces of information to be given to the SOAP client can be given at runtime Quick example of how SOAP, UDDI and WSDL work together Copyright C 2006 Blustro Systems International, LLC WANY2006-19

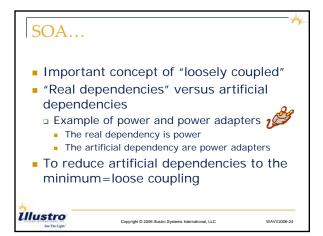






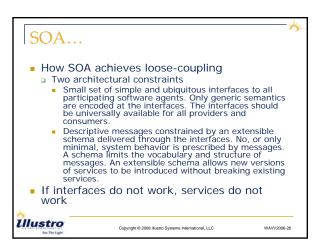
TCP/IP became a common denominator which gave us general connectivity Mass migrations have proven unrealistic Data Warehousing also unrealistic--- instead, more of a data and application mall Applications are just as important as the Data

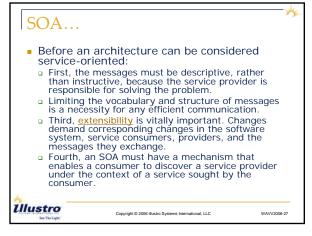






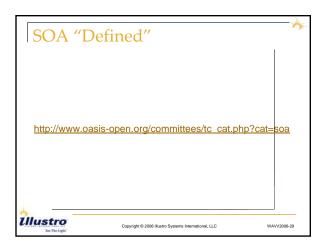
Goal of SOA is to achieve loose-coupling among interacting software agents TCP/IP is a great example of where that was accomplished Service providers and service consumers Why do this? Good software has already been written Not experts in everything Reuse continues to return on original investment "There's really no new code, only new languages?"

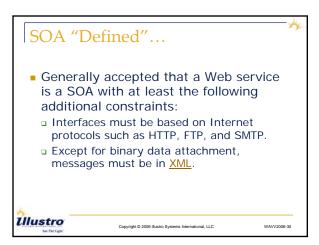




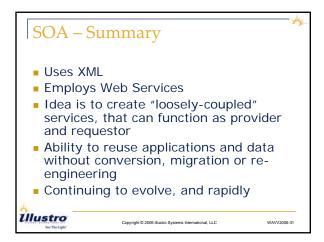


No official body "in charge" Subject to interpretation OASIS (Organization for the Advancement of Structured Information Standards) trying to bring some substance and clarity to the definition

















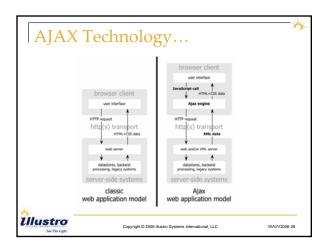




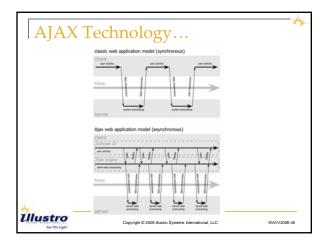


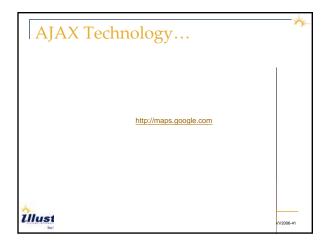
Web 2.0... Software above the level of a single device Design solutions that are usable in a variety of ways, and include multiple "devices" ITunes as an example – Back end server—local PC—handheld device Rich user experiences Flash one of the earliest experiences AJAX technology

AJAX Technology Asynchronous Javascript and XML Term coined by Jesse James Garrett of Adaptive Path Delivers desktop application functionality from a browser Microsoft jumped in with March 2006 announcement of Atlas



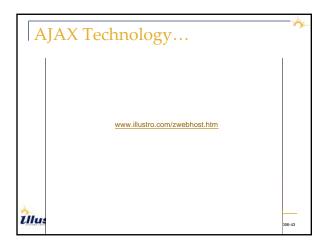


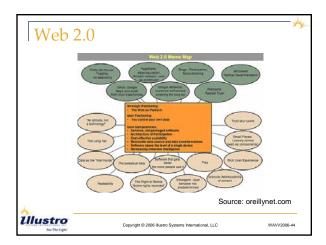
















VSE a	nd Mainframe Resources
SOAP SOAP SOA Ser SOA	A 2.7 and z/VSE 3.1 – Part of the VSE Connectors Server/Client AP Server allows CICS programs to be called as a Web vice from any SOAP-enabled platform AP Client can be used by a CICS program to invoke a b Service on another SOAP-enabled platform plemented as a CICS program using CWS
□ XMLA ■ Cal	. 5
and "sta	s can be implemented simply by using the protocols indards" Host and z/XML-Host
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More	Reading and Resources	Zm.
	new Class – "Connecting VSE to the World"	
■ XMI	ustro.com/education.htm	
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