

Global Blueprint for Interoperability at the Business Layer

Klaus-Dieter Naujok Chief Executive Officer and President Global e-Business Advisory Council UN/CEFACT Techniques & Methodologies Group (TMG) Chair Former ebXML Chair

What is (was) ebXML? "Creating a Single Global Electronic Market" ebXML enables anyone, anywhere to do business with anyone else over the Internet • A modular suite of technical specifications • Developed by OASIS and UN/CEFACT • Enables communications using open standards

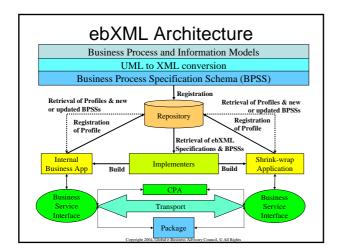
What was expected from ebXML?

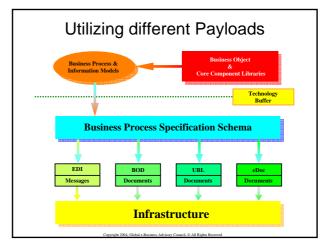
- Lowers the cost/complexity of electronic business
- Facilitates global trade and puts SMEs and developing nations in the picture
- Expands electronic business to new and existing trading partners
- Converges current and emerging XML efforts
- Eliminates dependence by supporting any language, any payload, any transport

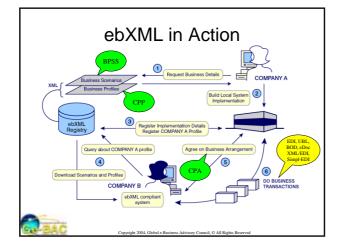
ebXML Specs - Modular Suite

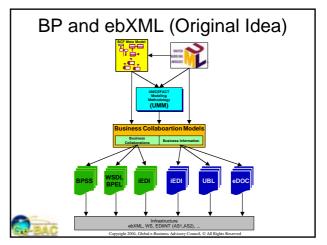
- Technical Architecture
- Business Process Specification Schema
- Registry and Repository
- Collaboration Protocol Profile and Agreement
- Message Services
- Core Components (2004)

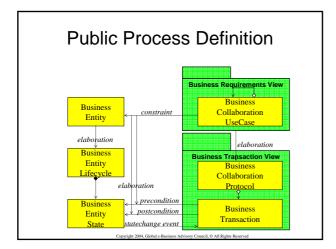


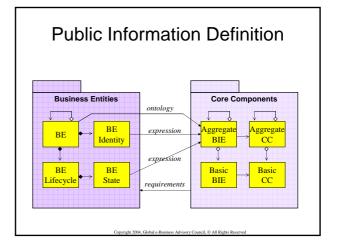


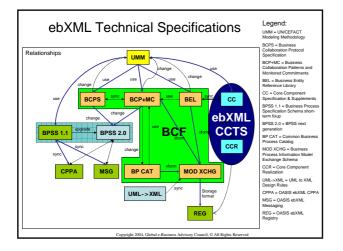


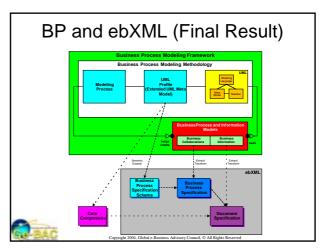


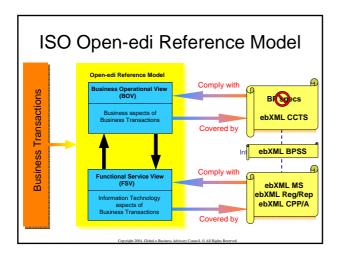


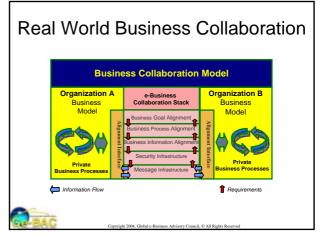


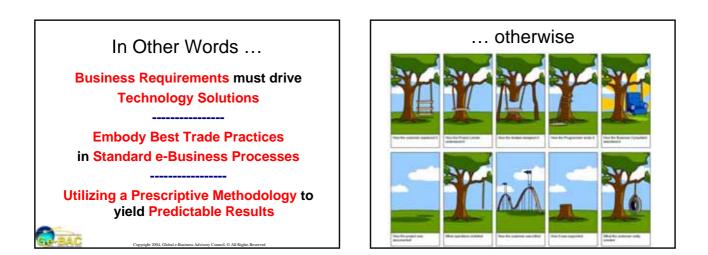






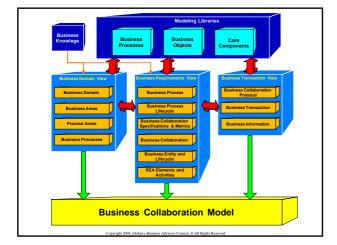


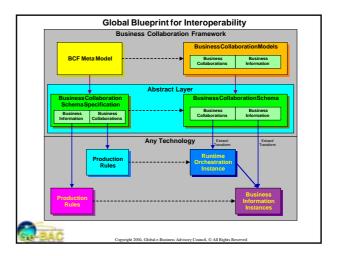


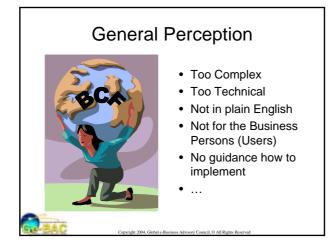


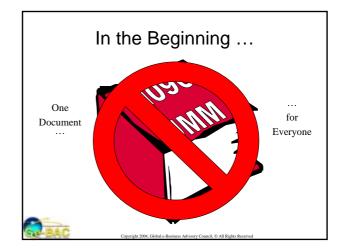
In (IBM System		••••	Zachma	an	, ,	590-616)
	What" DATA	Est? FUNCTION	Where' NETWORK	WIS? EXCEPTE	When? LINK	MI»? BIOTIVATION
Nempor (condectors) Ruisnere model (conceptual) System model (tagical)	ebXML CCTS	Busine	ess Colla	boration 1	Framewo	rk
Tasimology model. (physicale Componentia pro-presentations (put-66 emiscit) Fourthead system		•	ebXML	Infrastruc	cture	
-BAC	c	opyright 2004, Global d	-Business Advisory	Council, © All Rights	Reserved	

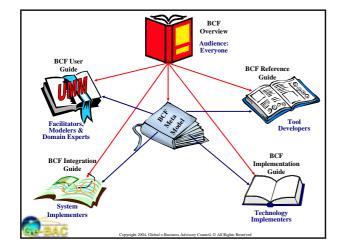
	RIVITITY WIRAT	MINC 1105	NETWORK	PEOPLE W280	TIME WINEN	MOTIVATIO
Scope Contract BCF (BDV)	There are a	Domain Mos	lel Reference	-		11
Enterprise Model (Conceptual) BCF (BRV)					Lanan Lanan Lanan Lanan	
System Model (Logical) BCF (BTV/BSV)			and and a second se			
Solari d'Holer (Parent) Société Representées (No d'Colori		Techno	ology Spec	ific Imple	mentatio	n







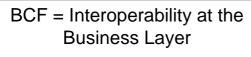




Recap: Principles for BCF solution

- Business requirements drive technology solutions
- Embody best practices in collaborative e-Business standards
- Focus on expected business results
- Applicable to both:
 - Analysis
 - Implementations





· The Benefits

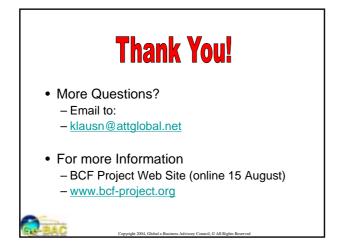
Complete Framework for Business and Technology Understanding and Integration

- Provides the means for legally binding Internet enabled Business and Administrative Communities
- Rationalized and Standardized Processes and Information
- Allows any Technology Implementation without changing the Business Requirements
- Protection of existing Investments
- Allows Software Producers to provide "Plug and Play" SME Solutions

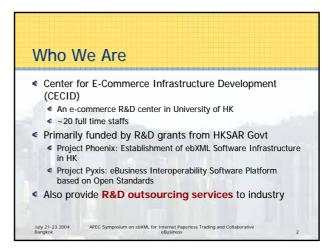
So What is Missing?

- Acceptance of Business Collaboration Models as the foundation to define Business Requirements to drive the implementation
- Acceptance of an ebXML CC Library (maintained by UN/CEFACT) for use by all domains/sectors (industries and governments)
- The need for UN/CEFACT to step forward in its efforts to align/establish global procedures and best practices for all domains/sectors
- Global cooperation and coordination

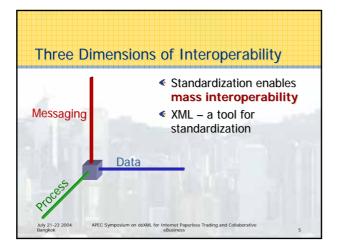


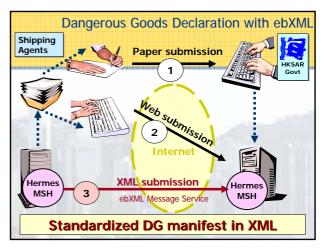


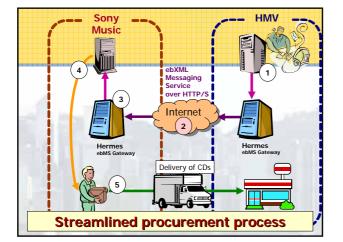


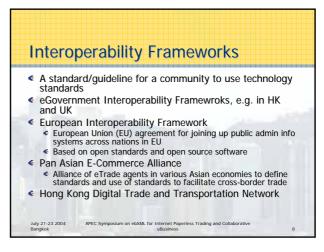








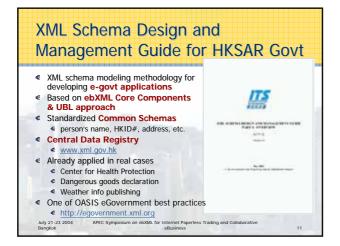


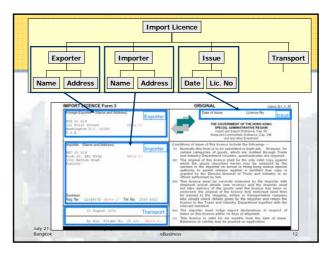


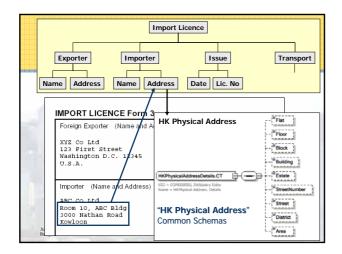


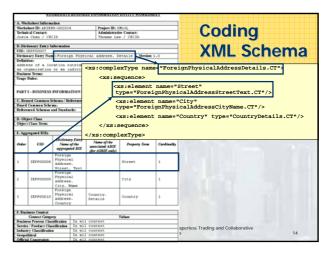
Technical Interoperability Guidelines

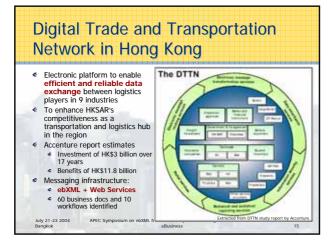
	Interoperability area	Recommended specification(s)	Are the specifications relevant to submissions under ETO ?	Remarks	
	Simple functional integration in an open environment (e.g. information retrieval from a remote application)	The suite of core Web Services standards : SOAP v1.1 for remote service invocation WSDL v1.1 for remote service description (where necessary) UDDI v2 for the publication and discovery of remote service descriptions	No	When project teams select tools to implement Web Services, they are recommended to the into consideration the tools' conformance to the WS-T's Basic Profile 1.0.	
July 2	Reliable document exchange between application systems in an open environment for business document- oriented collaboration	ebMS v2	B/Ds will promilgate explicit requirements where relevant	Standards for reliable messaging are also emerging under the Web Services firmework? Jonied-up applications that are following Web Services standards should agree among the stakeholders on whether to adopt ebMS or some alternate protocol for reliable document exchange. Although ebMS is not widdy supported by the major vendors, its open source implementations can be considered	

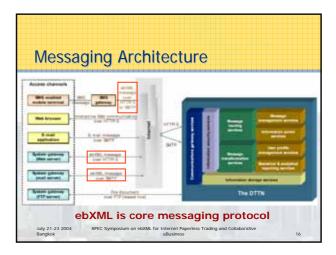










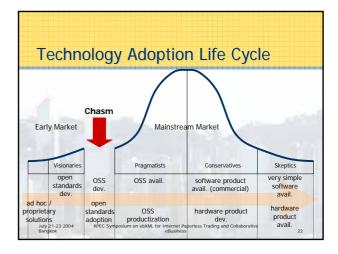


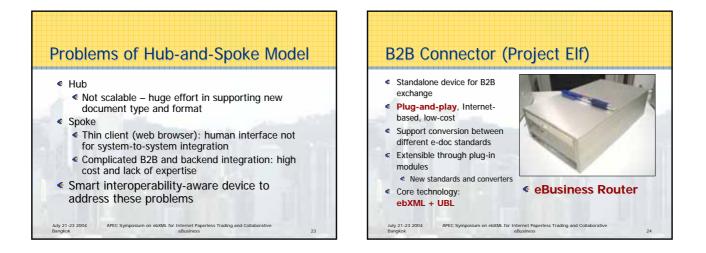
XML as Can Transforma	onical Forma tion	it for Data
	mong <mark>60 documen</mark> ats – horrendous job	
document standa How to define ma	Standards Group and for 60 documents apping data between	1.
document standa	ard for 60 documents apping data between	1.

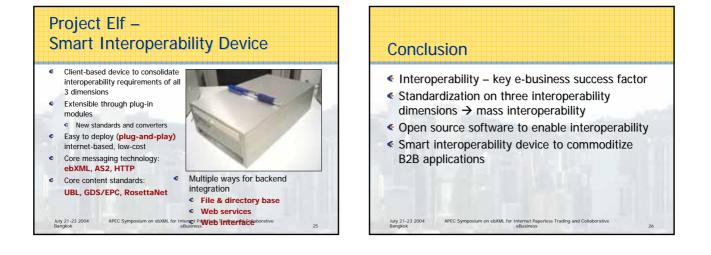


Hermes ebMS Handler	ebMail
Implemented ebXML Messaging Service V2	eBusiness mailer for small businesses – low cost and simple
Open-sourced since September 2002 Recorded downloads from 60+ countries	 Provides user interface for composing and view documents easily and exchange documents through ebMS V2 over HTTP
Passed ebXML Asia Committee Interoperability Test	No dedicated Internet connection and server required
 Developers from an European vendor taking Hermes to enter Europe Interoperability Test 	Supports data import from and export for office applications, e.g. spreadsheet
 Next version aims at multiple protocol: ebXML + WS-Reliability Many production cases in Hong Kong and overseas 	 Extensible through plug-in modules for handling different business processes and documents
 Sony Music and HMV: procurement of CDs, VCDs and DVDs 	Being deployed in Malaysia Customs to communicate vessel info
 HKSAR Govt and shipping companies (e.g. OOCL): submission of dangerous 	Developed POC in Japan to support oil drum recycling
goods manifests to HKSAR Govt Spherion in Australia: transaction of training services with Telstra	Universal Business Language (UBL) support in next version
 Some international vendors use Hermes to develop commercial products 	ebXML + UBL e-commerce mailer → Mosaic of E-Commerce?
July 21-23 2004 APEC Symposium on ebXML for Internet Paperless Trading and Collaborative Bangkok eBusiness 19	July 21-23 2004 APEC Symposium on ebXML for Internet Paperless Trading and Collaborative eBusiness 20

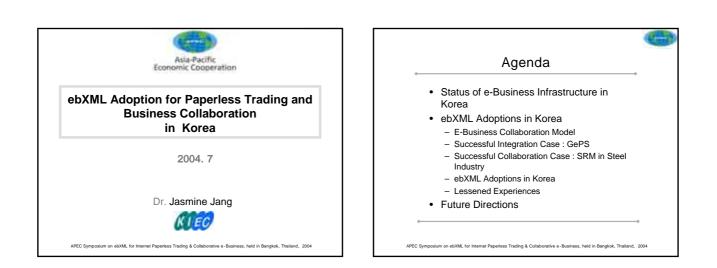
P
-
Mart Norm (Market) Bloom (Market) Mar COA All All All CA (Market) Coa Market (Market) All CA (Market) Coa Market (Market) All CA (Market) Market (Market) All CA (Market) Market (Market) All CA (Market) Market (Market) All CA (Market)







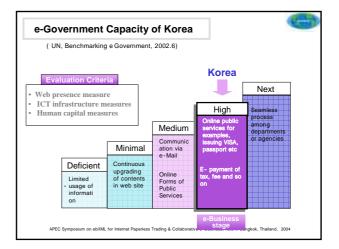


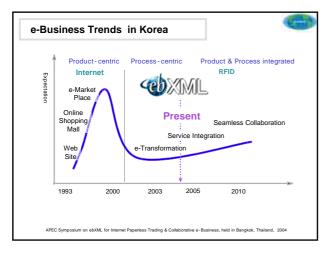


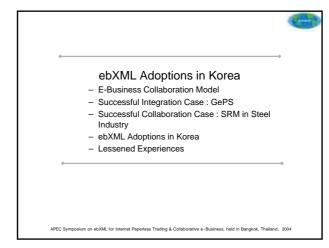
	Û
Status of e-Business Infrastructure in Korea	, ,
APEC Symposium on ebXML for Internet Paperless Trading & Collaborative e-Business, held in Bangkok, Thailand,	2004

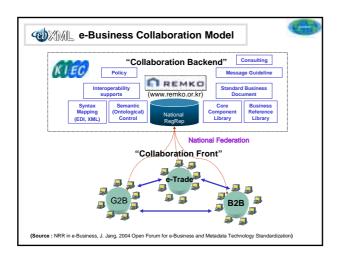
Korea e-Co	ommerce	Market V	olume		C.
G2B B2C 3%		thers 0%	 B2B B2C G2B Others 	(Unit:	USD Billion)
		2000	2001	2002	2003 (Estimate)
	B2B	43.61	90.99	130.87	165.17
	B2C	0.61	2.15	4.13	4.95
	B2G	-	5.86	12.10	14.85
	Other	3.71	0.35	0.44	0.33
	Total	47.93	99.15	147.54	185.34
	on ebXML for Internet				

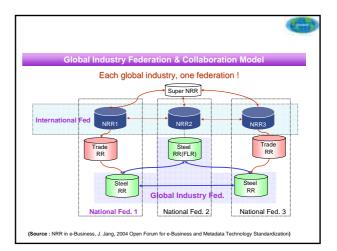
lorea e-Re	adiness				
South Korea, the	world's most dense	ly penetrated broa	dband market at 279	% of the populat	
Country	Score	e-Readiness Ranking			
	(2004)	2004	2003	2002	
Denmark	8.28	1	2	7	
Britain	8.27	2	3	3	
Sweden	8.25	3	1	4	
Norway	8.11	4	7	11	
Finland	8.08	5	6	10	
USA	8.04	6	3	1	
Singapore	8.02	7	12	11	
Netherlands	8.00	8	3	2	
Hong Kong	7.97	9	10	14	
Switzerland	7.96	10	8	4	
Canada	7.92	11	10	9	
Australia	7.88	12	9	6	
Germany	7.83	13	13	8	
Korea	7.73	14	16	21	
Austria	7.68	15	14 a a-Business held in Band	13	

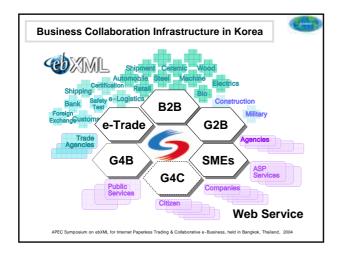


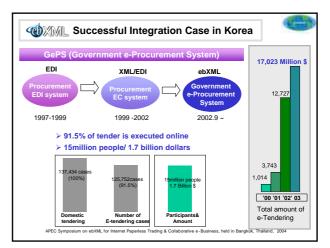


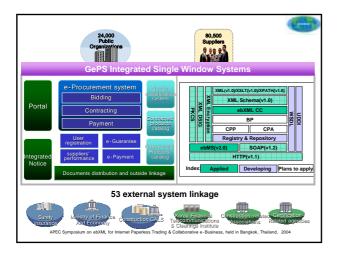


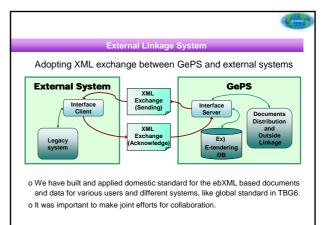




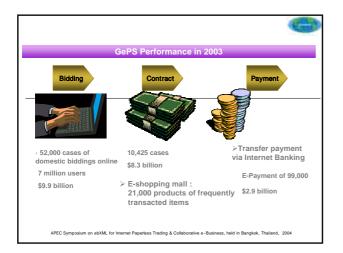






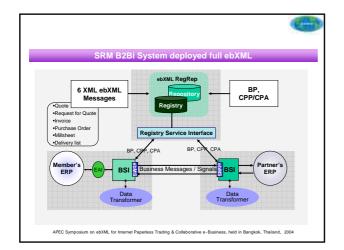


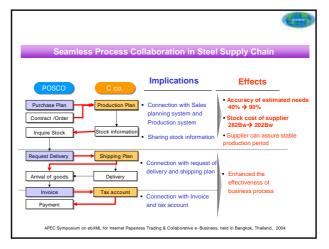
APEC Symposium on ebXML for Internet Paperless Trading & Collaborative e-Business, held in Bangkok, Thailand, 2004

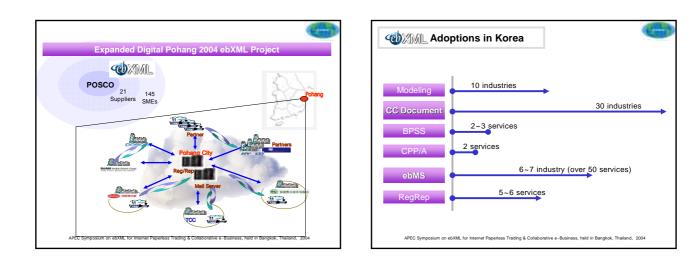


	16				-
	Korea Ge	PS Documents			
bXML documents	s & transac	tions in 2003	Gloł	al	
Description of documents	No. of documents	No. of transactions	Stan	dardizati EFACT	••.
Purchasing request	20	643,760	in 20		1000
Contracts	28	875,735		•••	
Bidding documents	9	10,238,455		ewed 10 c	
Guarantee	8	39,568		and 11 do	
Payment	33	1,010,548		considerir	
Communication	21	52,569	charac	teristics a	nd role
General Doc., etc.	47	88,876		cuments f	
Total	166	12,949,511		BG6 and (
	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		mmonly u	
			the sa	me purpos	se
				New	Revise
			ABIE	17	3
			BBIE	109	10











Prefers ebXML document based on core component

- Saves cost and developing timeenhances the business collaboration and interoperability

Verified scalability and reliability of ebXML message transfer

- is considered as recommended technology via eAC ITG Interoperability test • offsets the hurdles of enlarged volume of XML messages due to reliable messaging

Needs to inform ebXML widely

•is difficult to expand to adopt ebXML because of low awareness in market

Needs harmony with web service

 is well executed only between two partners but, multiple collaboration Both hands of ebXML and web services

Increases the importance of interoperability more and more

- There are lots of different types of e-business system
- APEC Symposium on ebXML for Internet Paperless Trading & Collaborative e-Business, held in Bangkok, Thailand, 2004

