




RosettaNet Governing Process

RosettaNet Executive Board	Individual Supply Chain Boards	RosettaNet Partners
<ul style="list-style-type: none"> • Provide overall guidance • Address prioritization and integration across boards 	<ul style="list-style-type: none"> • Address SM supply chain-specific issues • Prioritization • Resources • Implementation and adoption  X 3	<ul style="list-style-type: none"> • Vote on standards • Participate in workshops • Implement 

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Information Technology (IT) Supply Chain Board

3Com	Hewlett-Packard	Pioneer
Arrow Electronics	IBM	Quantum
Avnet	Ingram	SAP
Cisco Systems	Insight	Siemens
Compaq	Intel	Solectron
CompUSA	Lucent Technologies	Tech Data
Dell	NEC	Trilogy
Federal Express	Netscape	UPS
GSA	Office Depot	

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Electronic Components (EC) Supply Chain Board

Agilent	Intel	Pioneer
Altera	Kemet	Samsung
Arrow Electronics	Lucent Technologies	Solectron
Avnet	Memec	Sony
AVX	Micron Technology	STMicroelectronics
Bourns	Molex	Texas Instruments
Cisco Systems	Motorola	Toshiba
FCI	National	Tyco Electronics
Future Electronics	Nokia	Xilinx
Hitachi	NEC	
IBM	Philips Semiconductors	

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Semiconductor Manufacturing (SM) Supply Chain Board

Air Products & Chemicals	Micron Technology	Sumitomo Metal
Agilent Technologies	Motorola	Texas Instruments
Amkor Technology	National Semiconductor	TOK
Applied Materials	NEC	Tokyo Electron
ASE	Philips Semiconductors	Toppan
Chartered Semiconductor	Samsung Electronics	Toshiba
Intel	Shin-Etsu Handoutai	TSMC
JSR	Shinko Electronics	UMC
LSI	SPIIL	Winbond
Lucent Technologies	Sumitomo Bakelite	Xilinx

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What RosettaNet standardizes

- RosettaNet does not define how trading partners do business together
- RosettaNet does, however, define how trading partners exchange information
- RosettaNet does not build or sell software but instead works with industry thought leaders to develop business process specifications

Industry Recognition

In a special year-end issue of tomorrow's **LEADERS**, RosettaNet is named a **TOP 10 WINNER OF 2000** by InternetWeek. 12.18.00

"RosettaNet is arguably the **MOTHER OF ALL** industry-specific **XML EFFORTS**." eWEEK 2.26.01

RosettaNet is "one of the **MOST AMBITIOUS** inter-enterprise content and process integration efforts currently underway." Patricia Seybold Group 4.3.01

"RosettaNet's e-business communications standards are **GIANT STEPS** on the journey toward **SOLVING** some of these problems." CRN 3.19.01

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Why Standardize XML

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Why XML?

- Simple to represent richly structured data in an unambiguous, extensible, non-proprietary way
- Readily available, easy-to-integrate parsing and validation technology
- Ideally suited for data exchange over the Internet using well-established transfer protocols

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Why Standardize?

- Competitive pressure to achieve extreme operational efficiency
- Competitive pressure to create additional business value
- Makes integration efforts efficient and repeatable
- Promotes loose coupling of trading partners, allowing for rapid reconfiguration of supply webs
- Leverages expertise and experience of those that have come before you

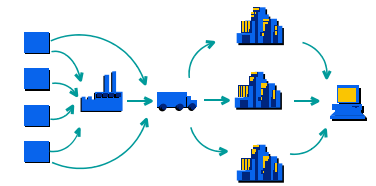
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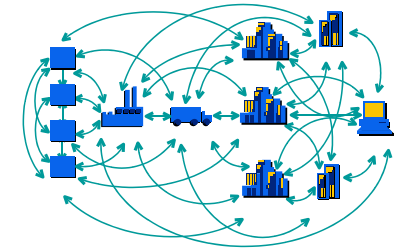
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Why Standardize?

Transition from linear supply chain ...



...to dynamic supply web



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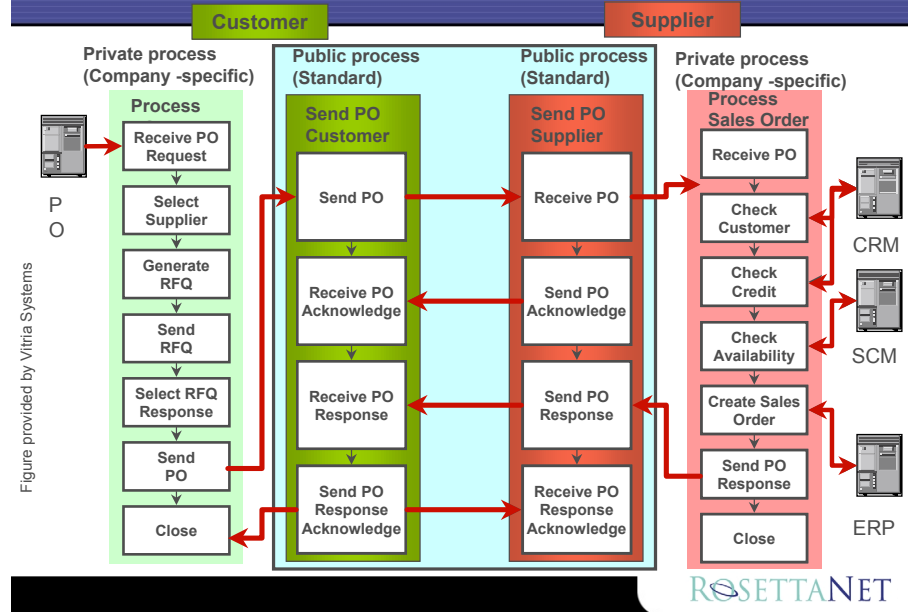
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RosettaNet PIPs™

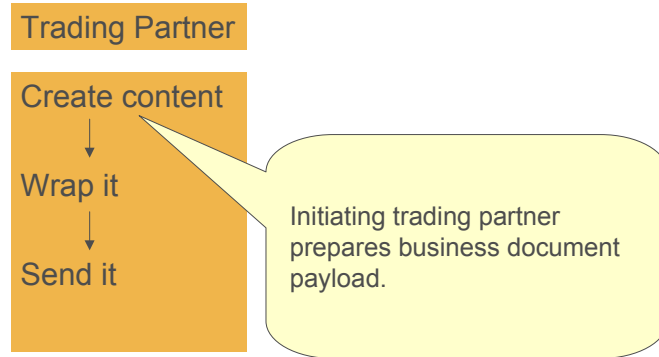
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Partner Interface Processes™ (PIPs™)

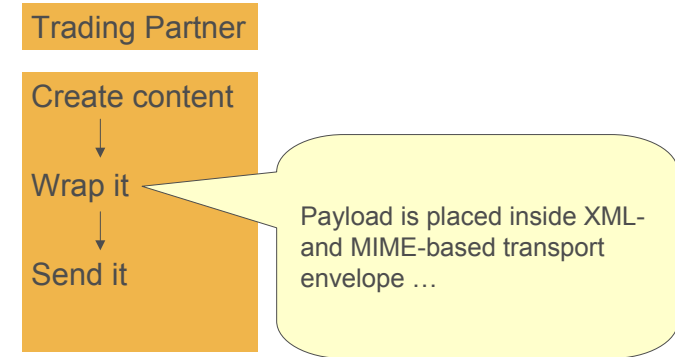


30,000 ft View of the Technology

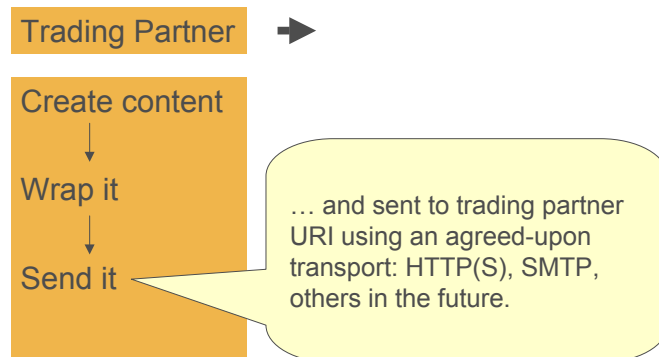
- It is conceptually very simple.



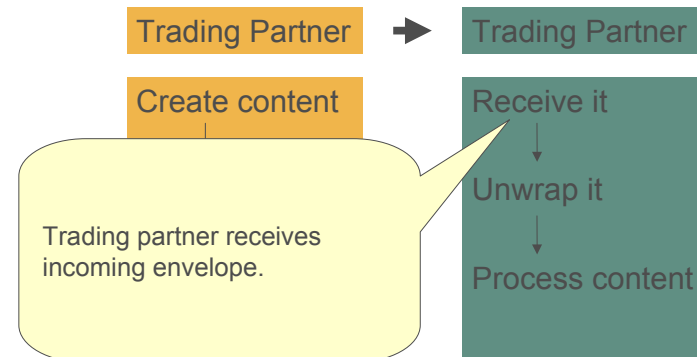
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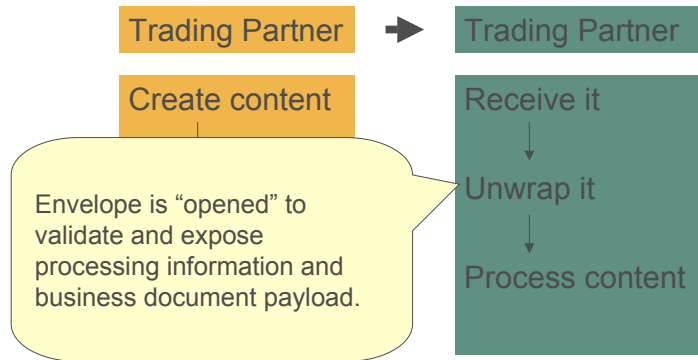
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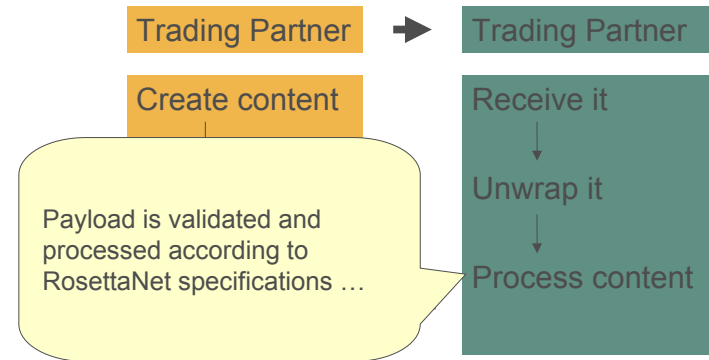
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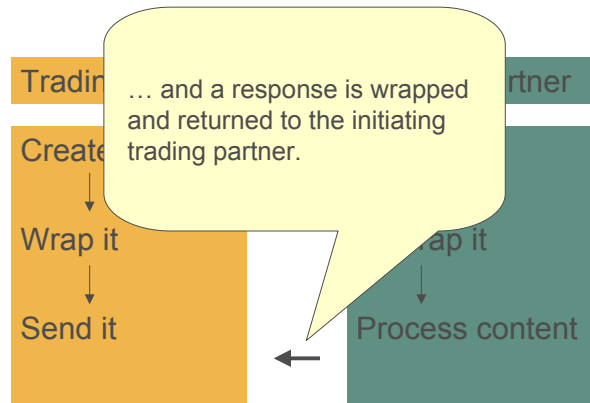
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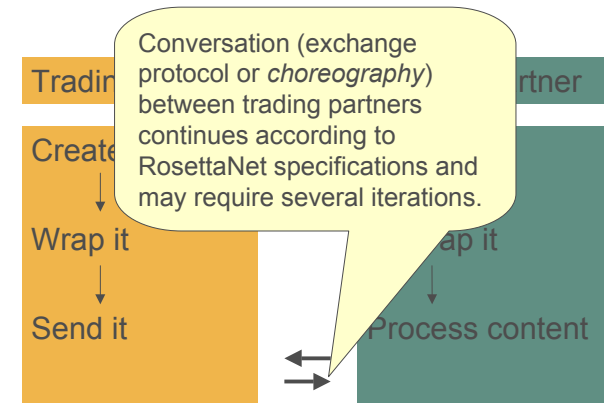
30,000 ft View of the Technology



30,000 ft View of the Technology

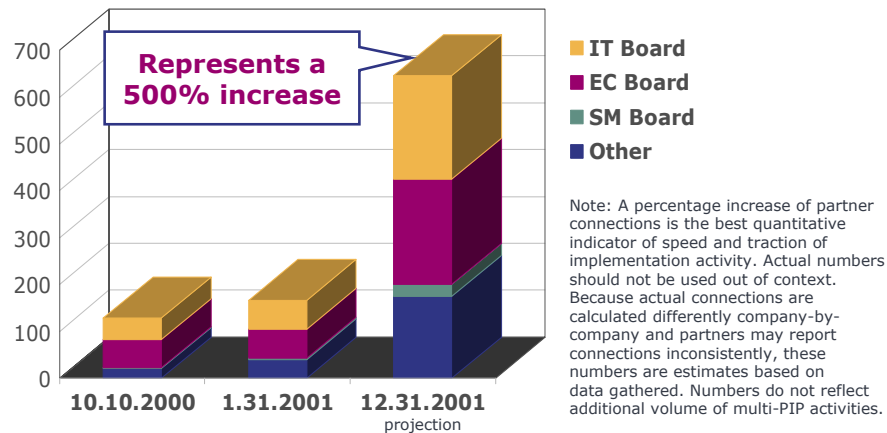


30,000 ft View of the Technology



Implementation Today

Partner Connections with at least one PIP™

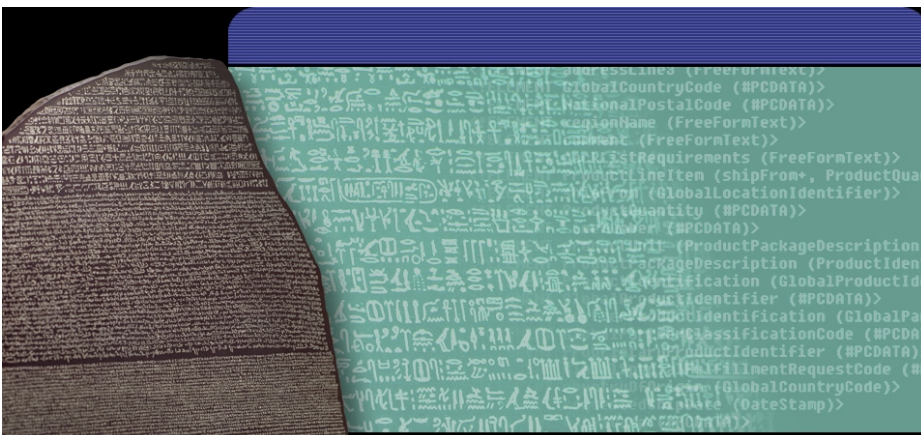


IMPLEMENTATION SUCCESS

Implementation Successes

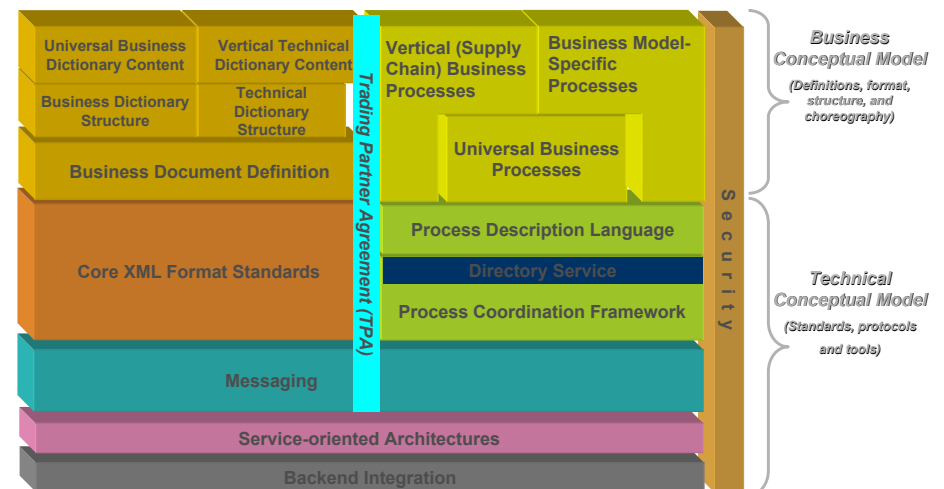
Partners	Implementation	Results
Arrow & Carrier	Up and running in six weeks	Reduced a 5-day batched delivery cycle to overnight ; results in inventory reduction, improved customer satisfaction
Bourns & TTI	Implemented PIP™ 3A2 in two weeks	New process converted access to inventory information from a week's delay to real-time data; improved customer service
Compaq & Delta (Taiwan)	Implemented PIP 3A4 and PIP 3A7	Reduced the order processing lead time to several minutes ; enabled Compaq to receive the P.O. acknowledgement immediately and allowed departments involved in the process to receive related information in real time
Intel & WPI (Taiwan)	Implemented PIP 3A4 and PIP 3A7	Automated process reduced the cycle time for order processing between the companies
Samsung & Sony	First implementation between Korea- and Japan-based partners	Moved into production this month; expected to shorten lead time

IMPLEMENTATION SUCCESS

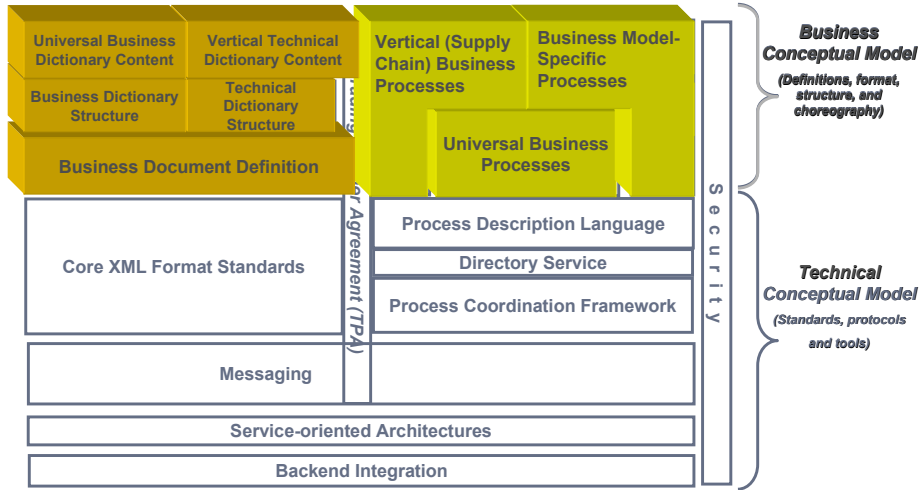


B2B Conceptual Architecture

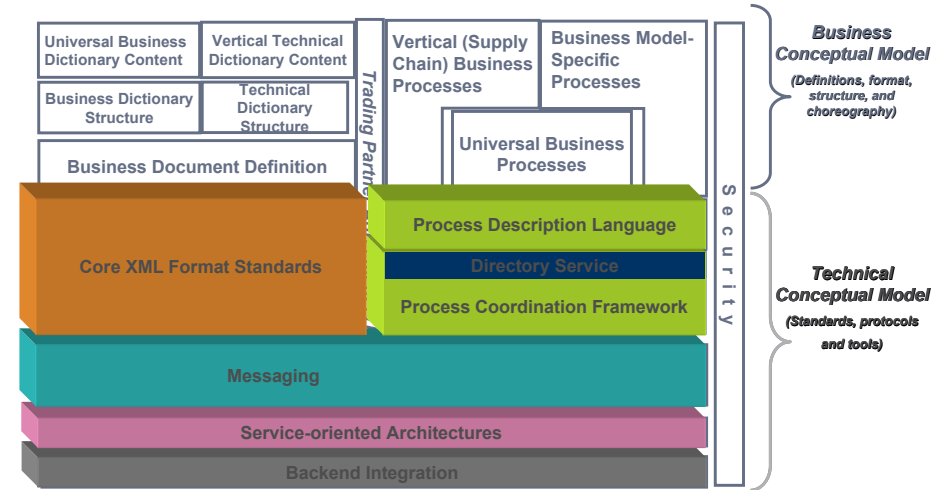
Conceptual Architecture



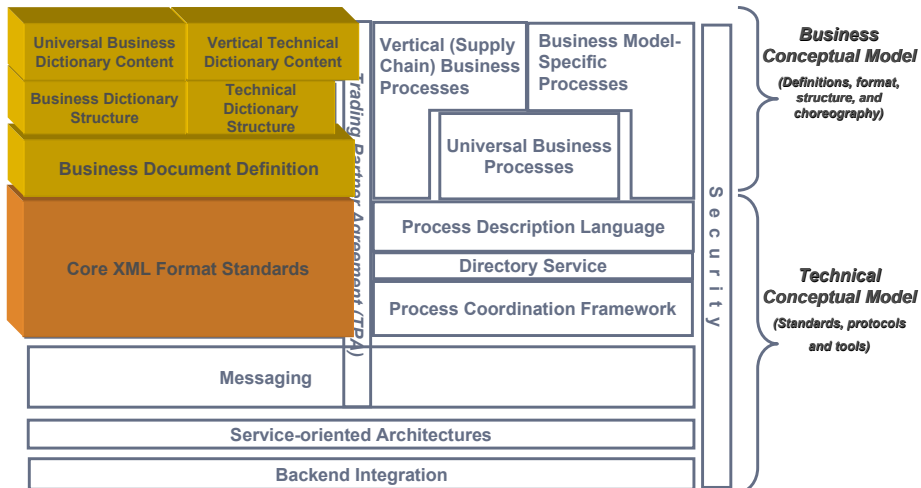
Business Conceptual Layer



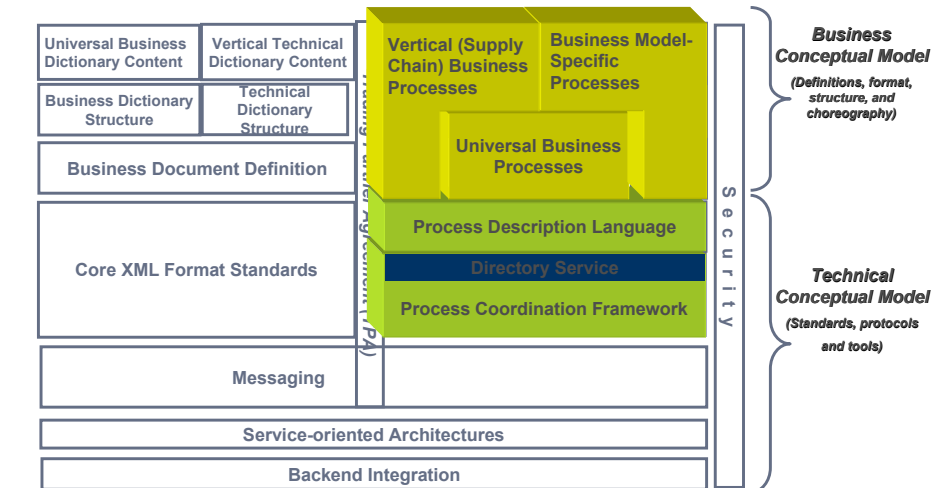
Technical Conceptual Layer



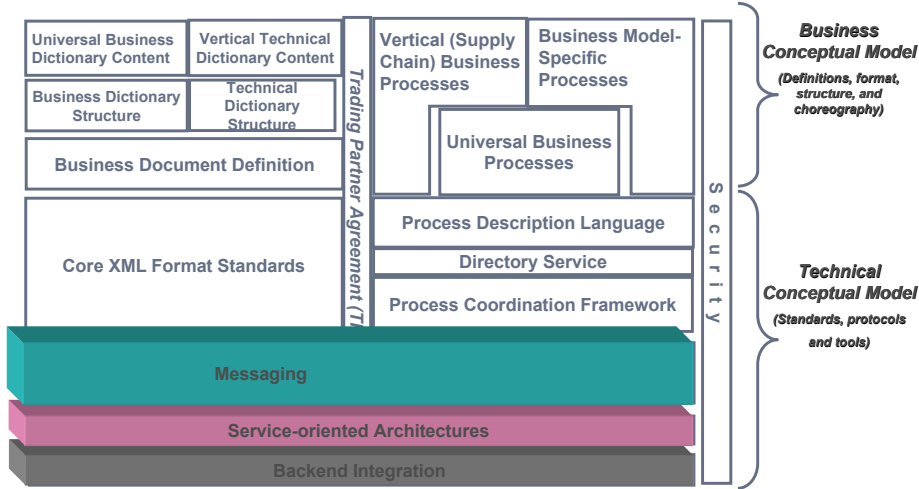
Business Document Stack



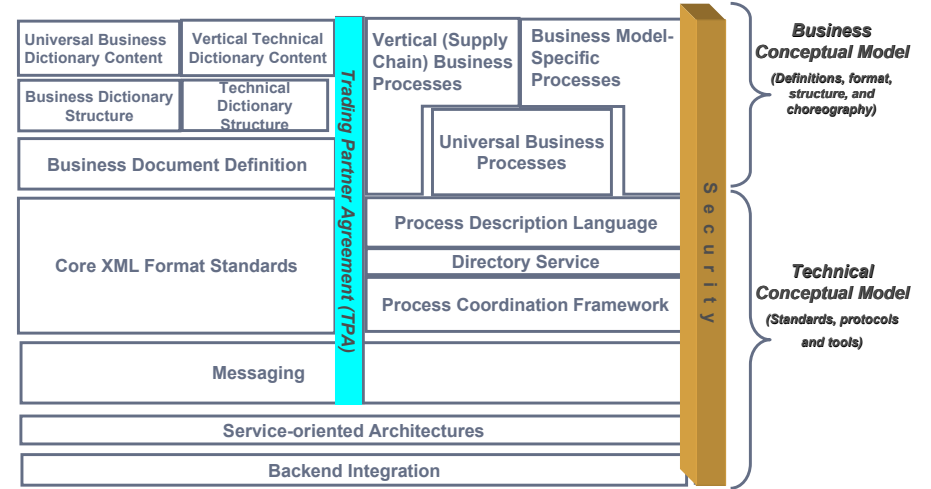
Business Process Stack



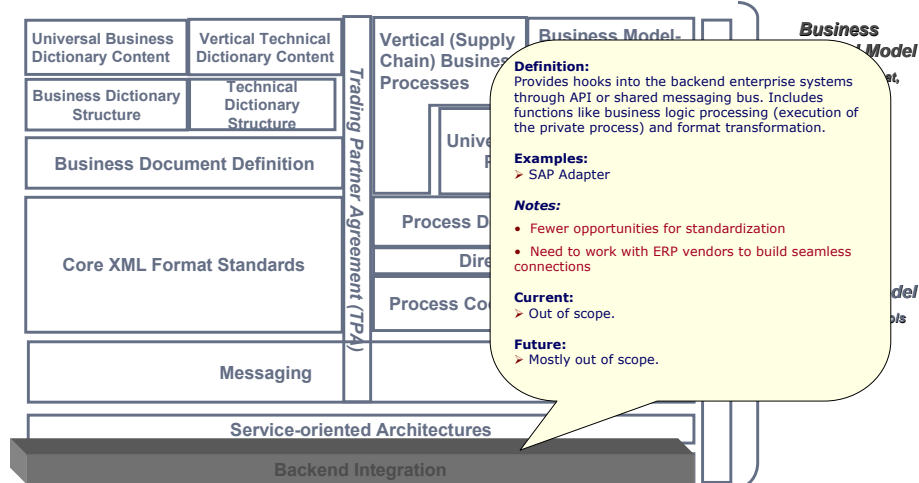
Execution Component Stack



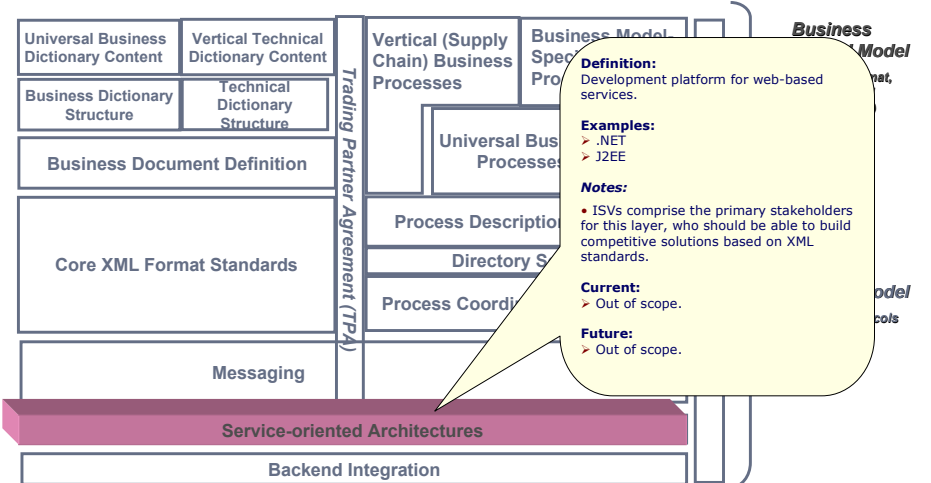
Binding Components



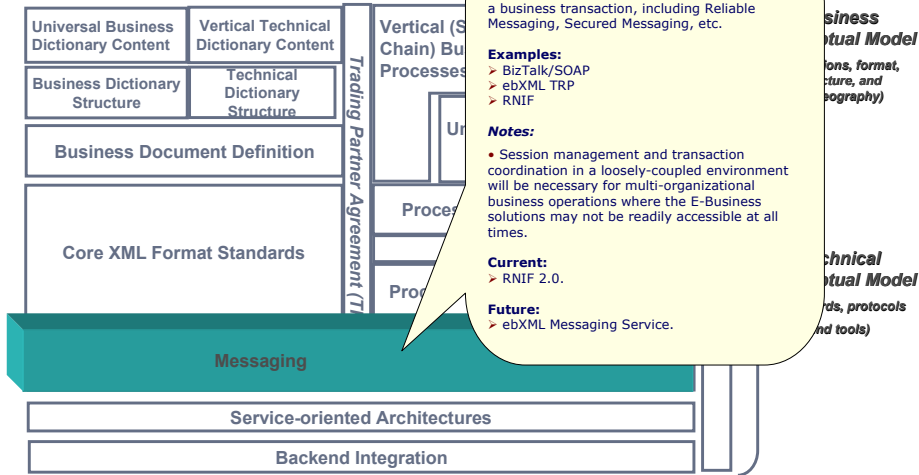
Backend Integration



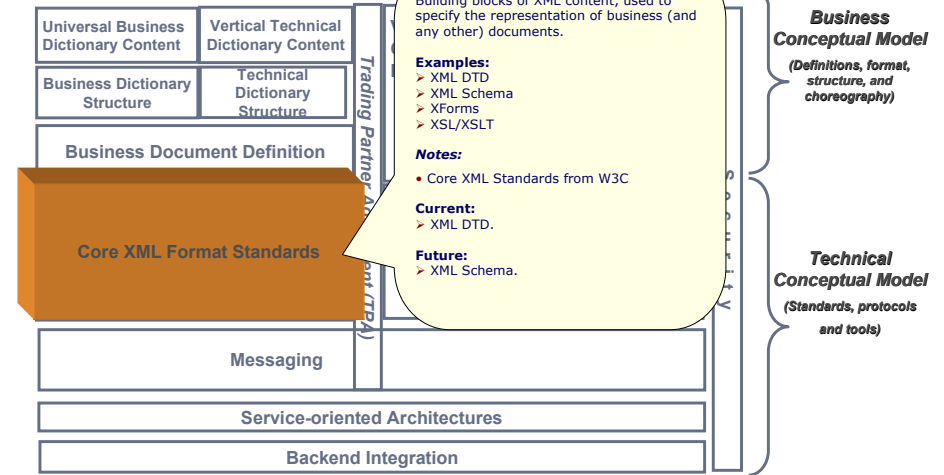
Service-oriented Architecture



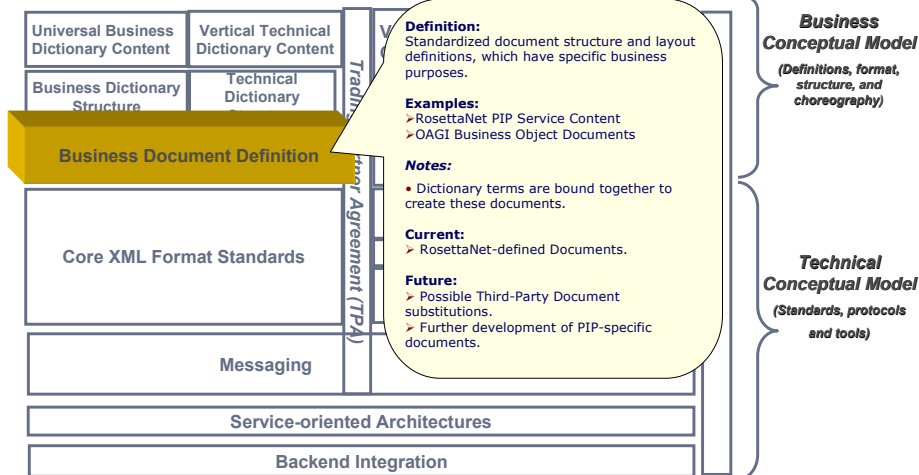
Messaging



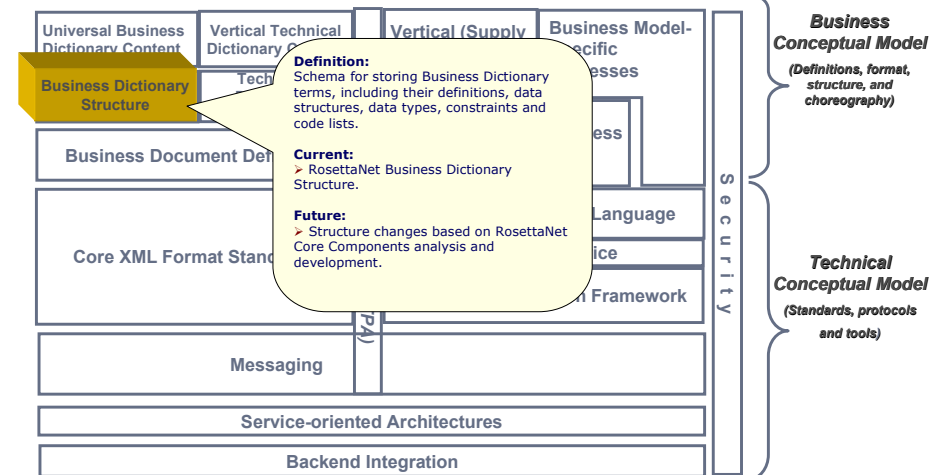
Core XML



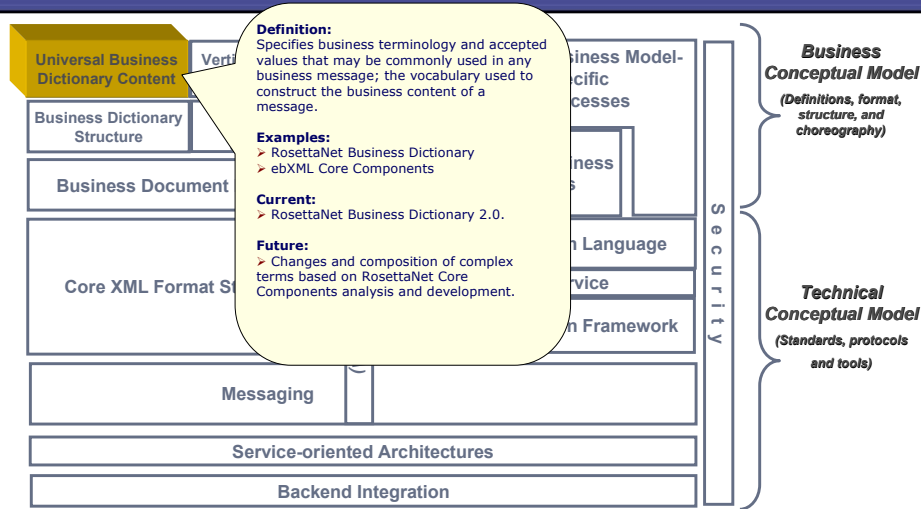
Business Document Definition



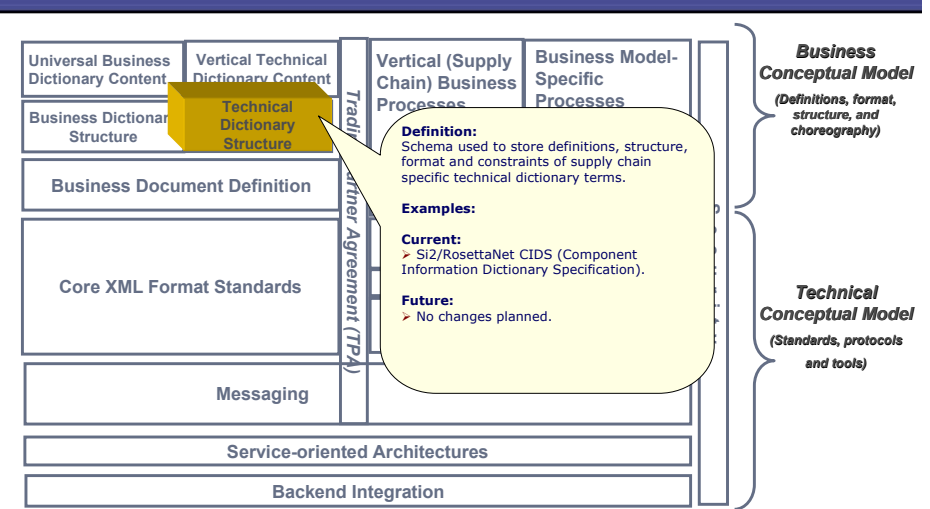
Business Dictionary Structure



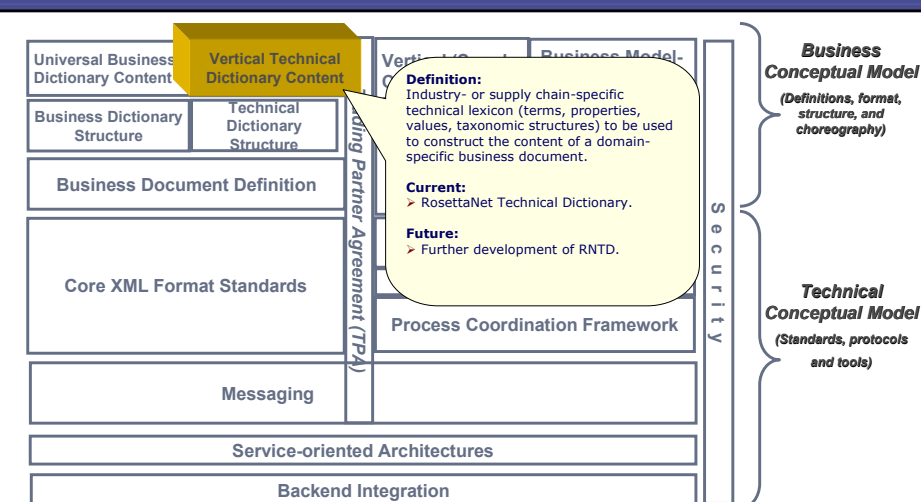
Universal Business Dictionary Content



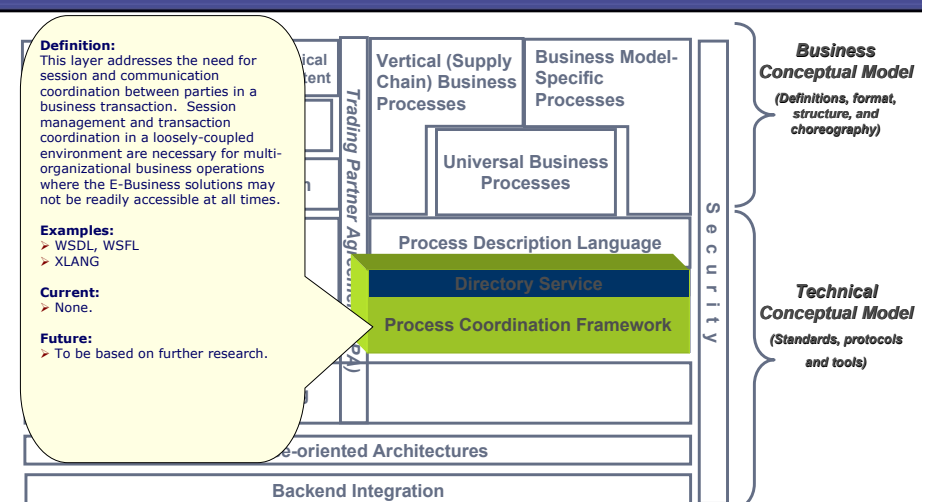
Technical Dictionary Structure



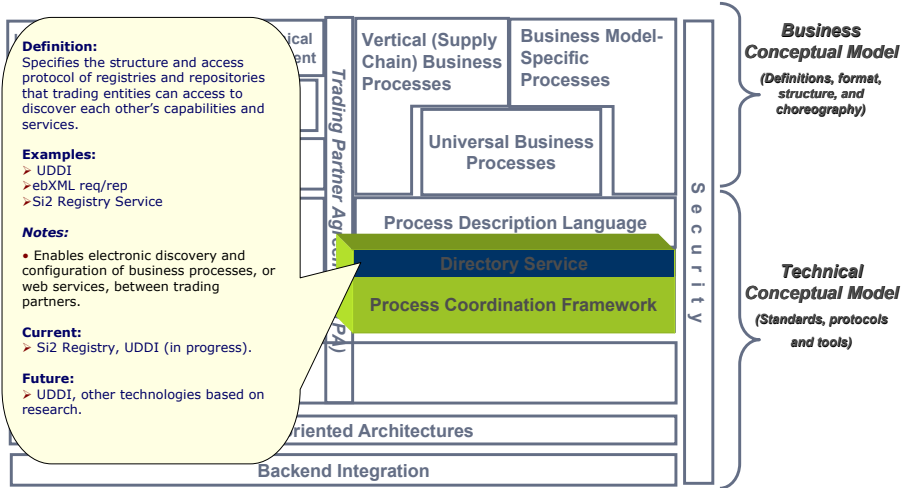
Vertical Technical Dictionary Content



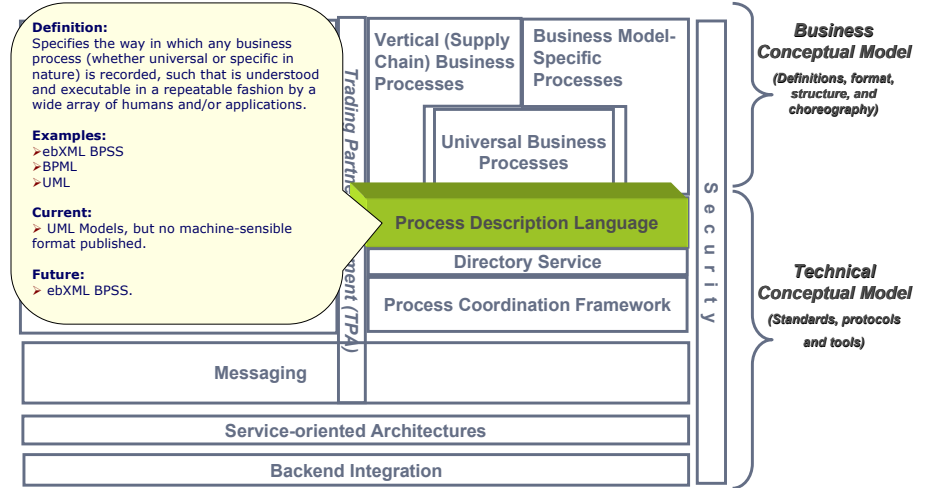
Process Coordination Framework



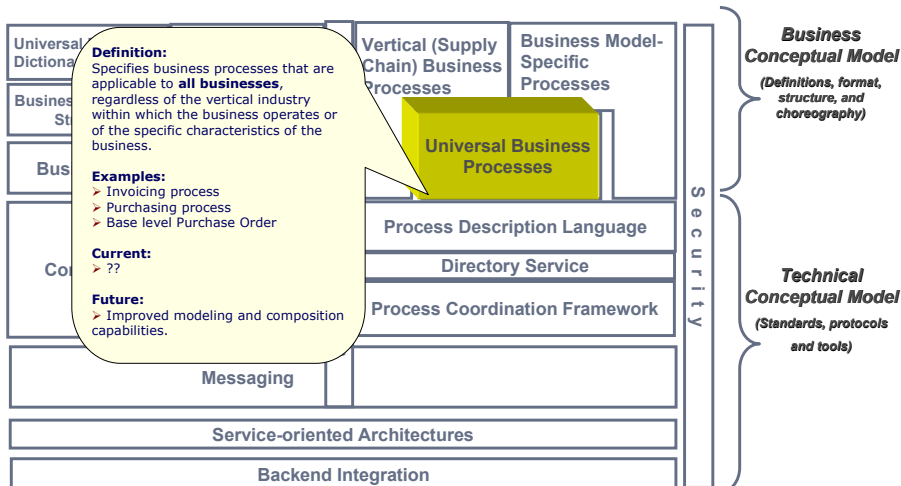
Directory Service



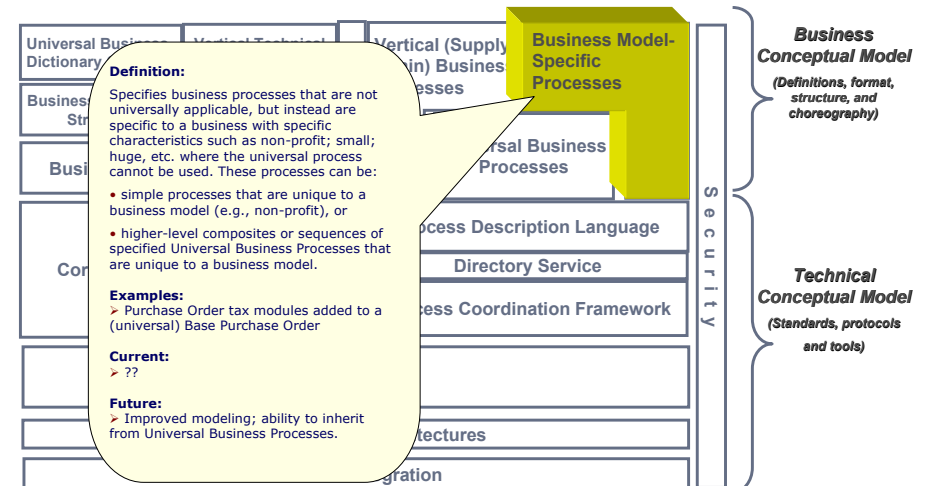
Process Description Language



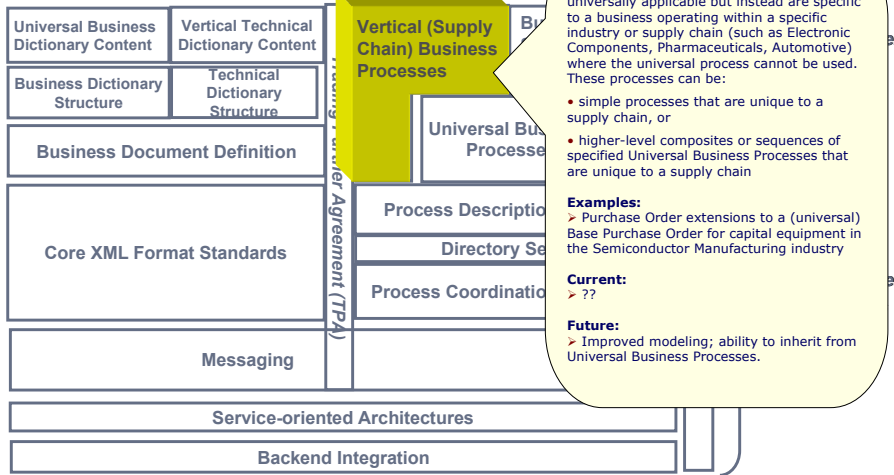
Universal Business Processes



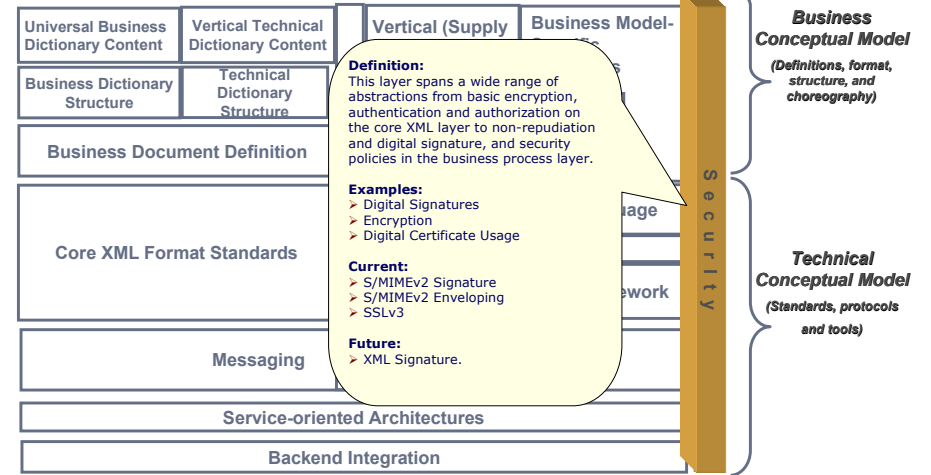
Business Model Business Processes



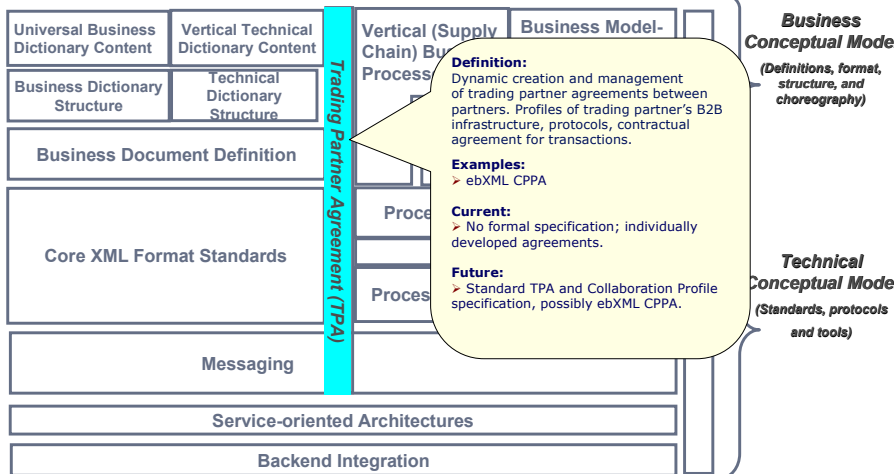
Vertical Business Processes



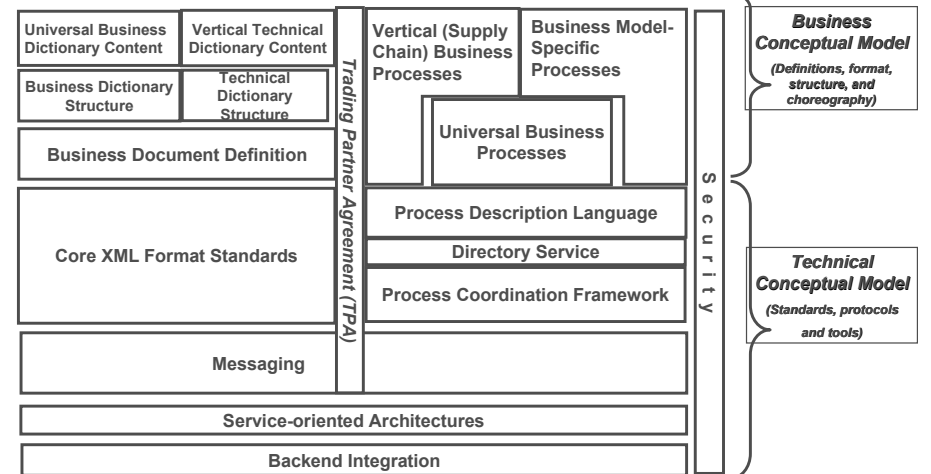
Security



Trading Partner Agreement



Conceptual Architecture





Standards Convergence

Convergence Opportunities

- Not all standards efforts are created equal!
- We need to better utilize existing standards not create new ones
- Of the various standards components most standards efforts focus on **business content**
- Creating **business process** standards is very difficult
- RosettaNet has created and published a **production-ready framework based on XML**

RosettaNet Position on Standards Convergence

- RosettaNet will continue to track new horizontal standards efforts...
- Rosettanet is committed to adopting elements of the architecture when they become broadly accepted horizontal standards...
- Rosettanet will provide smooth transition to new horizontal standards as adopted...

Standards Transition

Announced

- Future releases of RNIF will include support for the ebXML's TRP (Messaging Service Specification). *May 2001.*
- 83 RosettaNet PIPs registered within the UDDI Universal Business Registry, *April 2001.*

Ongoing

- RosettaNet contributing to ebXML's BPSS (Business Process Specification Schema) for documenting PIPs in XML.
- RosettaNet contributing to UN/CEFACT BL (core components)

Acknowledgements

- RosettaNet
 - Pete Wenzel Chief Architect
 - Jennifer Hamilton, CEO
 - Paul Tearnen, VP Standards
- WebMethods
 - Mitch Shue, former RosettaNet Chief Architect
- Intel:
 - Jackson He,
 - Steve Agritelley
- Business Internet Consortium



Appendix: Glossary

Glossary of Terms

authXML	Authentication and Authorization Information in XML
BIC	Business Internet Consortium
BPML	Business Process Modeling Language
BPMI	Business Process Management Initiative
BTP	Business Transaction Protocol
cXML	Commercial Extensible Mark-up Language
ebXML	E-business XML Initiative
ECIX	Electronic Component Information Exchange
IEC	International Electrotechnical Commission
JETIA	Japan Electronics and Information Technology Industries Association
NEMI	National Electronic Manufacturing Initiative

Glossary of Terms

OAG	Open Applications Group
OASIS	Organization for Advancement of Structured Information Standards
OBI	Open Buying on the Internet
S2ML	Security Services Mark-up Language
Si2	Silicon Integrated Initiative
SOAP	Simple Object Access Protocol
tpaML	Trading Partner Agreement Mark-up Language
UDDI	Universal Description Discovery and Integration
UCC	Uniform Code Council
UN	United Nations
VFIIIP	Virtual Factory Information Interchange Project
W3C	World Wide Web Consortium
XAML	Transaction Authority Mark-up Language
xCBL	XML Common Business Library

