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***Enabling enterprises of any size, in any global region,  
to conduct business using the Internet.***

## **ebXML Adoption Update**

December 2003

### **Executive Summary**

The OASIS ebXML Awareness Team has prepared this document in collaboration with OASIS member organizations and partners to give a global picture of the current status of ebXML adoption<sup>1</sup>. Our aim is to increase awareness of the substantial amount of ebXML-related activity occurring throughout the world today. This report—which represents our best initial and ongoing research at this time and may not be exhaustive—summarizes the status of close to 100 completed, ongoing or progressive ebXML-related projects. ebXML is unique in the breadth of its standards vision and arguably represents the culmination of all previous standards efforts toward a shared global Internet-based B2B framework. ebXML is complementary to many existing standards, such as legacy EDI, XML-based business document standards, and Web Services. Decision makers, involved in global B2B commerce and responsible for making B2B infrastructure investments must evaluate their business strategies and consider the likely need to support trading partners who will want to engage electronically using ebXML protocols.

No truly successful technology or standard is an island. It is therefore exciting to witness ebXML adapting, evolving and growing through research and deployment around the world. Over 2,000 people contributed to the original ebXML development efforts, made public in May 2001. Since then, continuing standards development, pursued jointly by OASIS and UN/CEFEACT, has been augmented by creative real world projects applying ebXML with other technologies such as Web Services, XML as a whole, as well as legacy EDI. Major vendors have developed ebXML support into their flagship products and new ebXML vendors are emerging. Key industry sectors and government entities are deploying new eBusiness applications that are serving as benchmarks in the adoption of ebXML globally. Industry groups and standards bodies are working to bring their vocabularies into alignment around ebXML, promising a new level of interoperability that industry has been seeking for more than a decade.

From: the OASIS ebXML Awareness Team: [http://www.ebxml.org/ebxml\\_jmt](http://www.ebxml.org/ebxml_jmt)

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<sup>1</sup> See last page of this document for legal copyright statement and terms of use and restrictions.

## In the News

This section of the document is updated quarterly and contains highlighter items that have happened within the last three months.

*Interchange of Data Between Administrations (IDA) recommends ebXML.*

Completed in June 2003, the study showed that “ebXML is the only framework that is at the same time generic and flexible, and can be used for inter-administrations relations. Moreover, ebXML is clearly the only trend for organised business communities. The general recommendation is to follow ebXML standards as much as possible. This is coherent with the fact that many exchanges between European administrations reflect the interactions between those administrations and the national business world.”

For complete details see: <http://europa.eu.int/ISPO/ida/jsps/doc.jsp?1564>

*London, England, May 2003: The annual ebXML user conference*

In May, the ebXML user conference was held in London, England. Projects worldwide from Europe to Asia were highlighted – customs in India, business process efforts and interoperability demonstrations in Europe, and the growth of ebXML test centers worldwide.

For more information see:

<http://www.idealliance.org/papers/xml03/ebxmlslides/>

The 10th ebXML Asia Committee Asia meeting was held at Okinawa in Japan from 4-6 December 2003.

OASIS announces their Standards Registry 15 January 2004 to the public.

### *Specifications News*

The core components specification 2.0 was approved in September 2003. The latest copy is available from: [http://www.untmq.org/doc\\_tmq.html](http://www.untmq.org/doc_tmq.html) (as of October 2003)

The latest ebXML Registry specifications, V3.0 are also in final public review within the OASIS Technical Committee process.

The ebXML Business Process TC opened within OASIS 20 October 2003.

Continually enhancing the base capabilities of ebXML is an ongoing commitment from OASIS. For further information and participation details on ebXML standards see:

Latest News items online can be found at:

[www.ebxml.org/](http://www.ebxml.org/). Also visit [www.ebxmlforum.org](http://www.ebxmlforum.org) for more details.

## The ebXML global landscape

ebXML is enabler for global eBusiness. As we look at these trends, we see steady growth of ebXML as business balances their functional and technology needs.

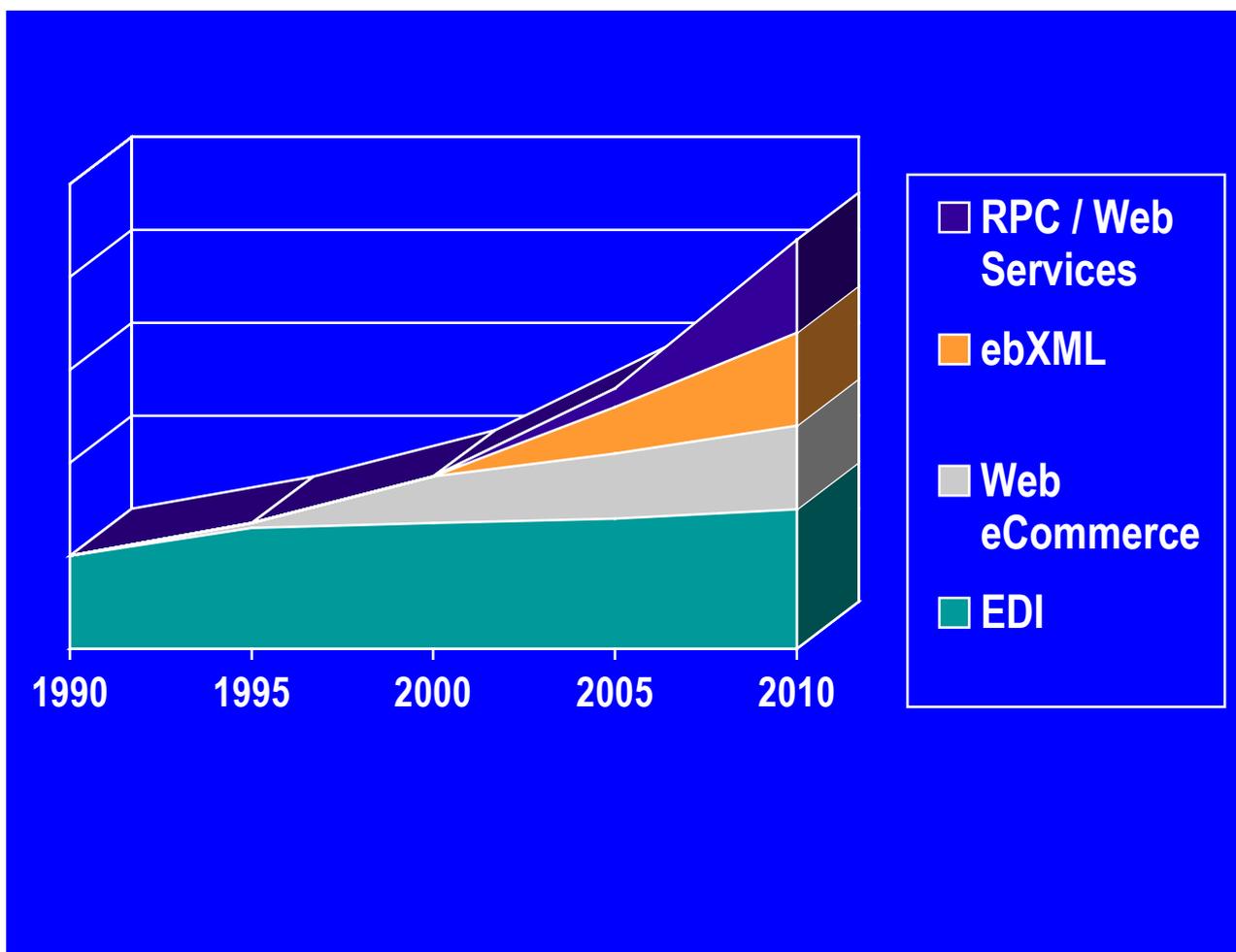
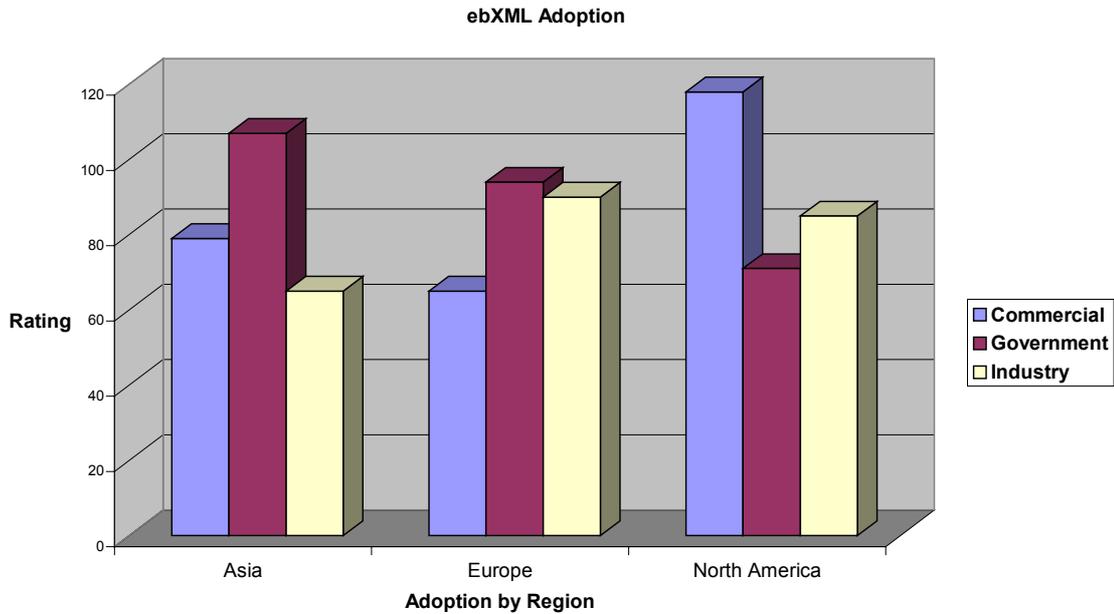


Figure 1 – eBusiness Technology Growth Through 2010<sup>2</sup>

<sup>2</sup> Source: OASIS

## ebXML Adoption

To help see the complete picture we have organized the work on ebXML into three sections, North America, Europe and Asia-Pacific, and two categories arranged by Commercial and Government work. We have also tallied the industry groups who have endorsed ebXML as their approach, and then we have tabulated available vendor products from almost thirty companies worldwide, from the worlds' largest software companies through to small industry solution providers.



**Figure 1 Comparison of ebXML adoption by region, number / size / scope of projects (as of 22 December 2003)**

Note the substantial growth, particularly in Government in Asia and Europe, with steady climbs overall since the last report in the spring 2003.

Note: The graph X-axis is a composite scale based on assigning a factor out of 10 to each ebXML project; each industry adopting ebXML is assigned a score of 5. The totals then reflect the relative activity by region and category. The Rating reflects the composite scale or cumulative rating by region and functional area.

The information is compiled through February 2003. We plan to update this document on quarterly basis. This chart is intended for illustrative purposes only, as a way to show graphically the relative amount of activity.



## **North America**

North America was primarily responsible for bringing EDI into fruition and its use of that technology still exceeds that of any other region. Though the amount of interest in ebXML outside North America is substantial, key industry sectors in which the US is dominant worldwide are once again leading with ebXML (as they did with EDI). This can be expected to influence those sectors particularly.

In addition much collaborative work is developing in North America where the web service aspects of ebXML are being purposed alongside the traditional deployment models. These new patterns of use where ebXML is extending those older systems and creating solutions that had previously proved intractable with EDI is a trend expected to accelerate through 2003 as the underlying ebXML based technologies continue to mature.

## Commercial

Key North American industry groups that have committed to utilizing ebXML with their existing vocabularies and standards include: OAG, AIAG, UCC/RosettaNet, GCI, DISA/X12, OTA, AIAG, Covisint, UIG, SWIFT, PIDX, and papi-Net.

With the maturing of the specifications within the ebXML framework, more interoperability events are being held worldwide in Asia, Europe and in the United States. Comprehensive interoperability demonstrations continue to expand such as with Auto-Tech for automotive in August 2003 and an upcoming collaborative effort for XML 2003 in Philadelphia this December.

The projects listed here<sup>3</sup> are presented in order of those with most anticipated business scope and impact first, followed by those that are more technology development orientated second.

Projects:

Title / Sponsor	ebXML use <sup>4</sup>	Summary	Technical	Schedule	Contact(s)	Link(s)
General Motors, AIAG	ebMS, CPPA, BPSS, Registry	New business system for Used Vehicles Purchasing. This effort is progressing into other supply chain processes within GM and with their suppliers. In collaboration with the OAG-NIST Test Bed, a large-scale demonstration of ebXML and web services was successfully executed at Auto-Tech in August 2003 (see ebMS Updated later in this document).	details	Pilot done; additional efforts planned.	Sally Fuger, AIAG.	<a href="http://www.aiag.org">http://www.aiag.org</a>
Electric Reliability Council of Texas, Inc.(ERCOT)	ebMS	ERCOT replaced File Transfer Protocol (FTP) solution with ebMS. The software passed ERCOT certification testing and is in production (more).	details	Full production end of 2002.	Dick Brooks, Systrends Inc.	<a href="http://www.ercot.com/Participants/FTPReplacement/index.htm">http://www.ercot.com/Participants/FTPReplacement/index.htm</a>



<sup>3</sup> The list is representative, and is not intended to be exhaustive. New initiatives are added as the marketing team is updated on the specific details. To date over 50 projects have been identified.

<sup>4</sup> For acronym descriptions see the Acronym section at the end of document

Title / Sponsor	ebXML use <sup>4</sup>	Summary	Technical	Schedule	Contact(s)	Link(s)
UCC / ebXML Messaging Certification	ebMS	Sponsored by the UCC, this interoperability test uses the Drummond Group interoperability test and trademarked processes. The test will use ebMS v 2.0. (more)	details 	About 11 entities (14 products) successfully completed tests and eBusiness Ready launched in February 2003.  The next test is currently underway until November 2003.	Beth Morrow or Rik Drummond, DGI.	<a href="http://www.ebusinessready.org/">http://www.ebusinessready.org/</a>
Standards for Technology and Automotive Retail (STAR)	ebMS, BPSS, CPPA	Involves an implementation using ebMS 2.0 and is ongoing through efforts of OAGI, National Automobile Dealers Association (NADA) and many other automotive industry leaders. STAR is developing a comprehensive set of messaging profiles for their membership.	details 	Pilot completed; production readiness ongoing. Implementation guidelines will be under development in early 2004.	Tony Blazej, Open Applications Group., Dick Malaise, NADA	<a href="http://www.starstandards.org/">http://www.starstandards.org/</a> and <a href="http://openapplications.org">http://openapplications.org</a>
TransCanada Pipelines	ebMS	In a partnership between Sun, their customer TransCanada Pipelines, and an integrator, the team for the Cortex Project is using a JAXM, the Sun ONE Message Queue to integrate ebXML and Web Services. (more)	details 		Peter Kacandes, Sun Microsystems, Inc.	<a href="http://www.sun.com/software/sunone/wp-cortex.pdf">http://www.sun.com/software/sunone/wp-cortex.pdf</a>
Open Applications Group	Core Components	Identifying and defining CC as it relates to the OAG Business Object Documents (BODs).	details 	First quarter 2003 deliverables mapped with inputs to next release of OAGIS 8.x.	Team lead: Garret Minakawa, Oracle	<a href="http://groups.yahoo.com/group/oag-general/">http://groups.yahoo.com/group/oag-general/</a> <sup>5</sup>
Boeing projects	ebMS - CPPA - BPSS - Registry planning	Broad scoped phased effort that concentrates on the complexity of Boeing (and AIA) processes. This effort is investigative around standards such as OAG, ebXML, UBL, AIA, ATA, etc.	details 		Sally Chan, The Boeing Company	

<sup>5</sup> Requires login to the group.

Title / Sponsor	ebXML use <sup>4</sup>	Summary	Technical	Schedule	Contact(s)	Link(s)
DISA Registry/Repository (DISA DRIVE)	Registry - CPPA	ebXML Registry demonstration project for XML standards developed by DISA partners.	details	Site is live, with testing / updates ongoing. Further effort is pending, given resource and organizational constraints.	Tim Cochran, DISA.org	<a href="http://www.disa.org/DRIVE">http://www.disa.org/DRIVE</a>
WEDI/SNIP	CPPA - ebMS	Work Group for Electronic Data Interchange (WEDI) <sup>TM</sup> /Strategic National Implementation Process (SNIP) is working to support the automated discovery of health care partners for compliance with the Health Insurance Portability and Accountability Act (HIPAA).	Engaged in the development of an Electronic Trading Partner Agreement (eTPA) based on CPPA.		William Kammerer	<a href="http://www.wedi.org/">http://www.wedi.org/</a>
papi-Net Consortium	Registry - ebMS	The papiNet Consortium, the organization developing business data exchange specifications for the paper industry, to the industry groups announced support for ebXML. Its enveloping specifications explicitly endorse use of version 2.0c of the ebXML Message Service specifications.	papiNet payload in an ebXML message envelope using SOAP.	papi-Net plans to participate in interoperability tests before the end of 2003 with the assistance of Ponton Consulting.	Arthur Colman, Technical Lead <sup>6</sup>	<a href="http://www.papinet.org/Guide_V1.0/toc.asp">http://www.papinet.org/Guide_V1.0/toc.asp</a>
European and US paper industry	ebMS	The ebXML reliable and secure messaging service is used in a joint project of the European and North America paper industry. Strong management commitment was gained through a trans-Atlantic steering committee.	Maps to work ongoing in papiNet, with the assistance of Ponton Consulting.	Ponton Consulting participates in a comprehensive ebXML and web services demonstration at XML 2003 in December 2003.	Michael Merz, Ponton Consulting	

<sup>6</sup> [colman@drybridge.com](mailto:colman@drybridge.com)

Title / Sponsor	ebXML use <sup>4</sup>	Summary	Technical	Schedule	Contact(s)	Link(s)
Open Source ebXML Registry RI	Registry	This open source project is developing a reference implementation. The project at Source Forge is developing a client user interface. The client software, currently in alpha release, provides a user interface (UI) for graphically visualizing registry content.	Java based implementation libraries		Farrukh Najmi, Project Manager, Sun Microsystems, Inc.	<a href="http://ebxmlrr.sourceforge.net/">http://ebxmlrr.sourceforge.net/</a>
Covisint	ebMS	The automotive exchange has committed to implement the ebMS using the OAG BODs for business content in lieu of development of automotive industry XML standards.	details	Profiles are under development or being considered to meet user needs.	Ron White, Covisint	Covisint.org
SABRE	ebMS - CPPA – BPSS – Registry	In a proof of concept, built a reusable infrastructure using open standards, including ebXML and SAML. Provides a complete itinerary service for travelers.	details 		Dan Malks, Sun Microsystems	
Auto-Tech Demonstration <sup>7</sup>	ebMS - CPPA - Registry - BPSS	At Autotech, the annual trade for the Auto Industry Action Group (AIAG) in late August, several vendors are demonstrating ebMS, web services, and other ebXML interoperability in a real-world business scenario.	details 	Demonstration set for 25 August 2003 at AutoTech in Detroit.	Tony Blazej, OAG	Contact Open Applications Group.
OpenGIS	Registry	The OpenGIS catalogue group is in the midst of revising their v1.1 spec. For v2.0, a proposal has been made to include an application profile based on ebRIM 2.5.	The profile would be augmented with spatial data (e.g. the geographic extent of a dataset description expressed using the Geography Markup Language).	Evaluation in process	OpenGIS	

<sup>7</sup> See also OAG-NIST Test Bed under US government projects.

## Government



Governments in North America have been in the vanguard of developing the systems to support eGov and government for the citizen. This is reflected in activities supporting and adopting ebXML.

The projects listed here are presented in order of those with most anticipated business scope and impact within the government sector first, followed by those that are more technology development orientated second

### Projects:

Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
Public Health Information Network Messaging System (PHINMS) US Center for Disease Control (CDC)	EbMS CPPA	Using ebXML Messaging for transporting public health surveillance data. CDC is integrating and testing the messaging layer across various public health partners and the CDC.  PHINMS is a generic, standards-based, interoperable and extensible message transport system. It is platform-independent and loosely coupled with systems that produce outgoing messages or consume incoming messages.	Custom version of ebMS developed for project use.  The system spans government – federal, state and local agencies, including emergency responders, hospitals, etc.	Developed ebMS software, initial production in 2003. Currently functions with 30 locations across the country but will be significantly expanding in the near future.  Phase 3 is under planning.	Dr. Barry Rhodes	<a href="http://www.cdc.gov/cic/functions-specs/function_1.htm">www.cdc.gov/cic/functions-specs/function_1.htm</a>
OAG /NIST- ebXML Test Bed	ebMS, BPSS, CPPA, IIC	Conducting collaborative interoperability, limited scope demonstrations relevant to OAG membership such as automotive, aerospace and supply chain related efforts, with tool and engineering assistance from NIST.	details	Initial test-bed is deployed and work is ongoing on extending content and functionality	Nenad Ivezic, NIST.gov	<a href="http://www.oagi.net/QuickPlace/b2btestbed/">http://www.oagi.net/QuickPlace/b2btestbed/</a> (Login required)  <a href="http://www.mel.nist.gov/msid/oagnisttestbed/">http://www.mel.nist.gov/msid/oagnisttestbed/</a>
OAG / NIST - ebXML Test Bed Registry	Registry	Provide a semantic registry of industry vocabularies, ebXML artefacts and validation of ebXML registry specifications; registry for support of OAG/NIST test-bed work	details		Tom Rhodes, NIST	<a href="http://www.NIST.gov">http://www.NIST.gov</a>



Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
Canadian project using ebMS and BizTalk	Registry, ebMS	Canadian project was built to a smaller subset of the ebXML MHS to specifically make calls to an ebXML v 2.0 registry system.	Using ebXML to provide open bridge between proprietary systems.	Completed, April 2002. Evaluation of future efforts is pending.	Gerrie Abrahamson, PWGSC	<a href="http://www.stock-quotes.com/integrator/newsrelease.asp?news=27187&amp;ticker=XMLG&amp;lang=EN">http://www.stock-quotes.com/integrator/newsrelease.asp?news=27187&amp;ticker=XMLG&amp;lang=EN</a>
Department of Public Works and Government Services Canada (PWGSC), Canada	Registry	Involves EDI transformation using ebXML approach via registry services. Have developed a Government Strategies Reference Model.	Demonstrate ebXML technology able to process high-volume production data. Will develop cluster projects for cross-department and agency collaboration.	Funded, with initial phase of work commencing.	Joseph Potrin, PWGSC	
XML in Ontario	Registry, ebMS; BPSS	During 2001, Corporate Architecture Branch (CAB) researched and investigated XML technology to understand how to position to the benefit of G2G within the Ontario Public Service (OPS). A vision and an architecture framework were developed for future XML OPS applications. Phase I effort resulted in recommendation that ebXML be the e_government framework for OPS.	ebXML was selected as the eGovernment framework for OPS.  New version Reg/Rep 3.0 will be considered for Phase III.	Phase 2 successfully completed in March 2003. Phase III is under consideration and funding being secured.	Zheng (Jane) Liang, OPS, Corporate Architecture Branch	
Health Care Industry and NIST (SAGE)	Registry	Develop a standardized shareable set of clinical guidelines using common vocabularies.	Develop a guideline registry that is web-enabled, to facilitate a SAGE.	Identify metadata for guidelines and how it is mapped to RIM.	Dick Beard, IDX; Tony Weida, Apelon	<a href="http://www.sageproject.net/">http://www.sageproject.net/</a>
Health Care Industry and NIST (HL7)	Registry	Investigate the viability of using the ebXML Registry for HL7 artifacts more broadly. NIST in US government has been operating a public ebXML Registry for the HL7 community.	V3 Templates and V2 Conformance Profiles	Prototype registry online for user registration in January 2003	John Silva, Philips	<a href="http://groups.yahoo.com/group/HL7-Conformance/files/">http://groups.yahoo.com/group/HL7-Conformance/files/</a> <a href="http://lists.hl7.org/read/messages?id=33658">http://lists.hl7.org/read/messages?id=33658</a>
Health Care, Center for Disease Control	Registry	Coordination planned for testing registry capabilities with other federal agencies.				



Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
Dealersphere	ebMS	Enables car dealerships to hook into a central integration engine by way of a small system that plugs into the dealers' Local Area Network (LAN).	details	Deployed in February 2002.		
Project JXTA	ebMS, Universal Business Language (UBL)	The JXTA Protocols are an open network computing platform designed for peer-to-peer (P2P) computing. For ebXML specifically, the goal is to provide a p2p-based ebXML framework based on JXTA.	details 	Project began in July 2003.	Chia Chang, chia@jxta.org/	<a href="http://www.jxta.org/ebxml.jxta.org/">www.jxta.org/ebxml.jxta.org/</a>
RosettaNet	BPSS, ebMS Registry	Two projects or efforts are underway, that signal collaboration between RosettaNet and the ebXML community. RosettaNet has adopted BPSS as they pursue the next evolution of the Partner Interfaces Processes™ (PIP™). Rosettanet is operating a private registry with their technical dictionary content loaded. The registry will be made accessible to the membership in the near future.	details  	Multiple messaging project has begun and ebMS and other technologies are under consideration. A Message Controls and Choreography program is also ready to begin.	Paul Tearnen, RosettaNet	<a href="http://www.rosettanet.org/">www.rosettanet.org/</a>
Web Services Registry	Registry	Registry is used to manage internal and external web services to support employees and partners. Team migrated to Reg/Rep based, web services registry for software components.		Went live in fall 2003.	Farrukh Najmi, Sun Microsystems	<a href="http://www.sun.com">www.sun.com</a> (inquire)

## Europe



The eBusiness landscape in Europe is defined today by the use of the UN/CEFACT EDIFACT messaging and other legacy standards. As such Europe has always considered EDIFACT messaging support as vital to ebXML. Europe has also sponsored a significant amount of the development work of ebXML, and is now the center of the continuing eBusiness technical architecture based work.

The European Union has also recognized the vital role that ebXML can play in standardizing interchanges between member countries and as such is aggressively promoting a number of initiatives. Allied with this has been the early work of the European eBusiness standards bodies themselves in facilitating pilot projects to demonstrate using EDIFACT payloads with ebXML components.

Several commercial initiatives are underway specifically for applications within Europe. There is also significant commercial cooperation and adoption of XML based specifications between North America and Europe, examples include SWIFT intra-banking, OTA travel specifications, and UCC and EAN all of whom are also embracing ebXML technologies.

## Commercial

Significant European electronic business standards groups and associations that have committed to utilizing ebXML with their existing vocabularies and standards include: EAN International, CEN / EBES, The e-Centre and SWIFT.<sup>8</sup>

### Projects

Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
European Steel 24-7 Marketplace	ebMS	Steel 24-7, the European steel marketplace owned by three of the world's largest steel companies, Arcelor, Corus and Thyssen-Krupp, is using ebMS as the preferred transport protocol to communicate with Steel buyers and sellers for the exchange of EUROFER EDIFACT and ESIDEL XML messages.	details 	Upgraded to ebMS V2.0. Successfully demonstrated at XML 2003 in London and continues under the BES interoperability pilot.	Anders Tholén, Ferrologic.com	<a href="http://www.steel24-7.com">http://www.steel24-7.com</a>
EAN International	ebMS, BPSS, CCSD.	Is actively assisting in the development of a deployment guide for the use of ebXML Messaging Service within the framework of the EAN.UCC XML System including BPSS, CPPA, Core Components, and CCSD. Conducting an example on development of CC and BIE within CCSD (aggregates). EAN International developed a process suite called 'Simpl-eb', in July 2001.	details 	Development in progress	Frederico Franciosi, EAN International.	<a href="http://lists.oasis-open.org/archives/announce/200009/msg00009.html">lists.oasis-open.org/archives/announce/200009/msg00009.html</a>

<sup>8</sup> EAN International is based in Europe, and is now present in 97 countries worldwide, encompassing Europe, Latin America, Africa, Asia and Australia. This reference is categorized for ease of understanding, yet the breadth of EAN International spans across several continents.

Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
European Transmission System Operators (ETSO)	CCSD TBD- ebXML Stack	As a European organization of electric power transmission operators, the ETSO is building a data dictionary that supports ebXML Core Components, the feature that provides semantic interoperability.	details  	The ebXML framework has been submitted by ETSO as the proposed standard for Electric Industry B2B communications in the EU. It is expected to pass unanimously very soon (Updated as of 1 December 2003).  The proposal is also aligned with Ireland's Wholesale Electric Market B2B infrastructure.	Erik Hartwell, Convenor of ETSO Task Force 14, erik.hartwell@eltra.dk	<a href="http://www.edi.etso-net.org/role-model-cc-eic/core-components.pdf">http://www.edi.etso-net.org/role-model-cc-eic/core-components.pdf</a>
European ebXML Interoperability Pilot	ebMS - simple CPPA - simple IIC - some BPSS	This group of 10 or more participants defined interoperability tests in mid-2003 and demonstrated ebMS interoperability from core to extended or advanced functions at XML Europe 2003. They have also developed an initial test plan for a test for a real-world business scenario in conjunction with a business subteam.	Sponsored by OASIS and CEN-ISSS (eBES)  	Tailored ebMS testing continues.	Pim Van der Ejik from OASIS (their European Consultant)	<a href="http://www.cenorm.be/iss/Workshop/eBES/WorkingArea/Vendors%20Forum/Pilot_Project/default.htm">http://www.cenorm.be/iss/Workshop/eBES/WorkingArea/Vendors%20Forum/Pilot_Project/default.htm</a>  <a href="http://www.cenorm.be/sh/ebes">http://www.cenorm.be/sh/ebes</a>
ANZA Electronic Exchange, Iceland	ebMS with EDIFACT transactions soon-Registry, CPPA, UBL	Iceland secretary of Industry and Trade, Valgerdur Sverrisdottir, opened the SARIS conference on e-Business on April 17, 2002. One of the main focus areas at this conference is the rapid emergence of business messaging using the UN specified ebXML framework. Efforts have continued to progress to date.	details  	In production	Rúnar Júlíusson	<a href="http://www.dimonsoftware.com">http://www.dimonsoftware.com</a>  <a href="http://www.seis.se/pdfer/sem7nov/ebXML%20projects%20in%20Iceland.pdf">http://www.seis.se/pdfer/sem7nov/ebXML%20projects%20in%20Iceland.pdf</a>

Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
Bayerische Landesbank	ebMS	This large German bank has implemented ebMS to comply with German and Euro banking regulations. Their goals were to enable a virtual, real-time automated calculation of market and borrower default risk.				
Statistical Data and Metadata Exchange (SDMX)	Registry	Conducted a case study using ebXML Reg/Rep as a content management system to manage debt statistics from third world countries.	details	Case study projects continue through 2003.	Stuart Feder, BIS	<a href="http://www.registryolutions.co.uk/sdmxDemo/notes/SDMXSiteRegistryImplementation.htm">http://www.registryolutions.co.uk/sdmxDemo/notes/SDMXSiteRegistryImplementation.htm</a>  <a href="http://www.registryolutions.co.uk/sdmxDemo/notes/index.htm">http://www.registryolutions.co.uk/sdmxDemo/notes/index.htm</a>  <a href="http://www.registryolutions.co.uk/sdmxDemo/notes/SDMXSiteGESMESTS.htm">http://www.registryolutions.co.uk/sdmxDemo/notes/SDMXSiteGESMESTS.htm</a>
COSMOS (Cluster Of Systems of Metadata for Official Statistics) Project, Luxembourg	Registry	An open-source ebXML registry was used to find the "COSMOS objects", instances of parts of the COSMOS common model such as data set, nomenclature, questionnaire, and survey.	details 	The final COSMOS programme was held in June 2003.	Chris Nelson, Dimension-EDI	<a href="http://www.epros.ed.ac.uk/cosmos/index.html">http://www.epros.ed.ac.uk/cosmos/index.html</a>
Individual, Laurent Chau Shiu-Liet	ebMS CPPA Registry	Is building an offers the services for daily international commerce and payment, including legal and signatory requirements in a J2EE environment.	Using the J2EE framework to support ebXML 	Project began in spring 2003.	Laurent Chau Shiu-Liet <a href="mailto:Chau.laurent@wanadoo.fr">Chau.laurent@wanadoo.fr</a>	

## Government / EU

Governments in Europe and the European Union (EU) itself have been tracking and supporting the ebXML development. Now significant programs are being funded and the following table shows the scope of these efforts today.

The projects listed here are presented in order of those with most anticipated business scope and impact within the government sector first, followed by those that are more technology development orientated second.

### Projects

Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
Single European Electronic Market (SEEM) <sup>9</sup> , IST: ADAPT	All aspects	Using ebXML as a baseline focused on SME using XML representations.	Study			
OpenXchange: Integrated Business Processes and Methods for Electronic Procurement and Marketplaces: Single European Electronic Market (SEEM)	ebMS - CPPA - BPSS	OpenXchange's objective is to build up a business process framework for the exchange of business information to enable complete business process integration.  This is practiced exchange of information/catalogue buying within in different business domains: a. Temporary staffing b. Building and construction  The team is using UML and UMM to model its business processes for temporary staffing, building and construction, and catalogue buying. In addition to ebXML, the team is using UBL implementation for CC and BIE, for a temporary staffing timecard effort.	The full OpenXchange runtime engine and associated components automatically use the CPPA and include a transaction manager for BPSS.	Full project Results expected June 2004	Fred van Blommestein, Berenschot	www.openxchange.org



<sup>9</sup> Short update brief related to SEEM was given in Brussels in December 2002: <http://isg.uninova.pt/pub.ideas/bscw.cgi/d31920/02%20Laso%20SEEM.ppt>.

Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
SEEM: eBip	BPSS, and ebMS	Tile marketplace is part of Cluster for Electronic Commerce in Europe C-ECOM.	Start ebXML-conform marketplace interface and BPSS for the tile industry.			
SEEM: OPUS	Registry	Provide capability to maintain a unified Pan-European registry of healthcare related products using ebXML. <sup>10</sup>	Joint effort between Greece, Italy and Belgium		Geert Thienpon <sup>11</sup>	<a href="http://opus.pouliadis.gr">http://opus.pouliadis.gr</a>
SEEM: REGNET	Study	REGNET aims to set up a Network of Cultural Service Centres through Europe that will provide IT-services dedicated to cultural heritage organisations (e.g. Museums, Library, art galleries, etc.).	Includes 10 countries and 25 partners.		Jean-Pierre Lorre, Valtech Toulouse	
SEEM: SCOOP	Planning	A system that supports cooperative planning in worldwide manufacturing and service networks, implemented for textile/garment and printing industries.				

<sup>10</sup> OPUS is doing a study (Research and Development Project) for e-Procurement in the Healthcare sector, called OPUS or Optimal Public Procurement in the Healthcare Marketplace. Their goals include:

- Create an efficient e-procurement mechanism that enables hospitals and pharmaceutical suppliers to electronically exchange contractual information, aided by the technologies of optimisation and business rules.
- Provide a mediation service provider who will grasp the market opportunity, as this is triggered by the consumer's request, offer the participants the ability to dynamically constellate with other medical suppliers, and promote collective competition among the constellations. Appropriate settlement modules will address the necessary contractual and/or value sharing arrangements spontaneously or dynamically.
- Develop modules, entailing the various business perspectives, policies and market rules that will resolve any apparent conflict. The dynamic pricing module will dismantle the generated product and disseminate the value among the implicated partners.

<sup>11</sup> [geert.thienpont@ramit.be](mailto:geert.thienpont@ramit.be)

Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
SEEM: Laura Project	ebMS Registry	The LAURA project is an international, multi-sectorial attempt to design and develop electronic commerce zones (EC zones) in the less developed regions of Europe. These commerce zones will introduce the latest electronic commerce business practices to the participants of the LAURA project (local small - medium enterprises and local business organisations) improving companies' competitiveness, business efficiency and expanding their market in European countries.	Based on ebXML framework and gradual adoption of Messaging, Registry and other ebXML specifications	Initial project began in August 2002 and scheduled to continue through mid-2004.	Information supplied by Petropoulos Kostas.	<a href="http://www.lauraproject.org/">www.lauraproject.org/</a> <a href="http://www.lauraproject.org/project's%20description.html">http://www.lauraproject.org/project's%20description.html</a>
Tambag's METU-CENG ebXML Registry/Repository	Registry ebMS BPSS CPPA	A student implementation based on the RS and RIM that expanded to include several ebXML components. The effort called ebIOP runs on Linux.	Download is available on the site.	In 2002, released update	Yusuf Tambag, ceng.metu.edu.tr <sup>12</sup>	<a href="http://www.ceng.metu.edu.tr/~e102830/ebXML">www.ceng.metu.edu.tr/~e102830/ebXML</a>
Software Research and Development Center (SRDC) - Middle East Technical University (METU), Ankara, Turkey	ebMS	METU-SRDC is currently working on an automated generation of a CPA from two CPPs; as well as using RosettaNet PIPs as ebXML BPSS. They have expanded their efforts to include storing DAM-S service ontologies into an ebXML classification hierarchy.	details		Asuman Dogac <sup>13</sup>	<a href="http://www.srdc.metu.edu.tr/ebXMLProject/">http://www.srdc.metu.edu.tr/ebXMLProject/</a>
Speech Act Theory	BPSS UMM	Uses the constructs from business collaborations defined in the UMM and expresses them in Speech Act Theory.	Technical efforts continue by extending the theories that were identified and are currently being expanded.	Presented at the end of 2002.	Anders Tell, Toolsmiths.se	<a href="http://www.openebxml.org/methodology/SAT/sat.html">http://www.openebxml.org/methodology/SAT/sat.html</a>

<sup>12</sup> [e102830@ceng.metu.edu.tr](mailto:e102830@ceng.metu.edu.tr)

<sup>13</sup> [asuman@srdc.metu.edu.tr](mailto:asuman@srdc.metu.edu.tr)

Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
Open ebXML Laboratory	Registry, ebMS and CPPA at a minimum	This open source implementation supports the primary architectural components and an ebXML GUI workbench.	details		Anders Tell, Toolsmiths.se	<a href="http://www.openebxmlab.org">www.openebxmlab.org</a>
Ministry of Finance, Finland, The Association of Finnish Local and Regional Authorities Finnish Tax Administration, and the Government of Finland	CC, Registry	They are working with a project which aims to bring 700 government forms into a public ebXML registry. A public term directory in the registry was created. Tools were also developed for assembling the documents from the registry information entities and automated form and XML schema production.	details The API developed by Republic of Finland to publish the API as open source when complete.	About 65 forms have been completed due to customer resource limitations.	Jouko Salonen, jouko.salonen@republika.fi	A case study can be found at <a href="http://www.ebxml.org/">www.ebxml.org/</a> .
European Interchange of Data between Administrators (IDA)	Registry	Metadata Management System Project is implementing a system for managing metadata about information resources, documents and services.	details Analytical report and summaries available for review. Next steps are to review user needs and current environment.	Have completed the first phase of the study of B2B frameworks.  Begin Phase 2.	Peter Burgess  Emilio Castrillejo	<a href="http://europa.eu.int/ISPO/ida">http://europa.eu.int/ISPO/ida</a>
eCentre United Kingdom CC Implementation	CC	Working on a CC implementation, where business trials are set to start this month (February 2003).	Compliant with v.1.8 specification working toward current release	In February 2003 business trials set to begin.	James Whittle, eCentre	
Finnish Banks, Ministry of Finance, Finland	ebMS	Using ebXML as much as possible with their solution for electronic invoicing (EBPP). Some maintenance of their existing implementation guideline is underway, e.g. ePI-content (electronic payment initiator). These changes will be done in accordance to the changes made by ECBS (TC2/WG1 ePI-group).	Two banks are engaged in the pilot, Nordea and OKOBank.	Pilot completed in first portion of 2003. Other banks continue to join.	Voukko Pitkanen, Suomen Pfankkiyhdistys	<a href="http://www.fba.fi/finvoice/">http://www.fba.fi/finvoice/</a>

Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
Indian Institute of Science, Bangalore, India	ebMS Registry Others to follow	New project will deal with some paper intensive law enforcement processes in India, using ebXML. The initiative was created at the e-enterprise laboratory at the Indian Institute of Science, Bangalore.		Project just began in 2003.	Visva Visvanathan	<a href="http://lcm.csa.iisc.edu.in">http://lcm.csa.iisc.edu.in</a> <a href="http://www.ebxmliindia.org">http://www.ebxmliindia.org</a>
Indian Institute of Science, Bangalore, India	ebMS Registry Others to follow	ebXML will used to introduce the benefits of e-business in the intermodal shipping industry in the southern part of India. Through ebXMLIndia.org, the team has gained corporate support to take the initiative to more government departments in the near future.	Enable automation of customs documents.	Project just began in 2003 and a prototype has been developed.	Visva Visvanathan	<a href="http://lcm.csa.iisc.edu.in">http://lcm.csa.iisc.edu.in</a> <a href="http://www.ebxmliindia.org/">http://www.ebxmliindia.org/</a>
TeliSonera Networks, Norway	ebMS BPSS CPPA	Have moved a production level B2B ebXML implementation into the European telecommunications marketplace. The team's desire is establish a standard using ebXML and their Neutral eBusiness Interface (NeBI) as the eBusiness standards for telecommunications companies in Norway.		Moved into production in May 2003	Lars Abell, TeliSonera	<a href="http://www.nebi.biz">www.nebi.biz</a>
Government of Portugal	Analysis Study	Investigating the use of ebXML and UBL. A team of government procurement experts from the UK, Denmark, Finland, Germany, and the U.S. appointed by members of the OASIS eGov TC will be reviewing UBL for use as a government procurement standard. Denmark is moving to select UBL as a national standard (November meeting).	details 			

Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
OpenXchange: ECP-NL, The Netherlands	ebMS at a minimum	An European openXchange pilot project for "Electronic hiring of temporary staff" has used the ebXML specifications (ebMS) using HR-XML messages. Based on this pilot, partners have already given input to both HR-XML and ebXML development.	Using ebXML to transport HR-XML business documents.	Conducted a demonstration in the Netherlands in October 2003	Frank van-den Eijnden	

## Asia-Pacific



This region has always had special needs that traditional ASCII based EDI transactions struggled to fulfill. Therefore Asia has been one of the early adopters of XML based technologies to solve the challenges of their business needs and, particularly in the last year, has been the hotbed of growth and deployment of ebXML.

This has been particularly true of government-sponsored research through the NTT in Japan, and this has led to adoption projects in Korea, China, Taiwan and Australia with XML as the region works to develop coherent commerce components.

## Commercial

Traditionally the region has followed key North American industry groups who are major customers of products from the region, and particularly the automotive and electronics industries.

The RosettaNet initiative within the electronics industry has been a focus for the region, and that standard work is now being continued under UCC. Therefore the UCC is taking prior RosettaNet work and may in the future migrate to the equivalent ebXML technologies. Thus ebXML requirements are coming to the fore across Asia as the following commercial project details show.

Characteristically government work is matching commercial work within Asia as local governments look to assist their own industries gain advantage with ebXML technologies. Australia has a long history of promoting EDI and specifically UN/EDIFACT based systems for their export markets and this is being reflected in Australian initiatives around ebXML.

## Projects

Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
VENCorp - Victorian Energy Networks Corporation	ebMS	VENCorp have just gone live with an industry wide B2B implementation using the ebXML messaging infrastructure, carrying an aseXML document as the payload. The aseXML is the Australian energy industries data description language.	details	In production handling up to 100,000 transactions daily.	Neil Belford Architect, FRC B2B System VENCorp	<a href="http://www.vencorp.com.au">http://www.vencorp.com.au</a>
Australian Distributed ebXML Grid	References: ebMS, Registry, BPSS, CCSD, and peer architecture .	Through Tradegate ECA and GTD Technologies Pty Limited, this project is loosely based on existing ebXML work such as BPSS, UDDI, Core Components, Message Handling services and also a significant influence from X.500/LDAP. The project uses a distributed computer grid for dialup, broadband and wireless connections.	Combining ebXML with a peer-to-peer environment	A first demonstration was made on 20 August 2002.	David Lyon, Australia.	
Korea Trade Network (KTNET)	Registry, ebMS and CPPA	Provides an ebXML Registry service to support eTrade in Korea. The registry will serve the GXMLHub project and in Pan-Asia.	details	First phase online	Ho-beom Jang, Application Team Manager, 82-2-6000-2745	<a href="http://www.GXMLHub.com/english/index.html">www.GXMLHub.com/english/index.html</a>
Japanese Kasumi Project and Electronic Commerce Promotion Council of Japan (ECOM)	ebMS - with optional CPPA – IIC	Using ebMS and the BPSS as a basis to develop a next generation EDI system named JEITA-Collaborative EDI (Japanese Electronics and Information Technology Industries Association).	They are developing a set of test cases, plans and framework for interoperability (and coordinating with IIC).	See Asia Interoperability Task Group (ITG) for more test details.	Yukinori Saito, <a href="http://ECOM.com">ECOM.com</a>	

Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
Kasumi B2B Integration Project (Kasumi Co. Ltd.)	ebMS	Kasumi developed Information share system between Retail and maker.	details	Kasumi did an actual proof experiment test from Nov. 2002 to Mar. 2003.  But the real operation is postponed as of Oct. 2002 (business processes are under re-evaluation).	Yukinori Saito Electronic Commerce Promotion Council of Japan (ECOM)	
JEITA Collaborative EDI (Japan Electronics and Information Technology Industries Association)	ebMS V2.0 CPPA V2.0 BPSS v1.05 Registry	JEITA is developing next generation standard EDI system in Electronics and Information Technology Industry.	 This system covers standardization and processing electronically from Business Process layer to Messaging layer.. The team is now developing the distribution industry's registry system based on ebXML Registry 2.0.	Actual Experiment Test Phase 1: from Nov. 2001 to Jan. 2003 Actual Experiment Test Phase 2: from Dec. 2002 to Feb. 2003. Registry efforts continue through Fiscal 2004 (to March 2004).	Yukinori Saito Electronic Commerce Promotion Council of Japan (ECOM)	
Asia Interoperability Group ebXML Asia Committee	ebMS CPPA	Committee held the 8 <sup>th</sup> annual event in Malaysia.  Notable in the progress being made in the Pacific Rim, technology is being productized and formalized test environments created to support product development, deployment and adoption.	details	Last successful test in July2003.		<a href="http://www.ebxmlasia.org/">www.ebxmlasia.org /</a>
Hong Kong SARG (HKSARG), Digital Trade and Transportation Network (DTTN)	ebMS	HKSARG is working on a huge infrastructure network with a reliable messaging infrastructure. HKSARG has published a detailed report as well.	 One of several key G2B and B2B projects in Hong Kong.			<a href="http://www.logistics.gov.hk/logisticsboard/reports001.html">http://www.logistics.gov.hk/logisticsboard/reports001.html</a>



Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
ebXML Asia Committee	ebMS CC TBD	According to KIEC on August 17, the ebXML Asia Committee decided at the 9th eAC meeting recently held in Bangkok, Thailand to link e-document guidelines proposed by Korea with Hong Kong's e-government project to set up ebXML Asia guidelines and a library before the end of this year. eAC launched a taskforce called the Core Component Task Group, or CCTG, to push craft guidelines, and named Korea and Taiwan to co-char the organization.		EAC has also decided to expand adoption of ebXML standards, which are presently used for the Pan Asia e-Trade Alliance (PAA) comprising 7 member countries, the Malaysian tax system, Thai e-trade and Hong Kong's e-government, into a full range of e-trade transactions across Asia.	EAC AITG	<a href="http://www.ebxmlasia.org">www.ebxmlasia.org</a>
Distributed Systems Research Institute, Japan (DCC-Japan)	CPPA ebMS CC	The Distribution Systems Research Institute has developed JEDICOS-XML based on ebXML CC specification in fiscal 2002. This industry will adopt ebMS and CPPA. It developed CPA templates based on ebXML CPPA V2.0 in fiscal 2002 (April 2002 to March 2003).	Work continues on ebMS and CPP/A adoption.	The industry will continue to promote the Standard Message Exchange Guideline, Standard CPA template and the JEDICOS-XML.	Yukinori Saito, ECOM	<a href="http://www.dsri-dcc.jp/english/index.htm">http://www.dsri-dcc.jp/english/index.htm</a>

Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
Pan-Asia Alliance (PAA)	CPPA ebMS Registry	The Pan Asia E-Commerce Alliance (PAA) was establishing July 2000 for trading in the Asian region. Now, 8 major service providers (Taiwan, Hong Kong, Singapore, Korea, China, Malaysia, Japan, Macao) join this alliance. This project is fully based on ebXML technologies. Trade-Van of Taiwan and Tradelink of Hong Kong has started commercial business operation based on new PAA system since July 2002. Now, PAA is adopting ebMS, R&R, and CPPA. PAA is using full functions of CPPA specification including CPP and CPA.	Trade-Van and Tradelink are placing systems in production using these technologies.	More information pending	Yukinori Saito, ECOM	
TEDI Club, International Trade Industry, PAA	ebMS	In collaboration with PAA, TEDI has carried out actual proof testing of the system based on ebXML MS V2.0 specification with Singapore, Malaysia, and Korea.	POC conducted earlier in 2003.	More information pending	Yukinori Saito, ECOM	<a href="http://www.tedclub.com/english/index.html">http://www.tedclub.com/english/index.html</a>
Fashion Industry SCM Promotion Association (QR XML Promotion Council), Textile Industry, Japan	ebMS	The council developed the new 3 XML/EDI standard messages (called "FISPA-XML"), coordinated with the distribution industry's JEDICOS-XML standard messages.	Working with Japanese distribution industry for ebMS adoption.	The industry is still considering the use of this new technology.	Yukinori Saito, ECOM	<a href="http://www.fispa.or.jp/english/top.html">http://www.fispa.or.jp/english/top.html</a>
Travel Industry, Electronic Commerce Promotion Organization of Japan Travel	ebXML framework	EC Promotion Organization of Japan Travel Industry conducted proof testing of its "International travel e-commerce infrastructure", and now is proposing the development and production into the Japanese travel industry.	Plans under development to adopt ebXML and Web services as frameworks	The industry is still considering the use of this new technology as well as pursuing creation of standard business processes and documents.	Yukinori Saito, ECOM	





## Government

Governments in Asia have traditionally worked closely with their commercial sector. Examples include governments like Singapore and Malaysia who have devoted significant resources to creating digital technology facing economies as their competitive advantage.

### Projects

Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
Australian National Office of the Information Economy (NOIE)	Registry	Committed to ebXML at their Interoperability and eBusiness summit in April 2002. The BizDex project combines use of ebXML and UDDI registries. Also includes a low-cost connector to enable eBusiness (see other project reference).	.	Request for information for registry and registry authority released in July 2002. This project is in its initial stages.	Victor Pawley, NOIE	<a href="http://www.evision.com.au">www.evision.com.au</a> and <a href="http://www.noie.gov.au">www.noie.gov.au</a>
Australian National Office of the Information Economy (NOIE)	SME deployments	Has a committee to define and address capabilities that will support small business use of ebXML, such as integration of ebXML into business applications like Quickbooks. The BizLink connector is a low cost adapter to enable eBusiness.	This first phase is to define the business requirements, and then engage business to work toward solutions. This committee progressing.	Moving forward on project	Victor Pawley, NOIE	<a href="http://www.noie.gov.au">www.noie.gov.au</a>
Curtin University of Technology, School of Computing	ebMS, CPPA	Created an open source, free software ebXML CPA formation process' project. The project is an offspring of an academic project at Curtin University, Perth, Australia. The project is focused on the negotiation of profiles and agreements, and will provide advanced research on negotiation algorithms to be used in the CPA formation process.	 Expresses the effort into three formation levels. details	Level 1 – formation of a CPA using an algorithm applied to two CPP – has been partially implemented.	Sacha Schlegel, School of Computing	<a href="http://www.schlegel.li/ebXML/">http://www.schlegel.li/ebXML/</a>



Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
Project Phoenix/ Center for eCommerce Infrastructure Development (CECID) at the University of Hong Kong	Registry, CCSD	As a main contributor to the ebXML Registry 2.0 implementation, CECID is the worldwide test site for the registry. CECID has also donated the source code and binary of its ebMS, Hermes, as an open-source project hosted <a href="http://www.freebxml.org">www.freebxml.org</a> .	details	First deployment completed online	Thomas Lee, <a href="mailto:ytlee@cecid.hku.hk">ytlee@cecid.hku.hk</a>	<a href="http://www.cecid.hku.hk">http://www.cecid.hku.hk</a>  <a href="http://www.freebxml.org">http://www.freebxml.org</a> <a href="http://ebxmlrr.sourceforge.net">http://ebxmlrr.sourceforge.net</a>
CECID, MTR Corporation and Saggio (Asia Pacific)	ebMS	An office supplies invoice system has been rolled into production using the open-source ebMS implementation Hermes.	The ebXML technology automates business document delivery from Saggio to MTR and captures business data in to the MTR database.	Production began in September 2003 for more than 300 users.	Dorris Tai, <a href="mailto:cwtai@cecid.hku.hk">cwtai@cecid.hku.hk</a>	<a href="http://www.cecid.hku.hk">http://www.cecid.hku.hk</a>
Project Phoenix / CECID at the University of Hong Kong	ebMS	SME deployments Developing countries deployments  Under the auspices of its Project Phoenix, CECID has developed ebMail, a lightweight application with an e-mail interface, for business document exchange.	Detail Pilot project in the Department of Health	Pilot project continues this 2003 quarter. Released ebMail in May 2003.		
CECID, Department of Computer Science and Information Systems (CSIS), and The University of Hong Kong (HKU)	ebMS	The Marine Department of the Hong Kong SAR Government has put Dangerous Goods Manifest Submission system into production using the open-source ebXML Message Service Handler implementation, Hermes. The project is being extended to cover other port formality documents.	details	One shipping company is online while another is anticipated by the end of 2003.	Thomas Lee, CECID	<a href="http://www.logistics.gov.hk/logisticsboard/reports001.html">http://www.logistics.gov.hk/logisticsboard/reports001.html</a> . (Study report)
Distributed Systems Technology Centre (DSTC)	Architecture	The Elemental Project seeks to extend the ebXML meta-model (research of enterprise modeling languages and methodologies).	details		Dr Zoran Milosevic  <a href="http://dstc.edu.au">dstc.edu.au</a>	<a href="http://www.dstc.edu.au/Research/elemental-ov.html">http://www.dstc.edu.au/Research/elemental-ov.html</a>

Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
Korean Institute for Electronic Commerce (KIEC)  KIEC Reg/Rep is now REMKO	Registry CPPA Architecture	Headed by Jasmine Jang, the team has developed a flexible architecture to support a distributed national and other information registries. KIEC has 116 online vendors ( <a href="http://www.ecom.or.jp/ecom_e/latest/ecomjournal_no4/ecomjournal_e04.pdf">http://www.ecom.or.jp/ecom_e/latest/ecomjournal_no4/ecomjournal_e04.pdf</a> ).	details	In early 2003, will add more than 60 XML/EDI messages for cross-industry use in REMKO (components and business process libraries).	Jasmine Jang, REMKO	<a href="http://lists.oasis-open.org/archives/ebxml-cppa/200205/ppt0002.ppt">Lists.oasis-open.org/archives/ebxml-cppa/200205/ppt0002.ppt</a>
Korean Iron and Steel Association (KOSA and Japanese Steel Industry Federation (JSIF), Japan and South Korea	Registry CPPA ebMS	KOSA is working with KIEC. In addition, Japan Steel Federation and KOSA are studying to setup "joint research project" to standardize the steel materials trading business model based on ebXML specifications. Adoption is increasing in the steel industry in using the ebXML system and federated registries.	 arch project is underway.  	Standard business processes and documents were created (effort April-October 2003) and automation processes defined. In 2004, federated registry projects will expand across different parts of the steel industry in Korea.	Yukinori Saito, ECOM and Jasmine Jang, KIEC	<a href="http://www.jsif.or.jp/">http://www.jsif.or.jp/</a>
Taiwan ebXML Registry and Repository (XR2)	Registry	The NII Enterprise Promotion Association's portal supports the Taiwanese XML community. This is an ebXML registry based on RIM 1.0. The Department of Industrial Technology, Ministry of Economic Affairs supports this effort in Taiwan.	This website has now more than 500 members and 100 registry objects, including business documents, business process documents, CPPs, etc.).  oped 2EE, Borland AppServer, and SQL Server.	Online and focusing on promotion in 2003	Carol Tsai and Dennis Chang	<a href="http://www.ebxml.org/tw">www.ebxml.org/tw</a>
Industrial Bank of Korea	ebMS, CPPA	Regulatory changes in Korea have opened up an opportunity for financial institutions to sell insurance. In a new project called Bacassurance, Industrial Bank of Korea is connecting its 10 insurance partners. This will be the first ebXML adoption in the financial industry in South Korea.	details	The interface system went live in September 2003.	Young-Hwan Yang, <a href="mailto:yhyang@inodigital.co.kr">yhyang@inodigital.co.kr</a>	See ebXML case study.

Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
FreebXML	Open-source project	The Steering Committee of freebXML announced the launch of a new initiative that aims to foster the development and adoption of ebXML and related technologies. Pronounced as "Free b X M L" freebXML is an international effort comprising of founding members from technology firms, government organizations, standardization bodies, and academic institutions.	details	Website launched and two source code projects are available (more)	Thomas Lee, <a href="mailto:cecid.hku.hk">cecid.hku.hk</a>	<a href="http://www.freebxml.org/">http://www.freebxml.org/</a>
						
Internet Paperless Trading (IPT) - Thailand private sector and eGovernment (Customs Department, Information and Communications Technology Ministry [ICT])	Planning ebMS	An Internet-based paperless trading pilot project is now being conducted between multiple public and private sector entities. The project aims to analyse the system in terms of traditional EDI and ebXML, to find a suitable way to promote the utilisation of ICT in SMEs and to boost competitiveness through the B2B e-business. It also pushes for the development of data interchange and service interchange standards in order to accommodate APEC's paperless trading project. To put the standards into practical use, ECRC has initiated eight projects with more than 15 government agencies and private organisations.	details	Projects announced in July 2003. To achieve the target of paperless trading in the year 2005, the department and all agencies in the ministry first have to complete integration within the ministry by the end of next year and then extend it to the external partners.	Skol Harnsuthivarin, ICT	<a href="http://www.bangkokpost.com/060803_Database/06Aug2003_data01.html">http://www.bangkokpost.com/060803_Database/06Aug2003_data01.html</a> , <a href="http://203.150.224.53/page.news.php3?clid=20&amp;id=18826&amp;usrsess=1">http://203.150.224.53/page.news.php3?clid=20&amp;id=18826&amp;usrsess=1</a>
Thailand private sector and eGovernment (Customs Department, Information and Communications Technology Ministry [ICT])	Planning - ebMS	Another ebXML pilot project is collaborative e-tourism, conducted by i3t-KU, ECRC, and Datamat. Objectives are to promote SMEs in the tourism industry to use ICT to cut costs, to enhance efficiency and to expand their markets.	details	Projects announced in July 2003.	Skol Harnsuthivarin, ICT	<a href="http://www.bangkokpost.com/060803_Database/06Aug2003_data01.html">http://www.bangkokpost.com/060803_Database/06Aug2003_data01.html</a> , <a href="http://203.150.224.53/page.arcview.php3?clid=20&amp;id=83888&amp;usrsess=1">http://203.150.224.53/page.arcview.php3?clid=20&amp;id=83888&amp;usrsess=1</a>



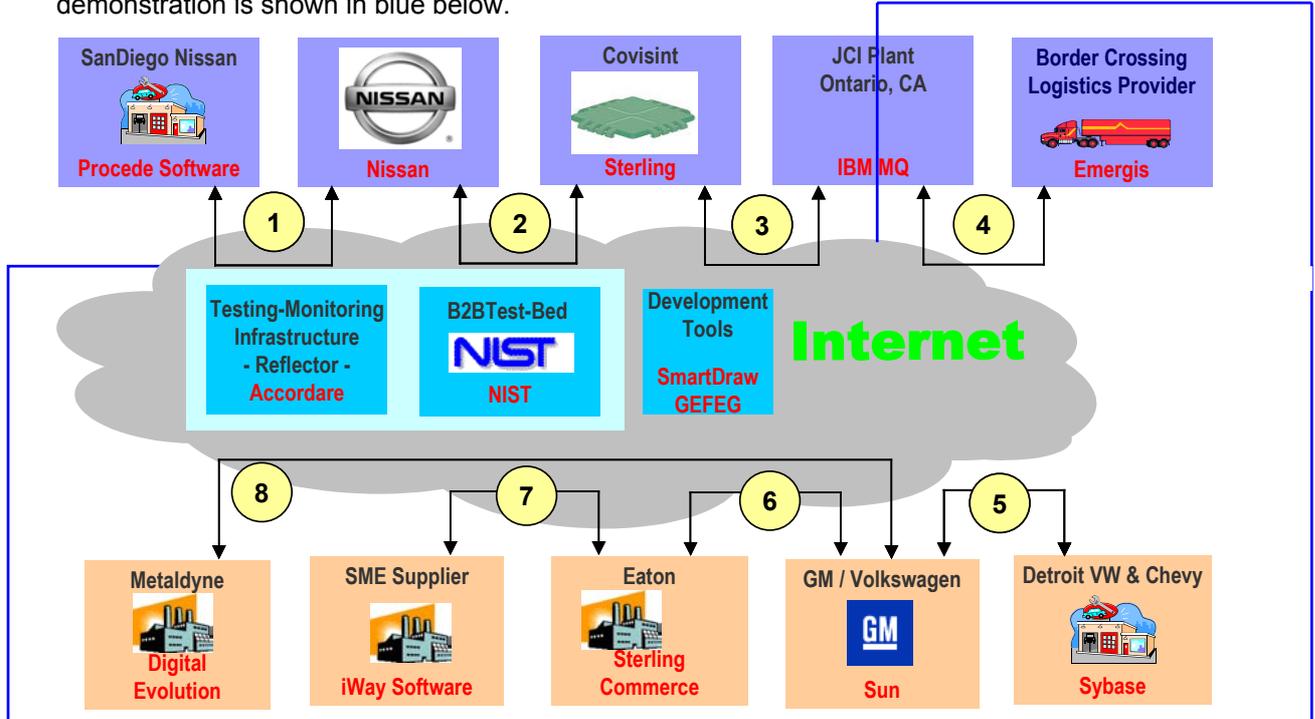
Title / Sponsor	ebXML use	Summary	Technical	Schedule	Contact(s)	Link(s)
Interbank Transaction Management and Exchange (ITMX)	Planning – ebMS	ITMX is a collaboration between the Bank of Thailand and the Thai Bankers' Association to develop a common payment platform based on interoperable standards.	details	Projects announced in July 2003.	Skol Harnsuthivarin , ICT	<a href="http://www.bangkokpost.com/060803_Database/06Aug2003_data01.html">http://www.bangkokpost.com/060803_Database/06Aug2003_data01.html</a> , <a href="http://203.150.224.53/page.arcview.php3?clid=20&amp;id=83888&amp;usrsess=1">http://203.150.224.53/page.arcview.php3?clid=20&amp;id=83888&amp;usrsess=1</a>
ECRC – Other initial pilot projects	Planning – ebMS	Other projects are in the initial phase of development included government procurement, collaborative retailing and citizen cards. The procurement project aims to take the process online. Instead of asking bidding companies to submit information on paper, agencies like the Comptroller-General's Department can request company profiles from the Trade Development Department electronically.		Projects publicized in July 2003.	Skol Harnsuthivarin , ICT	<a href="http://www.bangkokpost.com/060803_Database/06Aug2003_data01.html">http://www.bangkokpost.com/060803_Database/06Aug2003_data01.html</a> , <a href="http://203.150.224.53/page.arcview.php3?clid=20&amp;id=83888&amp;usrsess=1">http://203.150.224.53/page.arcview.php3?clid=20&amp;id=83888&amp;usrsess=1</a>
National Computer Agency (NCA), Knowledge and Information Technology Division, South Korea	ebMS Interop – Conformance – CPP – CPA – Registry (client and server)	The Department of e-Business Research, Knowledge and Information Technology Division has developed a set of test requirements as they progressed their interoperability test bed. They have submitted their requirements inputs to the ebXML IIC TC at OASIS. The next phase is to formally integrate the ebXML Test Framework into test bed operations.	Test Bed is working towards conformance to ebXML Test Framework 1.0.	Team will participate in an ebXML Test Framework demonstration for Registry and ebMS at XML 2003 in December 2003.	Jung-hee, Yun, <a href="mailto:yunjh@nca.or.kr">yunjh@nca.or.kr</a>	
Korean B2B/A2A <sup>14</sup> Interoperability Test Bed (KorBIT), Korean Agency of Technology and Science, Ministry of Commerce, Industry and Energy	ebMS IIC Test Framework	KorBIT is developing testing software based on the IIC Test Framework with NIST. KorBIT is providing a live, automated test bed environment that will support testing and certification, for the eAC in Pacific Asia.	Developing testing tools to support widespread adoption of ebXML in Asia Pacific.	KorBIT and NIST will demonstrate their ebMS solutions hooked together, one from Korea and the other from USA in December 2003.	Dr. Hyunbo Cho, POSTECH	<a href="http://www.korbit.org/">http://www.korbit.org/</a>



<sup>14</sup> Application-to-Application (A2A)

## ebXML Messaging Service Update

In August 2003, a comprehensive, cross-functional demonstration was held at Auto-Tech in Detroit where ebMS, CPP/A, BPSS, OAG BOD, and web services were successfully used. The demonstration showcased the dealer, manufacturer, and large or small suppliers in a supply chain scenario – for product and availability, ordering, and fulfilment. A cross-border shipment process, using ebMS was also shown in the web services demonstration segment. Visual, monitoring and routing tools were also used to check the process and message exchange status and graphically present the processes used. The ebXML portion of the demonstration is shown in blue below.



## Commercial ebXML Products

The table here provides details of commercially available products and services from vendors that support the ebXML specifications<sup>15</sup>. These are categorized under broad groupings that reflect the marketplace the products are targeted at. Links are provided to the individual vendors websites.

**Table 1. Available Commercial ebXML Products and Services**

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<sup>15</sup> *This list is assembled from currently available products that have been commercially announced, from OASIS member companies, and from media sources. It is intended to be illustrative only; companies are listed in alphabetic order by company name. Listing here is not any certification or endorsement of the companies or products themselves.*

<b>Company</b>	<b>Category</b>	<b>ebXML</b>	<b>Website</b>
BEA	eBusiness integration	ebMS, BPSS	<a href="http://edocs.bea.com/wli/docs70/ebxml/">http://edocs.bea.com/wli/docs70/ebxml/</a>
Bind Systems	Modeling / BPM	BPSS, CPPA, UMM	<a href="http://www.bindsys.com">http://www.bindsys.com</a>
BitDeamons Ltd	Messaging	ebMS	<a href="http://www.bitdaemons.com">http://www.bitdaemons.com</a>
Briyante	Messaging	ebMS	<a href="http://www.briyante.com">http://www.briyante.com</a>
Btrade	eBusiness Services	ebMS	<a href="http://www.btrade.com">http://www.btrade.com</a>
Component-X	Java Components	ebMS	<a href="http://www.enterprise-component.com">http://www.enterprise-component.com</a>
Cyclone Commerce	eBusiness integration	ebMS	<a href="http://www.cyclonecommerce.com">http://www.cyclonecommerce.com</a>
Dasan Technology	eBusiness Services	ebMS	<a href="http://ebxml.tagfree.com:8070/index.html">http://ebxml.tagfree.com:8070/index.html</a>
Data Access Technologies	eBusiness integration	ebMS, BPSS	<a href="http://www.enterprise-component.com">www.enterprise-component.com</a>
Dealersphere	Automotive industry	ebMS	<a href="http://www.sun.com">http://www.sun.com</a>
Dimon Software	Messaging	ebMS	<a href="http://www.dimonsoftware.com">http://www.dimonsoftware.com</a>
Drake Certo	Education services, CertificationTest	ebXML teaching and	<a href="http://www.certivo.net">http://www.certivo.net</a>

Company	Category	ebXML	Website
	solution suite	training	
Drummond Group	Certification	ebXML compliance	<a href="http://www.drummondgroup.com/">http://www.drummondgroup.com/</a>
ebXMLsoft	eBusiness Integration	Registry	<a href="http://www.ebxmlsoft.com">http://www.ebxmlsoft.com</a>
Sonic Software (was eXcelon)	BPM	ebMS, BPSS, CPPA	<a href="http://www.exln.com/products/bpm">http://www.exln.com/products/bpm</a> <a href="http://www.sonicsoftware.com/products/datasheets/docs/sonic_bpm.pdf">http://www.sonicsoftware.com/products/datasheets/docs/sonic_bpm.pdf</a>
Fujitsu Limited	Application Server	ebMS, CPPA, BPSS	<a href="http://interstage.fujitsu.com">http://interstage.fujitsu.com</a>
HanMaek IT	Messaging	ebMS	<a href="http://rnd.hmit.co.kr/ebMS/">http://rnd.hmit.co.kr/ebMS/</a>
InnoDigital Co., Ltd	eBusiness integration	ebMS, BPSS; CPPA, Registry	<a href="http://www.innodigital.co.kr/ebxml/ebxml_main.html">http://www.innodigital.co.kr/ebxml/ebxml_main.html</a>
IONA	eBusiness integration	ebMS Future BPSS and Registry	<a href="http://www.iona.com">http://www.iona.com</a>
Iopsis	eBusiness integration	ebMS, BPSS	<a href="http://www.iopsis.com/products/insight.htm">http://www.iopsis.com/products/insight.htm</a>
IPNet Solutions Inc. Purchased by Inovis	eBusiness Services	ebMS	<a href="http://www.ipnetsolutions.com">http://www.ipnetsolutions.com</a>

<b>Company</b>	<b>Category</b>	<b>ebXML</b>	<b>Website</b>
iWay Software	eBusiness integration	ebMS, BPSS	<a href="http://www.iwaysoftware.com">http://www.iwaysoftware.com</a> <a href="http://www.iwaysoftware.com/products/adapters/ebXML.html">http://www.iwaysoftware.com/products/adapters/ebXML.html</a>
Killdara Corp	Messaging	ebMS	<a href="http://killdara.com/products/vitiris.htm">http://killdara.com/products/vitiris.htm</a> <a href="http://www.killdara.com/press/vitris_launch.htm">http://www.killdara.com/press/vitris_launch.htm</a>
Kinzan	Messaging	ebMS	<a href="http://www.kinzan.com">http://www.kinzan.com</a>
KTNET	eBusiness integration eBusiness services	ebMS, CPPA, Registry	<a href="http://www.xeni.co.kr/">http://www.xeni.co.kr/</a>
Mega Software	eBusiness Integration	ebMS, BPSS	<a href="http://www.mega.com">www.mega.com</a>
Mercator	eBusiness integration	ebMS	<a href="http://www.mercator.com">http://www.mercator.com</a>
Oracle	Application Server	ebMS	<a href="http://otn.oracle.com/products/ias/daily/Aug16.html">http://otn.oracle.com/products/ias/daily/Aug16.html</a>
Ponton Consulting	eBusiness integration	ebMS	<a href="http://www.ponton.de/english/xp.html">http://www.ponton.de/english/xp.html</a>
POSDATA	eBusiness integration	ebMS, BPSS, CPPA, Registry CC	<a href="http://www.posdata.co.kr">www.posdata.co.kr</a> <a href="http://kimgyver.posville.com/BizBinder/index.html">http://kimgyver.posville.com/BizBinder/index.html</a>

Company	Category	ebXML	Website
Samsung, SDS, Korea	eBusiness integration	ebMS; CPPA	<a href="http://www.sds.samsung.com/index.jsp">http://www.sds.samsung.com/index.jsp</a> <a href="http://www.bizentro.com">www.bizentro.com</a>
SeeBeyond	eBusiness integration	ebMS	<a href="http://www.seebeyond.com">http://www.seebeyond.com</a>
Seeburger AG	eBusiness integration	ebMS	<a href="http://www.seeburger.de/">http://www.seeburger.de/</a>
smartdraw.com	eBusiness services	BPSS CPPA	<a href="http://visualscript.com">http://visualscript.com</a>
Sockeye Solutions	eBusiness services and integration	BPSS (with process integration)	<a href="http://www.sockeyesolutions.com/news-news.asp">http://www.sockeyesolutions.com/news-news.asp</a>
Sterling Commerce	eBusiness integration	ebMS CPPA BPSS	<a href="http://www.stercomm.com">http://www.stercomm.com</a>
Storefront.COM	eBusiness integration	Unknown	<a href="http://www.storefront.com">www.storefront .com</a> <sup>16</sup>
Sun Microsystems	Network computing	ebMS, Registry (JAXR) CPPA	<a href="http://www.sun.com">http://www.sun.com</a>
Sybase Inc	eBusiness integration	ebMS, BPSS, CPPA	<a href="http://www.sybase.com">http://www.sybase.com</a>
TIBCO	eBusiness	ebMS	<a href="http://www.TIBCO.com/products/exchange.html">http://www.TIBCO.com/products/exchange.html</a>

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<sup>16</sup> Working on a PHP implementation (PHP is an HTML-embedded scripting language) – actual components unknown (Murray Macdonald).

<b>Company</b>	<b>Category</b>	<b>ebXML</b>	<b>Website</b>
Software Inc	integration		
Vitria	eBusiness integration	ebMS Future BPSS	<a href="http://www.vitria.com/products/standards/?st=ebxml">http://www.vitria.com/products/standards/?st=ebxml</a>
WebMethods	eBusiness integration	ebMS	<a href="http://www.webmethods.com">http://www.webmethods.com</a>
Webswell	eBusiness integration	ebMS, Registry	<a href="http://www.webswell.com/">http://www.webswell.com/</a>
Whitehill Technologies	XML generation	TBD	<a href="http://www.whitehilltech.com/">http://www.whitehilltech.com/</a>
XENI	eBusiness integration	Registry	<a href="http://xeni.co.kr">http://xeni.co.kr</a>
Adobe	eBusiness services	ebMS Registry CPPA (beta)	<a href="http://www.adobe.com">http://www.adobe.com</a>
Zenaptix	BPM	BPSS, ebMS	<a href="http://zenaptix.com">http://zenaptix.com</a>

## Common ebXML Acronyms

Like any technology sector ebXML has its own set of terms and usage. The following table serves as a guide.

<b>Term</b>	<b>Description</b>
ebMS	ebXML Messaging Services – component that implements the messaging interchange specifications.
CPP	Collaboration Protocol Profile – used with messaging services to configure access to an ebMS system.
CPPA	Collaboration Protocol Profile and Agreement; OASIS TC (technical committee) defining standards for business agreements for interchanges. <a href="http://www.oasis-open.org/committees/ebxml-cppa/">http://www.oasis-open.org/committees/ebxml-cppa/</a>
CCSD	Core Component Supplemental Documents
BPSS	Business Process Specification Schema; defines a business process in achieve a physical business interchange between parties
Registry	An ebXML Registry component conforming to the OASIS ebXML Registry specifications.
IIC	Implementation, Interoperability and Conformance; OASIS TC (technical committee) defining test suites for ebMS components.
Core Component	Conceptual term for nouns and collections of nouns (BIEs – business information entities) that represent primitive business units of information.
SME	Small to Medium Enterprise; US Government term for a small business (under 500 employees).
ebXML	Electronic Business XML

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