



Creating A Single Global Electronic Market

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electronic business XML (ebXML) Requirements Specification Version 1.04

ebXML Requirements Team

March 19, 2001

1 Status of this Document

This document specifies an ebXML DRAFT for the eBusiness community.

Distribution of this document is unlimited.

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36

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38 We would like to recognize the following for their significant participation to the
39 development of this document.

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59

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61 of the other ebXML Project Teams.

62

63

64

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122 4 Document Introduction

123 4.1 Summary of Contents of Document

124 This *ebXML Requirements Specification* represents the work of the *ebXML Requirements*
125 *Project Team*. It defines ebXML and the ebXML effort, articulates business requirements
126 for ebXML, and defines specific requirements that shall be addressed by the various
127 ebXML project teams in preparing their deliverables.

128
129 The keywords MUST, MUST NOT, REQUIRED, SHALL, SHALL NOT, SHOULD,
130 SHOULD NOT, RECOMMENDED, MAY, and OPTIONAL, when they appear in this
131 document, are to be interpreted as described in RFC 2119 [Bra97].
132

133 4.2 Audience

134 The target audiences for this document are:

- 135 • ebXML Project Teams, as a foundation for developing their technical specifications
- 136 • Other interested parties, as a means to convey the purpose, scope, and vision of
137 ebXML

138

139 4.3 Related Documents

140

141 ebXML Invitation - http://www.ebXML.org/documents/199909/ebXML_invitation.htm

142

143 ebXML Terms of Reference (TOR) -

144 http://www.ebXML.org/documents/199909/terms_of_reference.htm

145

146 Recommendations for ebXML Kickoff Meeting - UN/CEFACT/TMWG/N104 -

147 <http://www.ebxml.org/documents/contributions/tm104.pdf>

148

149 *Technical Reports and Publications*, World Wide Web Consortium,

150 <http://www.w3.org/TR>

151 *United Nations Layout Key for Trade Documents*, Recommendation No. 1, second
152 edition, adopted by the Working Party on Facilitation of International Trade Procedures,
153 Geneva, March 1981 Source: ECE/TRADE/137

154

155 *Authentication of Trade Documents by Means Other Than Signature*, Recommendation
156 No. 14, second edition, adopted by the Working Party on Facilitation of International
157 Trade Procedures, Geneva, March 1979 Source: TRADEWP.4/INF.63

158

159 *Information technology -- Specification and standardization of data elements* ISO/IEC
160 [ISO 11179]

161

162 *SIMAC Future Vision Statement* - UN/CEFACT Ad Hoc Working Group on Simple-EDI
163 and Forms and Web Based EDI (SIMAC) - document TRADE/CEFACT/1999/CRP.12,
164 <http://www.unece.org/trade/untdid/download/99cp12.pdf>

165

166 **4.4 Documentation Conventions**

167 The following highlighting is used for non-normative commentary in this document:

168

169 [Issue -]: A recorded issue.

170

171 [Ed. Note -]: Notes from the editors to themselves or the Working Group.

172

173 [NOTE -]: General comments directed to all readers.

174

175 **5 General Introduction**

176 Electronic Business Extensible Markup Language (ebXML) is an international initiative
177 established by the United Nations Centre for Trade Facilitation and Electronic Business
178 (UN/CEFACT) and the Organization for the Advancement of Structured Information
179 Standards (OASIS) with a mandate to undertake a 15-18 month program of work. As
180 identified in the ebXML Terms of Reference, the purpose of the ebXML initiative is to
181 research and identify the technical basis upon which the global implementation of XML
182 can be standardized. The goal is to provide an XML-based open technical framework to
183 enable XML to be utilized in a consistent and uniform manner for the exchange of
184 electronic business (eb) data in application to application, application to human, and
185 human to application environments—thus *creating a single global electronic market*.^{TM 1}

186

187 ebXML is based on international standards and is itself intended to become an
188 international standard. A key aspect for the success of the ebXML initiative is adherence
189 to the use of the W3C suite of XML and related Web technical specifications to the
190 maximum extent practical. Although these specifications may not provide the optimal
191 technical solution, acceptance of ebXML by the business community and technical
192 community is tied to XML. However, certain key elements of the ebXML technical
193 framework may require adopting alternative technologies and technical specifications—
194 such as those of the Internet Engineering Task Force (IETF), International Organization
195 for Standardization (ISO), Institute of Electrical and Electronics Engineers (IEEE),
196 International Electrotechnical Commission (IEC), UN/CEFACT, OASIS, and the Object
197 Management Group (OMG).

198

¹ "creating a single global electronic market" is a trademark of the ebXML Working Group

199 [NOTE - ebXML operates under the procedures identified in the ebXML Terms of
200 Reference]

201 **5.1 ebXML Vision and Scope**

202 **5.1.1 ebXML Vision**

203 The ebXML vision is to deliver:

204

205 *"A single set of internationally agreed upon technical specifications that consist of*
206 *common XML semantics and related document structures to facilitate global trade."*

207

208 This ebXML technical specifications are intended to create a *Single Global Electronic*
209 *Market.*™ To create this single global electronic market, this single set of ebXML
210 technical specifications:

211

- 212 ♦ is fully compliant with W3C XML technical specifications holding a
213 recommended status
- 214 ♦ provides for interoperability within and between ebXML compliant trading partner
215 applications
- 216 ♦ maximizes interoperability and efficiency while providing a transition path from
217 accredited electronic data interchange (EDI) standards and developing XML
218 business standards
- 219 ♦ shall be submitted to an appropriate internationally recognized standards body for
220 accreditation as an international standard

221 **5.1.2 ebXML Scope**

222 The ebXML initiative is targeted at every sector of the business community, from
223 international conglomerate to small and medium sized enterprises engaged in business-to-
224 business and business-to-consumer trade. With that audience in mind, the ebXML
225 initiative is committed to developing and delivering specifications that will be used by all
226 trading partners interested in maximizing XML interoperability within and across trading
227 partner communities.

228 **5.2 ebXML Requirements Specification Purpose and Scope**

229 The *ebXML Requirements Specification* purpose and scope are defined in the following
230 sub-sections.

231 **5.2.1 ebXML Requirements Specification Purpose**

232 This *Requirements Specification* has two primary purposes. The first of these is to
233 provide clearly articulated requirements from representatives of international business

234 and accredited standards organizations. These requirements are intended to serve as a
235 foundation for all other ebXML specifications and should assist the ebXML project team
236 members in developing their deliverables in a consistent manner. This specification is
237 also intended to convey to interested parties the purpose, scope, and vision of ebXML.

238 **5.2.2 ebXML Requirements Specification Scope**

239 This *ebXML Requirements Specification* applies to the work underway within the current
240 ebXML project teams. Each project team has provided input to this document to ensure
241 consensus with its contents. In addition to the *Requirements Project Team*, project teams
242 currently chartered by the ebXML steering committee are:

- 243 ◆ Business Process
- 244 ◆ Technical Architecture
- 245 ◆ Core Components
- 246 ◆ Transport/Routing and Packaging
- 247 ◆ Registry and Repository
- 248 ◆ Trading Partner
- 249 ◆ Proof of Concept

250 In addition, the following special management support teams are chartered by the
251 ebXML Executive Committee:

- 252 ◆ Quality Review
- 253 ◆ Marketing Awareness
- 254 ◆ Project Management

255 **5.3 General ebXML Principles**

256 General ebXML principles to be followed in developing ebXML deliverables are to
257 create technical specifications that:

- 258 ◆ Enable simple, easy and ubiquitous electronic business through use of XML
- 259 ◆ Use approved W3C XML technical specifications to the maximum extent
260 practicable
- 261 ◆ Provide a global cross-industry open/interoperable standard for business-to-
262 business and business-to-consumer trade

- 263 ◆ Coalesce the structure and content components of divergent XML initiatives into a
264 single useable XML business standard
- 265 ◆ Provide impetus so that common resources currently engaged in short-term
266 solutions shall be marshaled to reach a common long-term solution goal
- 267 ◆ Support vertical and horizontal segments of industry and business participants
- 268 ◆ Avoid proprietary solutions that impose financial or software requirements
269 constraints on ebXML users to buy, install or programmatically support any
270 ebXML unique software products in the conduct of business information exchange
- 271 ◆ Strive to minimize costs of doing business electronically
- 272 ◆ Provide multi-lingual support
- 273 ◆ Accommodate national and international trade requirements
- 274 ◆ Provide a migration path from accredited EDI and developing XML business
275 standards
- 276 ◆ Apply when possible the simplification principles of SIMAC Business
277 Requirements
- 278

278

279 **6 Business Requirements**

280 This section describes the business requirements for business to be conducted
281 electronically. The business requirements identified in this section are oriented toward
282 using XML for electronic business, but most of the requirements are applicable to
283 implementation with other technologies as well.

284

285 The scope of the ebXML business requirements is to meet the needs for the business side
286 of both business to business (B2B) and business to consumer (B2C) activities. Consumer
287 requirements of the B2C model are beyond the scope of the ebXML technical
288 specifications. Application-to-application (A2A) exchanges within an enterprise may also
289 be able to use the ebXML technical specifications, however ebXML A2A solutions shall
290 not be developed at the expense of simplified B2B and B2C solutions.

291

292 [NOTE - for ease of reading, the term business is to be interpreted as interchangeable
293 with for-profit, non-profit, not-for profit, and government entities.]

294

295 [NOTE - For the purposes of this document, Application-to-Application is defined as the
296 computer to computer exchange of business information without human intervention both
297 within and across enterprise boundaries.]

298

299 The business requirements to be addressed by the ebXML initiative are divided into nine
300 core areas - General Business, Electronic Business, Globalization, Openness ,
301 Usability/Interoperability, Security, Legal, Digital Signature, and Organizational. Each of
302 these requirements is identified in the following sections.

303 **6.1 General Business Requirements**

304 Business has a real need to use new technology with minimized investment to gain
305 competitive advantage. The advent of the Internet and World Wide Web has proven to
306 offer such benefits. However, realizing these benefits requires a functionally neutral
307 standard method of exchanging data. Specifically, business needs a solution that
308 provides:

- 309 ◆ A single, consistent, simple approach to using XML for electronic business
310 processes in both the B2B and B2C environments
- 311 ◆ A process and recommendation for ebXML conformance
- 312 ◆ Support for both vertical (e.g. industry, functional, organizational) and horizontal
313 (e.g. cross-industry, multi-functional, organizationally neutral) solutions regardless
314 of the sophistication of the user

- 315 ♦ Support for a range of implementations from basic, low cost solutions appropriate
316 for Small and Medium Enterprise (SME) deployment, to comprehensive, complex
317 implementations using all optional features appropriate to large enterprises
- 318 ♦ A range of usage from using core features in ad hoc, informal exchanges to highly
319 formal, structured exchanges
- 320 ♦ A single consistent modeling language and methodology
- 321 ♦ Support for current business models and practices as well as new ones developed
322 through business process modeling
- 323 ♦ A superset business process metamodel that supports individually developed
324 business process models
- 325 ♦ Design rules for developing ebXML compliant XML documents that are based on
326 approved W3C schema specifications
- 327 ♦ Syntactically neutral core components
- 328 ♦ XML syntax based core schema's and tags to support individual trading partner
329 business processes that -
- 330 ↗ eliminate duplication of effort
- 331 ↗ provide support for XML metadata
- 332 ↗ clearly identify core, mandatory features, and optional features
- 333 ↗ provide a mechanism for full specification of semantic meaning
- 334 ♦ Fully interoperable transport, routing, and packaging solutions
- 335 ♦ Security solutions that meet business confidentiality requirements
- 336 ♦ A single recognized international standards organization to oversee continued
337 ebXML work
- 338 ♦ An open development process with no barriers to entry
- 339 ♦ Open, readily accessible, perpetually free technical specifications and standards
- 340 ♦ A solution that minimizes costs for development, maintenance, and use
- 341 [NOTE - Business looks to XML as a means of gaining competitive advantage through
342 leveraging new technology. Minimizing the cost of doing business electronically is a key
343 element in achieving a competitive advantage. The cost of doing business electronically

344 can be grouped into acquisition, development, deployment and customization, integration
345 with business applications, and operations and support. It is expected that using XML for
346 electronic business will be less costly than traditional forms of EDI and other existing
347 electronic commerce technologies in each of these areas. This expected cost reduction is
348 a driving force for considering XML over traditional EDI technologies.]

349 **6.2 Conducting Electronic Business using ebXML**

350 Business applications need to be able to exchange structured business documents
351 (encoded in XML) with a corresponding application of another enterprise to support a
352 business process. This exchange may either be completely without human intervention,
353 as is the case with traditional EDI, or with some level of human intervention to correct
354 missing or erroneous data. Business applications may also need to exchange structured
355 business documents with intermediaries such as portals and brokers. Because a majority
356 of businesses do not have sophisticated IT architectures, business applications will need
357 to exchange structured business documents with trading partners who will be limited to
358 viewing and manually processing both inbound and outbound transactions. Business
359 applications also require information exchange mechanisms that provide for the exchange
360 of pure XML payloads but may also support plug and play, shrink wrapped, syntactically
361 neutral solutions.

362 Additionally, business applications may also need to:

- 363 ◆ Be able to generate XML encoded business documents that can be used in
364 traditional computer to computer exchanges as well as being displayed using an
365 associated style sheet keyed to a specific presentation format; such as the
366 appropriate U.N. Layout Key for Trade Documents or a trading partner specified
367 format
- 368 ◆ Enable data entry of business documents using a specified presentation format;
369 such as the appropriate U.N. Layout Key for Trade Documents or a trading partner
370 specified format. The data entry shall result in an ebXML compliant encoded
371 document representing the business information.

372 **6.3 Globalization**

373 Global solutions are critical in today's ever expanding marketplace. The underlying
374 purpose of ebXML is to facilitate international trade. To achieve "*a single global*
375 *electronic market*" that such facilitation implies, it is critical to simplify existing
376 exchange standards methodologies and harmonize divergent approaches. This
377 simplification and harmonization can be achieved through developing a business
378 metamodel in conjunction with syntax neutral core components. Both of these
379 deliverables shall accommodate divergent national and multi-national process
380 requirements, and should support backward compatibility with the developing ebXML
381 technical framework.
382

383 To simplify development efforts, all work shall use English. To support globalization, all
384 ebXML technical specifications shall be translatable into other natural languages.
385 Translation into other natural languages is the responsibility of the intended user,
386 although such translations should be supported in the ebXML repository. Regardless of
387 language, and in keeping with the requirements of XML 1.0, all work shall be compliant
388 with Unicode and ISO/IEC 10646 for characters, Internet RFC 1766 for language
389 identification tags, ISO 639 for language name codes, and ISO 3166 for country name
390 codes.

391 **6.3.1 Openness**

392 Openness is a critical aspect of ebXML. Business requires the ability to easily access
393 ebXML technical specifications without regard to "membership", or payment of access
394 and/or use fees. ebXML technical specifications shall be completely open to all potential
395 users so as to eliminate the barriers for entry. Openness requires several key components
396 to ensure viability. Chief among these is an open, easily accessible registry and repository
397 for the ebXML technical specifications.

398 **6.3.2 Registry and Repository**

399 A registry is required to allow process owners to submit, classify, register and update
400 mapping templates, business process specifications, and data interchange specifications.
401 This registry must have an interface that supports access by humans as well as computer
402 applications. This registry must support an agreed upon security protocol.

403
404 A repository is required for storage and retrieval of various items that support performing
405 business electronically. There are two distinct sets of business requirements on the
406 repository: a set dealing with managing the workflow of developing standard components
407 that are stored in the repository, and a set dealing with application usage of the
408 repository. Additionally, the repository must support the information needs of the
409 ebXML work group and project teams, as well as ebXML technical specification users
410 with respect to glossaries and products.

411
412 [NOTE - A registry is a mechanism whereby relevant documents and metadata about
413 them can be registered such that a pointer to their location, and all their metadata, can be
414 retrieved as the result of a query. A repository is a location or a set of distributed
415 locations where documents pointed at by the registry reside and from which they can be
416 retrieved by conventional (http / ftp) means, perhaps with additional
417 authentication/permission layers.]

418
419 The ebXML Registry and Repository shall support the concept of a network of registries
420 and repositories that can intercommunicate via the interfaces specified by the ebXML
421 *Registry and Repository Project Team*. A registry can be established by an industry group
422 or standards organization and can intercommunicate with any number of repositories. In
423 addition, context with a repository can reference content within another repository. The
424 concept of a single repository is not scalable, nor does it promote the idea of a global
425 web.

426

427 If ebXML is to exist beyond its initial 18-month timeframe, then ebXML should maintain
428 responsibility for ebXML technical specifications, ebXML work group deliverables, and
429 ebXML glossaries in an ebXML-supported repository. However, if the decision is made
430 that ebXML will not exist after the initial set of deliverables, or that ebXML will not
431 maintain or support its own repository, then ebXML must determine if repository
432 oversight responsibilities for ebXML technical specifications should transition to
433 UN/CEFACT, OASIS, XML.ORG, BizTalk, or some other existing XML business
434 standards organization or consortium

435 **6.4 Usability/Interoperability**

436 Usability and interoperability of the ebXML technical framework are critical business
437 requirements. Components of usability and interoperability are architecture; transport,
438 routing, and packaging; extensibility; and leveraging existing technology. Each of these
439 is addressed in the following sub-sections.

440 **6.4.1 Architecture**

441 This is a primary requirement of the ebXML initiative. To maximize interoperability, the
442 ebXML architecture should support

- 443 ◆ Common Business Processes - Both entities involved in the exchange of data must
444 be engaged in executing the same transaction in the context of a business process
- 445 ◆ Common Semantics – Common meaning, as distinct from words, expression, or
446 presentation
- 447 ◆ Common Vocabulary - A direct correspondence between words and meaning
- 448 ◆ Common Character Encoding

449 [NOTE - UNICODE, which is specified in the W3C XML Version 1.0 technical
450 specification, provides this.]

- 451 ◆ Common Expression - Common set of XML element names, attributes and
452 common usage of those attributes, common approach to document structure
- 453 ◆ Common Security Implementations
- 454 ◆ Common Data Transfer Protocol
- 455 ◆ Common Network Layer

456 [NOTE - As with other non-functional requirements, some aspects of achieving
457 interoperability may conflict with other non-functional requirements. Where a
458 requirement is not met, software can usually be developed to provide a bridge. However,
459 such bridges may increase costs of development, implementation, or both, and conflict

460 with cost minimization. In other cases, achieving interoperability enhances other
461 requirements. For example, maximizing interoperability helps to achieve platform
462 independence.]

463 **6.4.2 Transport, Routing, & Packaging**

464 Any exchange of business information requires fully described transport, routing, and
465 packaging methodologies. These descriptions must be based on a program language
466 definition independent of the service interface required for systems to control the
467 messaging system for the purpose of sending and receiving messages. These descriptions
468 should identify the behavior of the messaging system required to:
469

- 470 ◆ Realize reliable secure sending and receiving of messages over any network
471 capable of carrying XML
- 472 ◆ Support syntax neutral definition of the information that needs to be held in the
473 supporting messaging policy repository
- 474 ◆ Detail the format and structure of the wrapper, header, and any other data within
475 the message - to include signatures and encryption
- 476 ◆ Query ebXML servers (such as ebXML compliant message handling systems or
477 registries) for the services they support

478 **6.4.3 Extensibility**

479 Businesses seek solutions that provide for a certain level of customization beyond core
480 standards. This extensibility is necessary to ensure internally unique business process
481 requirements can be addressed beyond the scope of standards used for information
482 exchanges between businesses. One example of this requirement is customization beyond
483 core standards to support exchanges within an enterprise. Another is customization to
484 support application/database to human exchanges. ebXML must ensure extensibility is
485 facilitated while ensuring conformance with core standards.

486 **6.4.4 Leveraging Existing Technology**

487 Leveraging existing technology encompasses both the ability to inter-operate with
488 existing technology as well as the ability to migrate to the new technology. Each of these
489 is discussed in the following sub-sections.

490 **6.4.4.1 Compatibility with existing Technology and EB standards and practices**

491 Businesses already have in place extensive EDI architectures and business solutions
492 based on accredited EDI standards; and customized sub-sets in the form of
493 implementation conventions based on those standards. Additionally, many businesses are
494 implementing XML solutions that are based on the technical specifications issued by the
495 World Wide Web Consortium (W3C) and the XML-based business standards of various
496 competing XML groups—such as RosettaNet, BizTalk, XML.ORG, the Open
497 Applications Group (OAG). Although the ebXML solution will facilitate a single global

498 electronic market, and although its technical framework will provide a single set of
499 technical specifications, businesses will still require the ability to inter-operate their
500 existing EDI and XML solutions with solutions built on the ebXML framework.

501

502 As part of compatibility, businesses require a technical framework that reuses common
503 elements regardless of syntax. To ensure a syntax neutral solution, ebXML must identify
504 and define those items considered common across XML business data exchanges.
505 Common items are semantic units at any level that stay consistent across contexts, and
506 therefore are reusable both within and between business exchange messages. Business
507 process models will help define common items and provide their context. This context
508 will in turn define the precise use of common items in messages exchanged among
509 parties. ebXML must describe these items in terms that are independent of
510 implementation syntax. This syntax neutral approach will enable their reuse for not only
511 XML documents, but other syntax-based transactions as well. The ebXML technical
512 framework must adopt—or if needed, develop—a methodology to consistently build or
513 derive core components, including methods to encourage reuse and provide for
514 extensions. ebXML must identify element names that can apply across business processes
515 and contexts yet still allow for translation into leading spoken languages. All ebXML
516 work shall generate the content of core components independent of implementation
517 syntax, but with references to data structures in XML messages and EDI transactions.
518 The ebXML solution shall identify attributes that describe the context of the components
519 also in terms independent of syntax.

520 **6.4.4.2 Migration from existing EDI and XML solutions**

521 Businesses seek maximum interoperability between their applications and trading partner
522 applications. This can be achieved by a single way of doing business electronically, i.e., a
523 single standard for using XML for electronic business. However, many businesses also
524 have a considerable investment in existing standards based EDI and emerging XML
525 business approaches. These businesses require a mechanism and migration path for
526 accommodating legacy EDI solutions based on accredited standards and XML solutions
527 already in progress or implemented. Although migration from existing EDI and XML
528 solutions is a key element of ebXML, the ebXML solution will ensure maximizing
529 interoperability takes precedence in developing the ebXML technical specifications.

530

531 [NOTE - It is beyond the current scope of the ebXML initiative to develop specific
532 migration and transformation methods to include mapping services, communication
533 channels, and architecture support from traditional EDI architectures.]

534 **6.5 Security**

535 Aspects of security may be required at both a session layer (i.e., for the duration of a
536 network session in which data is exchanged) or be applied to a single, stand-alone
537 document instance. In addition, application of security to a particular exchange or
538 document instance must be determined by the business needs, and allow unrestricted and
539 unsecured interchanges as the default. All, some, or no security features may be required

540 in any particular exchange of business information. Additionally, the following
541 requirements must be addressed:

- 542 ◆ Confidentiality - Only sender and receiver can interpret document contents
- 543 ◆ Authentication of sender - Assurance of the sender's identity
- 544 ◆ Authentication of receiver - Assurance of the receiver's identity
- 545 ◆ Integrity - Assurance that the message contents have not been altered
- 546 ◆ Non-repudiation of Origin - The sender can not deny having sent the message
- 547 ◆ Non-repudiation of Receipt - The receiver can not deny having received the
548 message
- 549 ◆ Archiving - It must be possible to reconstruct the semantic intent of a document
550 several years after the creation of the document

551 [NOTE - The archiving, Authentication and Non-Repudiation of Origin and Receipt may
552 be performed by a trusted third party through which the Parties to a transaction agree to
553 channel transaction messages in order to provide independent historical proof that the
554 transaction took place at a specific time and on specific terms.]

555 [NOTE - This time period is subject to the archiving and record retention requirements of
556 particular situations. In general, businesses might require archiving and retrieval of up to
557 30 years after document creation.]

558 **6.6 Legal**

559 Beyond the security requirements identified in section 2.6, the following additional legal
560 requirements exist:

- 561 ◆ Comply with the requirements of UN/CEFACT recommendation 14 -
562 *Authentication of Trade Documents by Means Other Than Signature*
- 563 ◆ Provide versioning support to facilitate reconstructing the semantic meaning of
564 transactions in accordance with the underlying transaction format used
- 565 ◆ Ensure full audit capability is supported
- 566 ◆ Ensure all transmitted data is well defined by a minimal set of metadata
- 567 ◆ Ensure a mechanism provides for identifying completeness of a transaction

568 **6.7 Digital Signatures**

569 Digital signatures, or electronic signatures, have security and legal implications that
570 directly impact on electronic business requirements. As more and more government
571 bodies define digital signatures, and enact legislation that adopts such techniques as
572 having the same force of law as traditional signatures, new technology solutions must
573 accommodate these business requirements.

574

575 The following definition and statement of compliance requirements is taken from Article
576 6 of UN Commission on International Trade Law, Working Group on Electronic
577 Commerce, Draft Guide to Enactment of the UNCITRAL Model Law on Electronic
578 Signatures (A/CN.9/WG.IV/WP.88)

579

580 (1) Where the law requires a signature of a person, that requirement is met in relation to a
581 data message if an electronic signature is used which is as reliable as was appropriate
582 for the purpose for which the data message was generated or communicated, in light
583 of all the circumstances, including any relevant agreement.

584 (2) Paragraph (1) applies whether the requirement referred to therein is in the form of an
585 obligation or whether the law simply provides consequences for the absence of a
586 signature.

587 (3) An electronic signature is considered to be reliable for the purpose of satisfying the
588 requirement referred to in paragraph (1) if:

589 (a) the signature creation data are, within the context in which they are used,

590 linked to the signatory and to no other person;

591 (b) the signature creation data were, at the time of signing, under the control
592 of the signatory and of no other person

593 (c) any alteration to the electronic signature, made after the time of signing, is
594 detectable; and

595 (d) where a purpose of the legal requirement for a signature is to provide
596 assurance as to the integrity of the information to which it relates, any
597 alteration made to that information after the time of signing is detectable.

598

599 The ebXML technical framework must support electronic transactions that provide for
600 electronic signatures at an appropriate level within the transaction to meet requirements
601 of both the sender and receiver in keeping with the forgoing definition and attributes.

602 **6.8 Management**

603 If ebXML is to be successful in both the short and long term, and if the ebXML technical
604 framework is to be adopted by the international business community, then management
605 issues associated with both organizational structure and participation must be addressed.
606 The following sub-sections identify the business requirements for each of these areas.

607 **6.8.1 Organizational Structure**

608 The ebXML initiative is an eighteen-month effort to develop a technical framework. To
609 ensure efficiency of operation and success in achieving the ebXML vision, sufficient

610 organizational controls must be put in-place as quickly as possible. Further, there exists
611 the possibility that ebXML will become more than a short term initiative. As such, long
612 term requirements for managing ebXML must be defined and addressed in the near term
613 to ensure a smooth transition from short to long term management. Further, if such a
614 long-term organization becomes reality, processes must be adopted for recasting ebXML
615 as an internationally accredited standards body.

616 **6.8.2 Participation**

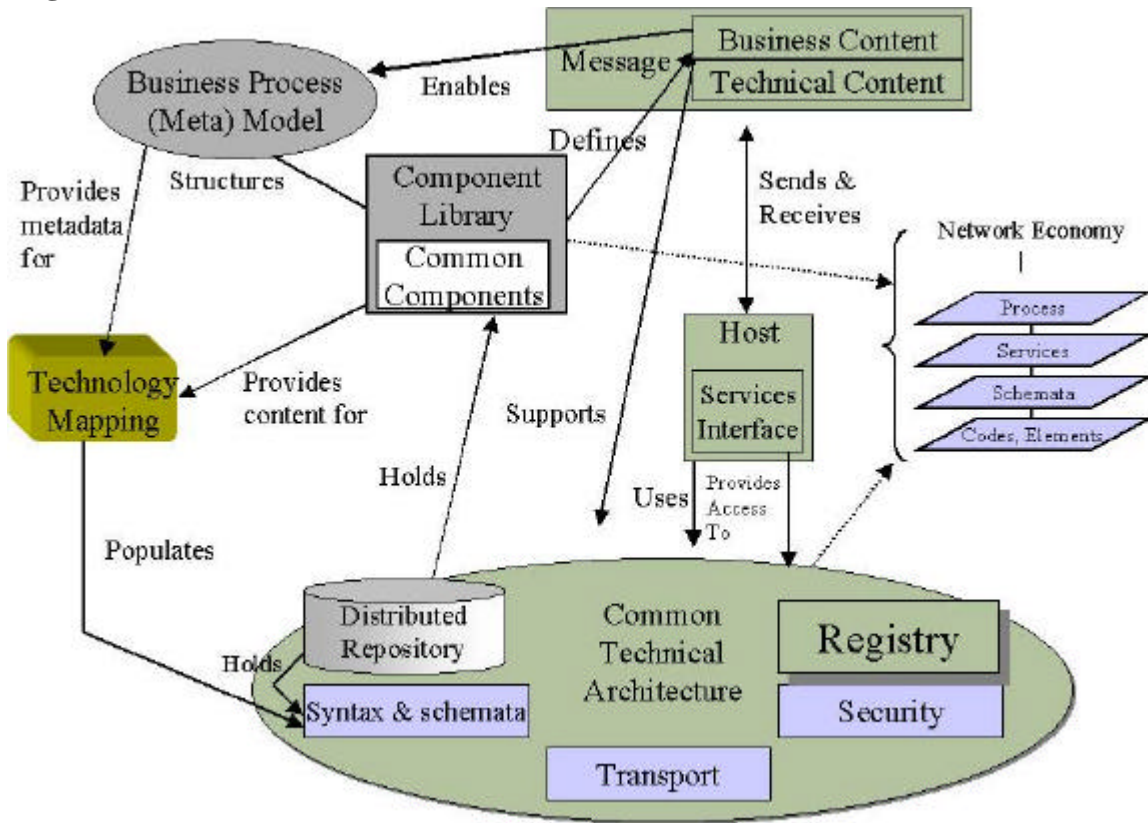
617 The ebXML initiative relies heavily on technical expert participation. This participation
618 must be free of organizational requirements that restrict or otherwise inhibit participation
619 of anyone. Further, participation should be limited to the individual and not at the
620 organizational level. This will ensure each technical expert is given an equal footing in
621 the organization, management, and work effort of ebXML.
622

622

623 **7 ebXML Technical Framework Requirements**

624 This section identifies specific requirements for achieving the ebXML technical
 625 framework through the work of each of the ebXML project teams. These requirements
 626 have been developed in close coordination with those project teams to ensure consensus
 627 on their content. These high level requirements are closely aligned with the business
 628 requirements in section two of this document and are consistent with the vision, purpose,
 629 scope and guiding principles contained in section one. These high level requirements are
 630 carefully designed to provide a road map for the respective project teams as they drill
 631 down to more detailed requirements in preparation for developing their ebXML
 632 deliverables. As each of these deliverables becomes a reality, they will contribute to the
 633 developing ebXML technical specifications as part of building the ebXML technical
 634 framework as illustrated in Figure 3-1.
 635
 636

Figure 3-1 ebXML Technical Framework



637 **7.1 General Requirements**

638 The following general requirements, in conjunction with the business requirements stated
 639 in section two, apply to each project team. Deliverables for each of the project teams
 640 must -

- 641 ◆ Be developed in compliance with the purpose, scope, and guiding principles
- 642 identified in Section 1
- 643 ◆ Meet the business needs articulated in section two
- 644 ◆ Be fully compliant with approved ebXML technical specifications
- 645 ◆ Clearly identify core, mandatory features, and optional features
- 646 ◆ Clearly define conformance requirements
- 647 ◆ Support the requirements of each project team as identified in the following sub-
- 648 sections.

649 **7.2 Requirements**

650 The *Requirements Project Team's* initial task was to produce this *ebXML Requirements*

651 *Specification*. In addition, the *Requirements Project Team* shall:

- 652 ◆ Develop follow-on requirements documents in support of the ebXML Executive
- 653 Committee and ebXML Steering Committee that meet the requirements contained
- 654 in section 4 of this document
- 655 ◆ Review, evaluate, and assimilate follow-on requirements submitted by external
- 656 organizations for consideration by ebXML

657 Provide assistance as required to the *Quality ReviewSupport Team* on ebXML

658 requirements issues to include at a minimum a requirements traceability matrix

659 **7.3 Business Process**

660 The *Business Process Project Team* detailed requirements and deliverables shall:

661

- 662 ◆ Provide a technical specification for business process definition (BPDS), enabling
- 663 an organization to express its business processes so that they are understandable by
- 664 other organizations, thereby enabling integration of business processes (See for
- 665 example eCo strategic framework- services and interactions)
- 666 ◆ Provide an explicitly specified process metamodel that is not merely implied by
- 667 instantiations or derivations
- 668 ↗ the metamodel shall provide set of rules to define the business processes—rules,
- 669 semantics and syntax
- 670 ◆ Provide a BPDS that is usable -
- 671 ↗ globally

- 672 ↗ cross-industry
- 673 ↗ by small, medium, and large organizations
- 674 ↗ by for-profit and government and/or non-profit organizations
- 675 ♦ Provide a BPDS that enables an organization to express its business processes to
676 such an extent that other organizations can discover -
- 677 ↗ the kind of organization the process belongs to
- 678 ↗ the business processes belonging to an organization
- 679 ↗ the interaction points in the organization's business process in order to determine
680 whether and how to engage in business
- 681 ↗ the kinds of information exchanges required to conduct a particular interaction in
682 the business process
- 683 ↗ company interactions and services and categorizations of them
- 684 ♦ Provide for BPDS compatibility by -
- 685 - allowing for forward migration from existing frameworks to the degree possible
- 686 ↗ carrying forward accumulated best of breed experience such as—OAG,
687 RosettaNet, HL7—into the ebXML "superset"
- 688 - enabling mapability between content provider defined processes
- 689 - enabling organizations or industry verticals to be able to compare business
690 processes
- 691 ♦ Provide for BPDS re-usability/extensibility by -
- 692 ↗ allowing a company to 're-use' and extend standard, template, or actual business
693 processes as starting points for definition of specific business processes
- 694 ↗ encouraging industry verticals to base their model on the high level framework
- 695 ↗ supporting re-usable data components
- 696 ↗ supporting re-usable process components
- 697 ♦ Enable business processes to be accessible and readable by -
- 698 ↗ making BPDS-based processes machine readable

- 699 ↗ expressing processes defined under BPDS in parsable, navigable XML
- 700 ↗ making processes defined under BPDS visually (diagrammatically) viewable
- 701 ↗ Identifying at least one industry standard based tool or technique, through which
- 702 BPDS compliant processes can be defined through diagrammatic drawing

- 703 ◆ Provide a process to create and maintain a -
- 704 [NOTE - this process shall be developed in coordination with the *Core Components*
- 705 *Project Team's* developing process for identifying core components.]
- 706 ↗ glossary of terms related to business process methodology vocabulary such as—
- 707 functional, non-functional, vertical, message, segment, data type—using TMWG
- 708 Unified Modeling Methodology document Annex 1 as a starting point

- 709 ↗ glossary of terms specific to each business process to be modeled

- 710 ↗ glossary of XML tags

- 711 ↗ library of documents based on identified services and interactions

- 712 ↗ web site for ready access to glossaries

- 713 ◆ Be developed in conjunction with the *Registry and Repository Project Team* to
- 714 incorporate technical specifications, models, and required glossaries into the
- 715 ebXML repository

716 **7.4 Technical Architecture**

717 The *Technical Architecture Project Team* detailed requirements and deliverables shall:

718

- 719 ◆ Provide a view for integration of business processes among ad-hoc or established
- 720 independent business partners by electronic means

- 721 ◆ Reduce the need for collaborative business partners to have individual and
- 722 expensive prior agreement on how to integrate business processes

- 723 ◆ Provide a high-level business-centric view of distributed e-business processes

- 724 ◆ Specify the roles, interactions, and interfaces among the various ebXML
- 725 specification components such as—the business process metamodel, core
- 726 components, registry and repository, message handling, and collaboration profiles
- 727 and agreements.

- 728 ◆ Allow for both business processes and enabling technologies to evolve
- 729 independently while retaining long-term investments in both

- 730 ♦ Integrate with new and legacy systems throughout the enterprise
- 731 ♦ Leverage existing technologies and standards
- 732 ♦ In coordination with BP process specification and core components identification,
733 provide for naming conventions for technical and business content in the technical
734 architecture
- 735 ♦ Provide design guidelines for ebXML compliant messages

736 **7.5 Core Components**

737 The *Core Components Project Team* detailed requirements and deliverables shall:

- 738 ♦ Be developed in conjunction with the *Business Process Project Team*
- 739 ♦ Identify a methodology for describing core components within the framework of
740 the Business Process metamodel
- 741 ♦ Define core component content and structure
- 742 ♦ Support reuse and extensibility
- 743 ♦ Provide methodology and examples for XML and EDI instantiation
- 744 ♦ Enable creation of XML business standards

745 The *Core Components Project Team* shall develop core components that shall:

- 746 ♦ Be syntax independent

747 [NOTE - Core components shall not be specifically aligned with any existing syntax
748 based semantics such as ANSI ASC X12 or UN/EDIFACT]

- 749 ♦ Be defined to ensure separation of common core components versus new
750 extensions
- 751 ♦ Incorporate where appropriate ISO/IEC 11179 rules
- 752 ♦ Use semantics solutions that accommodate currently defined accredited EDI
753 semantics where they add value
- 754 ♦ Use a single consistent set of terminology
- 755 ♦ Support context sensitive core components

756 **7.6 Transport/Routing and Packaging**

757 The *Transport/Routing and Packaging Project Team* detailed requirements and
758 deliverables shall:

759 ♦ Specify how to envelope business documents in regard to -

760 ↗ related messages in a collection

761 ↗ physical and/or logical addressing of destination for messages

762 ♦ Specify exchange at the application level

763 ♦ Provide for flexible transaction boundaries

764 ♦ Provide for reliable messaging and error handling

765 ♦ Identify messaging routing

766 ♦ Meet security requirements

767 ♦ Provide for audit trails

768 ♦ Define and meet acceptable levels of quality of service

769 ♦ Support platform independent interoperability

770 ♦ Support restart and recovery

771 [NOTE - for additional technical details, see the Transport, Routing, and Packaging detail
772 requirements specification.]

773 **7.7 Registry and Repository**

774 The *Registry and Repository Project Team* detailed requirements and deliverables shall:

775 ♦ Develop detailed blueprints for an ebXML repository that

776 ↗ uses open management processes

777 ↗ has open and perpetually free access

778 ↗ has interfaces with other existing and planned XML business standards
779 repositories

780 ↗ supports technical specification submission, development, and support

781 ↗ supports required and desired systems services

782 ↗ identifies the long-term strategy for ensuring the continued availability of the
783 repository

784 **7.7.1 Technical Specification Submission, Development, and Support**

785 The registry and repository specifications shall address:

- 786 ◆ Technical specification storage and retrieval for development and runtime views
- 787 ◆ Support for mapping templates—enabling a migration path from existing standards
788 to future ebXML standards
- 789 ◆ Storage—the ability to store objects in their original form, not limited to -
 - 790 ↗ transaction definition, e.g., purchase Item
 - 791 ↗ document definition, e.g., purchase order
 - 792 ↗ classification schemes
 - 793 ↗ ontology sub-trees
 - 794 ↗ trading partner profile instances
 - 795 ↗ code lists
 - 796 ↗ related data, example instances of document definitions, executable code, style
797 sheets
 - 798 ↗ relationships between objects, e.g., storage of semantically equivalent objects
 - 799 ↗ business models
- 800 ◆ A flexible workflow to allow an existing specification to progress through varying
801 sequences of classifications, e.g., progressing a company standard into an industry
802 group and finally into an ebXML technical specification
- 803 ◆ A method for defining what context data is being used in the business process,
804 which may reside within the original package submission
- 805 ◆ Change management facilities
- 806 ◆ Enable hooks into a variety of modeling and development tools
- 807 ◆ Support a role-based security model
- 808 ◆ Support for work request submissions to store associated supporting materials in
809 any electronic format, e.g., PowerPoint documents, audio files, images

- 810 ◆ Indexing of data elements across all the specifications and vertical domains in the
811 repository

812 **7.7.2 System Services**

813 System services consist of required and desired services. The registry and repository
814 specifications shall address both types.

815

816 **7.7.2.1 Required Services**

817 Required services include:

- 818 ◆ Query services—the ability to send a request and retrieve results from a physical
819 storage mechanism, e.g., exact or similar matches and navigation

- 820 ◆ Workflow services—the ability to assign, route, sign-off, and define rules to
821 support the workflow

- 822 ◆ Logging services—the ability to store transactional events, query events, and
823 metrics

- 824 ◆ Repository Interface Discovery service—the ability to expose (sub)set of ebXML
825 interfaces implemented by a repository

- 826 ◆ Quality Assurance Service—the ability to validate content based on its
827 classification

828 **7.7.2.2 Desired Services**

829 Desired services include:

- 830 ◆ Transformation services—the ability to transform objects into another form. (e.g.,
831 IDEF-1X to XMI, XMI to XML Schema)

- 832 ◆ ebXML information services

- 833 ↗ Archives of previous ebXML technical specifications

- 834 ↗ Online access requirements of the other ebXML project teams as defined by their
835 requirements and deliverables

836 **7.8 Trading Partners**

837 The *Trading Partners* Project Team detailed requirements and deliverables shall:

838

- 839 ◆ Define a collaboration-protocol profile (CPP) by which a party can be found
840 through a discovery process. The profile indicates what kind of electronic
841 business to business interactions the party is capable of. The CPP defines the
842 technical components of the interactions, such as supported communication

- 843 profiles, security information, general messaging specifications, and the definition
844 of the collaborative processes that the party supports in interactions with other
845 parties
- 846 ▪ The discovery process itself as a business process that is not within the scope
847 of the Trading-Partners team.
 - 848 ◆ Define a collaboration-protocol agreement (CPA), which records agreement
849 between two parties on how to do electronic business with each other. The CPA
850 can be viewed as the intersection of the two parties' CPPs. It defines the common
851 technical capabilities and the particular services that each provides to the other.
852 ▪ It is a long-term goal to extend the CPA to define multiparty interactions.
 - 853 ◆ Define the content of the CPP such that a software process can compose a CPA
854 from the CPPs of the two parties.
 - 855 ◆ Define the CPA such that it serves the purpose of a configuration document which
856 can be used to configure the two parties' run-time systems to perform the desired
857 business.
 - 858 ◆ Work with the Transport-Routing-Packaging team to ensure that the CPP/CPA
859 provides the needed support for message exchanges and that the message header
860 provides the fields needed to support electronic business under control of a CPA.
 - 861 ◆ Define the collaborative processes that the party can engage in with another party
862 based on the ebXML model for the business process. Elements of the definition
863 include:
 - 864 ▪ The requests that can be sent to the party
 - 865 ▪ The business document schema for each request
 - 866 ▪ The response messages that can be sent as a result of each request
 - 867 ▪ The choreography of the message exchanges

868 **7.9 Proof of Concept**

869 The *Proof of Concept* Project Team detailed requirements and deliverables shall facilitate
870 developing prototype demonstrations for ebXML technical specifications. These
871 prototype demonstrations shall:

- 872 ◆ demonstrate feasibility and interoperability of each of the ebXML technical
873 specifications within a business domain
 - 874 ◆ demonstrate viability of overall ebXML technical framework
- 875

875

876 **8 ebXML Organizational and Procedural Requirements**

877 The ebXML executive committee must put in place organizational and procedural
878 processes as soon as possible. These organizational and procedural processes are critical
879 to enable the various ebXML project teams to make sound decisions in developing their
880 requirements and deliverables. These organizational and procedural processes must:

881 ♦ Facilitate the efforts of the *Requirements* project team and the various executive
882 committee support teams identified in section 4.1.

883 ♦ Support each of the functional project teams to meet their requirements

884 In developing these organizational and procedural processes, the executive committee
885 shall

886 ♦ Follow the purpose, scope, and guiding principles identified in Section 1

887 ♦ Meet the business needs articulated in section two

888 ♦ Facilitate the general requirements in section 3.1

889 ♦ Support the requirements of each project team as identified in section 3

890 These organizational and procedural processes must provide for

891 ♦ An open and consensus driven ebXML management process

892 ♦ An open, timely, and consensus driven ebXML products development process that

893 ↗ is responsive to business needs

894 ↗ has sufficient controls to prevent creation of equivalent components

895 ♦ An open, timely, and consensus-driven ebXML technical specifications approval
896 process that is responsive to business needs

897 Additionally, the Executive and Steering Committees, in conjunction with the full
898 ebXML Work Group must determine:

899 ♦ The requirements for short and long term ebXML relationships with
900 UN/CEFACT, W3C, ANSI, ISO and other standards bodies

- 901 ◆ The requirements for short and long term ebXML relationships with OASIS,
902 BizTalk, , RosettaNet, OAG, and other XML business standards bodies
- 903 ◆ A common ebXML technical specification template to be utilized by each of the
904 project teams in developing their technical specifications
- 905 ◆ The appropriateness of moving ebXML technical specifications to recognized
906 international standards under the cognizance of an international standards body
- 907 ◆ The single body that is responsible for long term maintenance of the ebXML
908 technical specifications, repository, and supporting mechanisms - OASIS,
909 UN/CEFACT, or ebXML
- 910 ◆ The process for long term maintenance of the ebXML technical specifications
- 911 ◆ ebXML funding methodology
- 912 ◆ The need for and definition of measures of success

913 **8.1 Executive Committee Support**

914 To help meet the requirements identified above, the executive committee has established
915 three executive committee support teams. The requirements for these support teams are
916 contained in the following subsections.

917 **8.1.1 Quality Review**

918 The *Quality Review Support Team* shall review all candidate technical specifications
919 prior to each public review period and final vote and shall identify via clear, concise
920 written documentation:

- 921 ◆ Deviations from the overall requirements specifications
- 922 ◆ Deviations from the ebXML traceability matrix
- 923 ◆ Completeness
- 924 ◆ Technical consistency within the overall ebXML technical framework.
- 925 ◆ Proposed solutions to identified problems or gaps where deemed appropriate by the
926 QR team

927 **8.1.2 Marketing Awareness**

928 The true measure of success for ebXML will be in its adoption by the business
929 community. To help facilitate that adoption, the *Marketing Awareness Support Team*
930 shall

- 931 ◆ Create an ebXML awareness program
- 932 ◆ Define general ebXML web site content and management approaches
- 933 ◆ Define allowable content of ebXML Project Team public pages
- 934 ◆ Define and execute ebXML marketing communications
- 935 ◆ Promote and support regional ebXML promotion efforts

- 936 **8.1.3 Project Management**
- 937 The *Project Management Support Team* shall:
- 938 ◆ Capture the deliverables from the project teams

- 939 ◆ Use the deliverable information to create and maintain a project plan that identifies
940 the critical milestones and deliverables of the ebXML initiative

- 941 ◆ Facilitate visibility to all ebXML project teams of the relationships between the
942 critical ebXML deliverables

- 943 ◆ Provide risk assessment analysis for the Executive Committee on any critical area
944 that may impact meeting the ebXML timeline

- 945
- 946

946

947 **9 ebXML Project Team Deliverables**

948 This section identifies the major specifications that shall be delivered by each of the
949 ebXML project teams. It also describes in general terms the expected nature of the
950 various ebXML project team deliverables to guide each team in developing those
951 deliverables and ensure a single consistent approach.
952

953 **9.1 Major ebXML Technical Specifications**

954 The major ebXML technical specifications to be delivered consist of the:
955

- 956 ◆ Technical Architecture Specification - contains an overview of the technical
957 infrastructure that comprises ebXML and itemize the design rules and guidelines
- 958 ◆ Repository and Registry Specification - includes functional specification and
959 technical design, interfaces, services
- 960 ◆ Transport, Routing and Packaging Specification - addresses transport of ebXML
961 messages, the means of security employed, and the physical construction of the
962 messaging used within the scope of the ebXML system. Specific deliverables shall
963 include -
 - 964 ↗ message structure specification
 - 965 ↗ message header specification
 - 966 ↗ a textual API example
 - 967 ↗ choreographic of messages
 - 968 ↗ security specification
- 969 ◆ Business Process Modeling Specification - the business process metamodel and
970 the recommended methodology for using it
- 971 ◆ Core Components Specification - The set of ebXML core components and the
972 prescribed methodology for deriving them
- 973 ◆ Trading Partner Specification - A collaboration profile template that supports
974 manual and electronic discovery and agreement

975 To assist in visualizing the above Figure 5-1 is a conceptual model of overall ebXML
976 stack interactions.

977

978 ebXML Requirements Specification

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978 **Figure 5-1. ebXML Stack Interactions**
 979
 980

Business Applications and Delivery Systems (external to ebXML)
Business Process Methodology
Core Components
Registry and Repository
Collaboration Protocol Profile and Agreement
Transport/Routing and Packaging
Technical Architecture
Technology Base (external to ebXML)

981

Executive Committee
Steering Committee
Proof of Concept
Quality Review
Requirements
Project Management
Marketing Awareness

982
 983

984 **9.2 High Level Deliverables Descriptions**

985 The following high level deliverables descriptions are intended to facilitate the efforts of
 986 the *Technical Coordination and Support Project Team* in ensuring consistency in the
 987 output of the various functional project teams. These high-level deliverables descriptions
 988 are identified in Figure 5-2.

989

990 **Figure 5-2. ebXML Project Team Deliverable Content**
 991

FOCUS AREA	WHAT IT DOES	HOW IT'S USED
Project Team Business Requirement What is the contribution of the group to ebXML?	Picture Model of the Project Team Deliverables	Business Method - How the deliverables will be used

992

993 To ensure consistency across all deliverables, each project team shall use the ebXML
994 technical specification template developed by the Executive Committee. Further, each
995 project team shall submit, for Steering Committee approval, a list of all proposed
996 deliverables. That list, once approved by the Steering Committee, shall be included as
997 part of this document.
998

999 **10 Disclaimer**

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1004

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1030

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