

UN/CEFACT
 STANDARD BUSINESS DOCUMENT HEADER
 Technical Specification
 Version 1.3
 2004-6-09

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96 1 STATUS OF THIS DOCUMENT

- 97 This Technical Specification is being developed in accordance with the
- 98 UN/CEFACT/TRADE/22 Open Development Process for Technical
- 99 Specifications. The Standard Business Document Header specification is a result
- 100 of a work project of the UN/CEFACT Applied Technology Group (ATG). This
- 101 specification will be supported by the two working groups within ATG, ATG1
- 102 (EDIFACT Syntax Structures) and ATG2 (XML Assembly Documents/Production
- 103 Rules). The Standard Business Document Header (SBDH) [also known as
- 104 Generic Header] Project Team has approved it for UN/CEFACT review.
- 105 This document contains information to guide in the interpretation or 106 implementation of the specification.
- 107 This version: is Standard Business Document Header Technical Specification,108 Version 1.3 of 2004-06-09.
- 109 Previous versions: Standard Business Document Header Technical
- 110 Specification, Draft Version 1.2 of 2004-03-10.
- 111

112 1.1 Disclaimer

- 113 The views and specification expressed in this document are those of the authors
- and are not necessarily those of their employers. The authors and their
- 115 employers specifically disclaim responsibility for any problems arising from
- 116 correct or incorrect implementation or use of this technical specification.

117 **1.2 Contact Information**

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121 **2 INTRODUCTION**

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123 2.1 Summary

124 This specification defines the 'Standard Business Document Header' (SBDH) 125 which will enable integration of documents between internal applications, 126 enterprise applications, and business-to-business infrastructure by providing a 127 consistent interface between applications. The standard header information will 128 enable any application to determine the logical routing requirements and/or the 129 logical processing requirements of a document based on information contained in 130 the standard header. This can be accomplished with the use of key data 131 elements including logical sender and recipient identifiers, a 'business document 132 type', and other elements associated with a Standard Business Document (see 133 Glossary) object.

134

Standard Business Documents (SBD) are used in supply chain, financial, and other processes to record and share data such as purchase orders, invoices, or item synchronizations. These business documents are typically created in one application and processed by one or more receiving applications, either within a single organization or an external organization (Trading Partner). A number of different proprietary approaches have been developed to route and process these documents.

142

The SBDH includes a set of standard elements necessary to determine the
routing and processing of documents either as a header within, or linked with the
document. The standard header can also optionally provide service and
correlation information, at the business domain level, between trading partners.
The standard header can provide the semantic information needed for the
routing, processing and business domain context of documents, regardless of the
data format of the document – XML or EDI or other format.

151 2.2 What is a Standard Business Document Header?

152

153 The SBDH contains information expressed in an XML format. The header 154 provides information about the routing and processing of the Standard Business

- 155 Document, whether the document is in an XML or EDI or other format. The
- 156 SBDH is designed to be either an integral part of a Standard Business Document
- 157 (e.g. either XML instance document or EDI interchange), or an object associated
- 158 with the Standard Business Document itself.
- 159

160 2.3 How is it used in EDI and XML environments?

The UN/CEFACT Architecture supports both the EDI and XML communities. The Standard Business Document Header architecture will therefore support both EDI and XML e-business processes. Including a SBDH in (or with) each XML instance document, or with each EDI interchange reduces the effort needed to route and process documents and permits trading partner organizations to use different implementation approaches.

168

When implementing EDI, the provision of an additional standard header may not always be necessary, since EDI interchanges already contain functionality for some of the information in the SBDH. An example is the EDIFACT UNB interchange header, the UNH message header, and the 'function' part of the BGM. The SBDH specification will allow for this existing approach and provides an option to express additional functionality, such as service and correlation information.

176

Trust relationships among business applications and middleware applications
providing services for those business applications are admittedly complex. For
example, middleware communications software components may provide and
enforce cryptographic properties such as data confidentiality and digital
signatures, and are often implicitly delegated authorizing functions both for

- authentication (by signing or other means) or for access control (submission of
 business documents for further processing).
- 184

There are no additional security risks imposed by the use of a SBDH over those imposed by current middleware implicit delegation arrangements. The relationships between back end systems and middleware components are extremely diverse and heterogeneous. In such a situation, it is sufficient to allow the SBDH to work in two modes: no application level security and some application level security. In either case, the SBDH techniques can be made to work securely.

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193 **2.4 The Scope of the Standard Business Document Header**

194

Many users, implementers and supporting industry standard bodies are in
agreement on the need for a Standard Business Document Header. In their
business-to-business activities, the SBDH will facilitate three business needs:

198

The routing of business documents from one point to another. This refers not only to the transfer of information from an external originator to receiver, but also from one intermediate application to another.
 Information in the SBDH can help ensure that a document gets to the correct recipient.

- The simplified processing of documents. Processing refers to taking action on data, for example transforming it from one format into another.
 Information in the SBDH can reduce the effort required to determine the correct processing actions.
- Associating a data message with its originator is important from a business and legal perspective. It is especially important when using intermediaries for data transfer, as information from the transport protocol, may be lost after the initial transmission. Because information in the SBDH is retained, it can help ensure that a document's originator is correctly identified.
- 214

215 In addition to header functions provided by the SBDH for routing and/or 216 processing of business documents, there is the need for a completely separate 217 technical communications transport layer header which is defined by Business 218 Collaboration Framework UN/CEFACT Modelling Methodology (BCF/UMM) as a 219 message envelope. This technical communications layer header deals with 220 communications protocols and physical addresses which are outside the scope 221 of this technical specification. Transport specifications including EDIINT-AS2 and 222 ebXML Message Service (ebMS) are among a number of possible transport 223 options that address technical communications needs by defining a separate 224 technical header. Transport layer headers are completely outside the scope and 225 are a separate concern not addressed here (because they are in a different layer 226 of the stack).

227

228 The SBDH is useful at the business application and middleware levels to provide 229 for the routing and identifying of business documents. The information placed in 230 the SBDH at the business payload level, will travel with the business information 231 to many different workflows. In addition to the business payload information, it 232 may be useful to the business application and middleware to know the original 233 creator and intended receiver of the document. For the more complex creator 234 and receiver business environments, there is a business need to use the SBDH 235 for internal routing. The SBDH can enable this internal routing, eliminating the 236 need to deeply parse and process an entire business document.

237

Within a legal context the terms 'Dispatch' and 'Reach' are commonly used to
indicate when a data message leaves control of the originator and enters control
of the recipient respectively. From a legal standpoint, these terms could replace
the terms 'Send' and 'Receive' in some sections of this specification. These
terms carry well defined semantics which are independent of any specific
modelling methodology and technology. See UNCITRAL Model Law on
Electronic Commerce < http://www.uncitral.org/english/texts/electcom/ml-

245 <u>ecomm.htm</u> >.

246 2.4.1 What Makes the Standard Business Document Header Useful?

The main purpose of the Standard Business Document Header is to bridge the gap for standards, such as the UN/CEFACT EDI standard, that do not have the functionality of ebXML standards to perform a complete collaboration framework. It gives other technical frameworks and other standards an ability to simply use the payload in a collaborative exchange. These other standards and frameworks do not easily allow a user to accomplish this collaborative exchange without utilizing the attributes of the SBDH.

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256 The BCF/UMM header of a business document provides information related to 257 address, security and signatures as may be required by the associated Business 258 Transaction' (please refer to BCF/UMM Business Transactions View (BTV)). 259 Although according to BCF/UMM, some kind of document header is mandatory. 260 the use of the Standard Business Document Header is not a replacement for the 261 technical communications header nor is it mandatory. It is rather a useful 262 business level header, which may be used optionally. As such we have identified 263 three use case scenarios, which warrant the existence of the SBDH information 264 as a separate header for business information. The three use cases are:

- 1. XML data in a non-ebXML environment; using middleware translation and transport
- 2. XML data in an ebXML environment, showing the Business Service Interface (BSI)
- 3. EDI payload in an ebXML environment with the SBDH (XML) header .

271 272 2.4.1.1 Legal Aspects of Electronic Data Exchange 273

A key use case for the SBDH is one where it may be used in a legal aspect to carry legal provisions and contract terms. UMM, ebXML and other collaboration frameworks provide only limited capabilities to associate the exchange of electronic information with legal provisions and contracts. A good example of this is an exchange of a "Price List" that may be accompanied by usage and confidentiality terms & conditions.

281 Associating messages with terms & conditions and legal documents is an 282 important requirement and the SBDH may be useful in this role. The Unified 283 Business Agreements and Contracts (UBAC) project is investigating the 284 possibilities of adding an additional Business Scope in order to facilitate 285 association between data messages and legal provisions. (See also section 286 on Business Scopes in this document.) Likely candidates for this projected 287 Agreement Scope are contract terms, signature reference and intent 288 expression.

289

290 **2.5 Business Opportunity and Benefits of the Standard Header**

- Although routing and processing instructions are not necessarily an integral part of a
- document, use of the Standard Business Document Header will allow organizations,
- with applications which are not yet fully process-centric, to take part in the process-
- 294 centric approach and avoid wasted effort in developing customized routing and 295 processing scenarios for each category of business data. Trading Partner
- organizations using different communication and integration approaches will find the
- 297 SBDH a benefit since the business data payload will contain the information needed
- by the communication software to route and process this data in a standard way.
- 299 Operational decisions can be made by accessing the information in the SBDH and 300 using that information to discover by which process context the business data should 301 be driven. Routing and processing of Standard Business Documents (SBD) is 302 facilitated regardless of whether all applications use a document driven, application 303 programming interface (API), or agent approach. The use of logical parameters in the 304 SBDH will minimize Trading Partner relationship management in both the Originating 305 and Receiving organizations since the physical parameters can be derived from the 306 values in the document.

307 **2.6 Stakeholders and Audience**

- All organizations that manage infrastructure operations and business processes for various functional areas (e.g. ordering, invoicing, planning, or financial) which create, route and process Standard Business Documents can benefit from the use of the Standard Business Document Header.
- 312

313 2.7 Document Conventions

The keywords MUST, MUST NOT, REQUIRED, SHALL, SHALL NOT, SHOULD, SHOULD NOT, RECOMMENDED, MAY and OPTIONAL, when they appear in this document, are to be interpreted as described in [RFC2119] as quoted here:

- MUST: This word, or the terms "REQUIRED" or "SHALL", means that the definition is an absolute requirement of the specification.
- MUST NOT: This phrase, or the phrase "SHALL NOT", means that the definition is an absolute prohibition of the specification.
- SHOULD: This word, or the adjective "RECOMMENDED", means that there may exist valid reasons in particular circumstances to ignore a particular item, but the full implications must be understood and carefully weighed before choosing a different course.
- SHOULD NOT: This phrase, or the phrase "NOT RECOMMENDED", means that there may exist valid reasons in particular circumstances when the particular behaviour is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behaviour described with this label.

330 MAY: This word, or the adjective "OPTIONAL", mean that an item is truly • 331 optional. One vendor may choose to include the item because a particular 332 marketplace requires it or because the vendor feels that it enhances the 333 product while another vendor may omit the same item. An implementation 334 which does not include a particular option MUST be prepared to 335 interoperate with another implementation which does include the option, 336 though perhaps with reduced functionality. In the same vein an 337 implementation which does include a particular option MUST be prepared 338 to interoperate with another implementation which does not include the option (except, of course, for the feature the option provides). 339

340

- 341 3 OBJECTIVES
- 342

343 3.1 Requirements

The objective of this specification is to define the attributes of a Standard Business Document Header. The SBDH will make it possible for originating and receiving applications to process Standard Business Documents in a way conformant to this specification. The objective of the SBDH specification is to facilitate the exchange of documents between applications in a standard way. This specification will:

- 350 Define SBDH semantics and associated values. 351 Capture the details in a UN/CEFACT Modelling Methodology (UMM) logical information model for the SBDH. 352 353 Assure the protocol independence of Message creation. ٠ 354 Define standard, data driven processing and routing parameters in the SBDH. • 355 Define the role of the Business Information in the semantics and syntax • 356 transformation process. 357 The SBDH is a realization of the UMM meta model, with an example in XML 358 syntax. 359
- 360 **3.1.1 Constraints on the Standard Business Document Header**
- When using the Standard Business Document Header, the following constraintsapply to the values provided in the header:
- Independence from proprietary routing rules.
- Location transparency in all except the ultimate partner facing functions
- Addressing transparency in all except the ultimate partner facing functions

- 366 All proprietary semantics, syntax, and formats must be transformed into 367 interoperable semantics and syntax.
- 368
- Protocol independence in all except the ultimate partner facing functions.
- 369

370 3.2 Principles of the Standard Business Document Header

- 371
- 372 The following table identifies the principles used to decide what kind of
- 373 information is stored in the Standard Business Document Header, and what is 374 not.
- 375

IN	OUT				
1. Information known at the time of creation of the Standard Business Document (SBD) by the Business Data Creator Application (BDCA) or Translator/Parser. e.g., Standard Business Document (SBD) Type.	 Information that can be known only at the time a message is sent. e.g., Transport Message Id. 				
2. Logical information that may be used to identify relevant physical information. e.g., partner name and role	2. Physical information useful for configuring the physical message transfer. e.g., channel information of partner such as protocol, port, etc. This physical information is to be extracted out of some profile, such as an OASIS CPP/A using the logical information provided.				
3. Logical Information that may be used to route the document to specific external applications or services.	3. Physical Information identifying an external application such as its URL.				
4. Logical Information that may be used to identify specific internal applications or services from where the document originated.	4. Physical Information identifying a specific internal application such as its IP address.				
Table 1					
In and Out Principles of the SBDH					

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In and Out Principles of the SBDH

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379 3.3 Layered Processing Model

380 The layered processing model shows how the Standard Business Document 381 Header may be populated, extracted and processed.



383

Figure 1

384

An interesting Standard Business Document Header element to consider is
"Time Created" – each of the layers would have their own such element; for
example, "Document CreationDateTime", "Message CreationDateTime",
"Transport InitiationTime". The Document processor at the receiving end needs
to worry or care about only the Document creation time, and not others.
However, for auditing purposes, the other information may need to be logged, but
such processing is outside the scope of SBDH.

393 **3.4 Services**

394

This section describes the use of the term "service" in the SBDH, Web Services, and UMM Business Collaboration Framework BTV and BSV terminology from UN/CEFACT. In the use of the SBDH, it is important to understand that the services defined by the service information object, are different from the services defined in ebXML and in web services. It is also important to understand that these terms are related and that the user must ensure that the services at each layer can map from one to the other.

402

403 EbXML Messaging Service (ebMS) and Web Services Description Language

- 404 (WSDL) both use the term "service," but in slightly different ways. Here is a guide
- 405 to navigating the terminological differences.

A WSDL file contains definitions and a wsdl:service is one element that can be
defined. Within WSDL version 1.2, the decision has been made to have each
service refer to only one wsdl:interface (formerly known as "portType"), and each
wsdl:interface can aggregate one or more operations.

411

ebMS does not itself define "service," and allows for bilaterally agreed upon
values for both service and its action components. However, when ebMS is used
with the UN/CEFACT Business Process Specification Schema (BPSS) and
OASIS CPP/A, then the values for "service" and "action" derive from values in the
BPSS instance. Basically, the service value indicates the entire package of
Business Processes described in a BPSS instance document. Action values
identify particular requests or responses within the Business Process.

419

So in both WSDL and ebMS, "service" is a kind of package of functionality, which
can be defined by standards organizations or by members of a collaboration
community. For ebMS, the package is of business processes, consisting of
"actions". For WSDL, the package is of elements, each called an "operation."
Operations bundle input, output, and fault definitions. Each input, output and fault
at present gets associated with a "message" (and ultimately a schema defined
type).

427

However, the ebMS action cannot be simply equated with an operation, because
each business level action at present pertains to what is in WSDL either an input
or an output. So, when an interface (formerly called "portType") has both an input
and an output operation, one interface name in WSDL can pertain to what will
have two action names in ebMS, the action request and action response. Despite
this one terminological asymmetry, ebMS actions and WSDL operations are very
similar.

435

436 In the Standard Business Document Header, "service" is a kind of package of 437 functionality, which is defined by standards organizations or by members of a 438 collaboration community. It describes the business information in logical terms (it 439 is similar to a requesting or responding business activity in BPSS or a group of 440 operations in WSDL). However, it is not the same, because the SBDH provides a 441 "syntax neutral" approach to facilitating the integration of the file systems of those 442 users who need to preserve their current backend applications as they reformat 443 their data into an XML format for transmitting it to their partners.

444

445 3.5 Routing

446

447 This section describes the use of the term routing at the technical messaging

448 service level and at the Standard Business Document Header level, since the

term is used differently in both of these aspects. At the business domain level,

which is the routing performed by the SBDH, routing describes the flow of a
business document being transferred from one originating partner to another
receiving partner.

453

At the lower level, the technical messaging service uses predefined transfer
mechanisms such as HTTP to move the data across the Internet. At the network
protocol level, individual packets are transferred from one router to another
across the Internet network.

458

Because there are two kinds of routing - technical and business – it is useful to
separate the headers into technical and business headers. The Standard
Business Document Header handles business application level routing and
specifying of business documents. The BCF/UMM which allows two business
applications to have a virtual conversation, is another way of addressing this
business need.

465

Standard Business Document Header routing does not refer to the lower levels ofrouting as they are transparent to the SBDH. However, the routing fields in the

468 SBDH are capable of being mapped to the technical headers so that the

document can be transmitted successfully to the partner. For instance, the

- 470 routing information in the SBDH contains information for Sender and Receiver in
- 471 a shared, well-known format, such as, a Global Location Number (GLN) or Dun &
- 472 Bradstreet's Data Universal Numbering System (DUNS) number. This
- information can be mapped to different technical transport header fields. These
 technical headers use MIME in the case of AS2, or messaging service headers in
- 474 the case of ebXML Message Service (ebMS).

476 **3.6 Packaging**

477

Since the Standard Business Document Header information is added to the
business content that has been originally included in the business document, it is
integral to the business document itself. It can be packaged as a part of the SBD,
or for example as a separate MIME part.

482

There are varied reasons why the implementer would choose an integrated
packaging approach or a non-integrated approach. The following arguments
favour the integrated approach:

- If the SBDH is an integral part of the XML instance document, the
 document can be parsed at a high level and routing and processing
 decisions can easily be made.
- In older systems, if the SBDH is contained in a separate MIME body part,
 once the message is received by the Communications application, the
 linkage between the two MIME body parts can be lost and the
 routing/processing functionality becomes more complex.
- 493

494 The next arguments favour a non-integrated (e.g. a separate MIME parts)
495 approach:
496 If the packaging is not integrated then the SBD can be easily encrypted
497 separately from the SBDH, and the information in the SBDH can be more

readily available to applications.

• Modern middleware can handle the linking between separate MIME parts.

5013.6.1Access to the Standard Business Document Header Information502when the Payload is Encrypted

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500

504 When using the integrated approach, once the message is inside one of the 505 partner's firewalls, the issue of application layer security and confidentiality may 506 arise under certain, special cases. This added concern over security and 507 confidentiality may be an issue on the entire Standard Business Document 508 Header and payload block or on some of the tags in the SBDH or payload. 509 Specifically identifiers or keys or financial information are examples that may require additional security and confidentiality. The requirement may be that only 510 511 certain authorized individuals have the permission to view the contents. 512

513 For instance, a security requirement may be that the middleware environment 514 administrators should not have visibility to the payload, which could contain 515 sensitive trading partner data. In this requirement, only the receiving application 516 would be able to decrypt the data, potentially long after the data transport 517 process has ended. Some protocols may require the payload to be encrypted by 518 the sender, prior to transport, and to remain encrypted once received. If the 519 SBDH was received encrypted along with the payload, that would prevent further 520 routing from occurring. In these situations, requiring strict security and 521 confidentiality within the firewalls, there are two recommendations. 522

- 523 The first is to utilize selective encryption. Selective encryption is an XML 524 encryption option, which is available using the XML Encryption specification. 525
- When using the older protocols, such as PKCS7, it will be more difficult to use selective encryption. An alternative recommendation is that the SBDH is either not encrypted or decrypted upon receipt. In the case where the payload needs to be encrypted, there are two alternatives to handle this:
- 530 531

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533 534

- a) The first alternative is to send the SBDH and the attached, encrypted payload in the manifest block. Both objects are contained in one MIME part in one message.
 - b) The second alternative is to send the encrypted payload as a separate MIME part. This option allows multiple recipients to read the SBDH, while ensuring that only select recipients may read the sensitive contents in the payload.
- 536 537

538 The manifest attachment is also the recommended way of sending a non-XML 539 document or file. For example, an EDI document, with an SBDH should be sent 540 as a manifest attachment. In this case, the non-XML payload can be encrypted 541 and sent as the attachment, allowing the SBDH to be transported and received 542 not encrypted or to be decrypted without impact to the rest of the payload.

543 544

4 MULTIPLE PARTNER ENVIRONMENT

545

546 The Standard Business Document Header could be used in the scenarios where 547 a SBD has to be sent to multiple partners or information related to a SBD needs 548 to be collected from multiple partners. In that case the logical Receiver value 549 could represent a 'distribution list', and the sending Communications application 550 could send the SBD to multiple receivers.

551

552 The SBDH presupposes a point-to-point (sender-receiver) model. Effectively this 553 infers that any hub-spoke or multi-party scenario will be broken down into 554 collaborations between two partners. If it is extended to support an n-1 (hub-555 spokes) model, where n roles are interacting on a "business document" to do 556 end-to-end processing, say order-to-cash, in a 'multi-hop' situation where the 557 'middleman' strictly performs a store and forward function without changing the 558 SBD contents, the business document creating application should be insensitive 559 to the presence of the middleman. If the SBD is altered by an intermediate role 560 player, the logical Recipient should be that role player, not a subsequent 561 recipient.

562

In a store and forward 'multi-hop' situation, legally relevant items such as the originator of a data message for example, may need to be retained with the identifying sender or receiver. The use of different types of technologies for example, the actions of an encryption service provider who unwraps and decrypts the message then re-encrypts it, may not preserve legally needed information that is needed when the payload arrives at the intended addressee. But by using the SBDH, the information is still preserved.

571 5 PROCESSING FLOW OVERVIEW

572



- 574 The figure and descriptions in this section are for illustrative purposes only, and
- are not normative. The various components depicted in Figure 2 are as follows:

576 Applications A – G:

577 Represent various applications in a data flow which move Business Documents (BD) 578 from a Sender's back office application which creates data, to a Receiver's back 579 office application which processes data.

580 Data Stores 1–6:

581 Represent various data storage locations indicating the format of data after it has 582 been processed by one of the applications.

583 Application A:

Represents a 'Business Data Creator' application (e.g. a legacy or ERP
application) which creates business transactions for functional processes such as
ordering, invoicing, planning, etc. either in:

- a) Internal 'Business Document' (BD) format (shown in data store 1) e.g. a
 proprietary flat file which needs to be transformed into a SBD or,
- b) If the creator application is fully XML or EDI capable, directly creates
 transactions in SBD format, including the standard header (shown in data
 store 2), and therefore bypasses Application B.

592 Data Store 1:

Represents one internally formatted BD which may contain one or more
individual transactions of a single (or multiple closely related) business document
type(s) such as purchase order, INVOIC/TAXCON, or shipment request, etc.

596 Application B:

Represents a 'Parser/Translator' application that transforms a Business Document
from its internal private format to an external Standard Business Document (SBD)
format [shown in data store 2]. The SBD includes the Standard Business Document
Header (SBDH). The SBDH provides logical information such as Sender, Receiver,
Document Type, and optionally information such as business process identification.

- 602 Parser/Translator functions include optional parsing and transforming of Business
- 603 Documents into standard semantics and syntax (i.e. a SBD). For example, a
- 604 customer number is transformed into a Standard Partner Number, an internal stock
- keeping unit code is transformed into a Product Identification Number, and the
- 606 structure is transformed from a proprietary flat file format into a standard format.
- 607 The transformation steps are optional. Not all Business Documents are created 608 with proprietary semantics and syntax. Business Documents that are created in
- 609 standard semantics or syntax will require fewer or no transformation steps.

610 Data Store 2:

- 611 Represents one externally formatted SBD, e.g. one XML instance document or
- one EDI interchange which includes the Standard Business Document Header.

613 **Application C**:

614 Represents a **Communications Application** that transmits the SBD from the 615 Sender to the Receiver. The Communications Application can use logical 616 information in the Standard Header to:

- a) Determine the actual physical destination (i.e. where to route the SBD sothat it gets to the Receiver, and
- b) Determine the appropriate transport protocol, (e.g. ebXML MS, EDIINT AS1/-AS2, SOAP, X.400, or a proprietary VAN protocol), managing the
 associated message creation, and protocol-specific envelope packaging.
- Independence of transport protocol is provided by the syntax and protocol neutral
 Standard Business Document Header. Mapping of the SBDH logical values to the
 physical location and addressing parameters is handled by the Communications
 Application.
- A Communication objective for the SBDH is to eliminate different proprietary
- 627 approaches for determining transport protocol and destination. Providing a standard

628 process will minimize the administration of Trading Partner relationships in the

629 Communications Application by defining logical parameters in the SBDH.

630 Data Store 3:

Represents one transport message (as it is sent from Sender to Receiver) whichcontains the SBD plus the protocol specific envelope packaging.

633 Data Store 4:

634 Represents the same transport message (as it is accepted by the Receiver from the 635 Sender.)

636 **Application D**:

- 637 Represents a Communications Application that receives the transport message,
- removes the protocol specific envelope packaging, and retrieves the SBD. The
- 639 Communications Application can use information in the SBDH to determine further 640 processing requirements.

641 **Data Store 5**:

642 Represents one externally formatted SBD, including the SBDH.

643 **Application E**:

- 644 Represents an optional routing and/or middleware application that uses the
- 645 SBDH to determine which of several potential translator/parsers or back end
- 646 applications to invoke or where to route the SBD. The application could also use
- the SBDH to determine Business Scope information such as Service Information
- 648 and Correlation Information.

649 **Application F**:

- 650 Represents a 'Parser/Translator' application that transforms data from the external
- 651 SBD format into a proprietary internal format. The 'Parser/Translator' can use

information in the SBDH to determine how to transform the SBD (i.e. which 'map'to invoke).

654 **Data Store 6:**

655 Represents one internally formatted 'Business Document' (BD) which may

- 656 contain one or more individual transactions of a single (or multiple closely
- 657 related) business document types(s) such as purchase order, INVOIC/TÁXCON,
- 658 or shipment request, etc.

659 **Application G**:

Represents a 'Business Data Processor' application (e.g. a legacy or ERP
application) that receives data either in a Business Document, XML, or EDI format
and processes business transactions.

663

664 6 Use Case Analysis

665

The Standard Business Document Header is compliant to and defined by using
modelling elements of the UMM-Metamodel. The UMM is part of the Business
Collaboration Framework (BCF). Figure 3, below, describes the scenario that the
SBDH solution addresses. Basically, two partners engage in a UMM compliant
business transaction that mandates the mutual exchange of one or more
business messages. These messages, in turn, must be processed for relevant
business data.

673



675

674

Figure 3

The use case diagram in Figure 3 illustrates the case where the Sender processes business messages, but note the receiver could follow the same 678 process being outlined. The remainder of this technical specification document

679 will focus on the analysis of the Sender's domain (composed of three services: a

680 Business Data Creator service, a Parser/Translator service and a transport or

681 Communications Service); and then on the analysis of the Receiver's domain

682 (composed of three services: a Communications Service, a Parser/Translator683 service and a Business Data Processor application).

684 6.1 Business Services

The specific services addressed by the UN/CEFACT ATG SBDH Data workflow
are shown in Figure 4 below. To summarize, a Business Data Creator Service
will create a Business Document, a Parser/Translator service will transform the
Business Document into a SBD format, and a Communications Service will send
the SBD to the Receiver.



692

691

690

Figure 4

693

694 6.2 Description

Business Documents and their matching header data are created from data
residing in the private space of the sender. Therefore, the BDs may be created
using private semantics and syntax to describe and format the business data. The
BDs can be used for purposes such as creating a purchase order, or an invoice,
or some other purpose.

700 BDs can be created using:

- legacy semantics
- 702 legacy syntax
- standard semantics
- standard syntax, or
- some combination of the above.
- The BD values will be derived from key semantics. The key semantic values mustpossess the intelligence required to:
- Ultimately derive the information for routing and processing the SBD.
- Map the BD logical values to the physical location and addressing parameters
 required by the Communications Services.
- Identify the appropriate Parser/Translator for this Business Document.
 Several parser/translators may exist depending upon the semantic and syntactical requirements of the BD. "Data-dependent routing" intelligence must be contained in the key values.

715 6.3 Workflow Analysis

There are two basic workflows for the ATG SBDH solution, each addressing a
different, but complimentary, implicit UMM business function: originating and
receiving business data. Figure 5, below, illustrates the prescribed ATG SBDH
workflow for exchanging business data.



721



First, a Business Document and its matching header are created from information residing in the private space of the sender (for example, one or more internal business services). This data might be compliant (semantically and syntactically) to some standard; otherwise it must undergo a data transformation process. Note that the data and its corresponding header may initially contain the information elements and semantics mandated by the ATG SBDH solution;

728 otherwise the data transformation service will ensure that such elements are

- 729 created. Finally, a communications service constructs a business message using
- the SBD with its SBDH. This message is sent to a peer through a predefinedtransport protocol.
- The other workflow delineated by the ATG SBDH solution is shown in Figure 6 and illustrates the process of receiving a business message.



735

Figure 6

736 It is assumed that the message received by the Communications Service

contains the key data elements and semantics mandated by the ATG SBDH

solution. Key elements associated with information routing are then identified.

The message may be sent to a parser/translator service or directly to a Business
 Data Processor service for processing and storage. If data transformation occurs,

741 certain ATG SBDH elements will facilitate the process.

742

743 7 HIGH LEVEL SCENARIO

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749 750

751

Assumption: In order to facilitate the exchange of business information in an
electronic commerce environment, the specification addresses all the data flow in
the message creation and processing:

- 1. the creation of the content
- 2. the transformation of the content into standard form
- 3. the packaging of the content into a message
- 4. the transfer of the message

- 5. the receipt of the message
- 753 6. the processing of the message
- 754 7. the storing of the message.
- 755 The high level scenario:
- A BD is transformed and standardized into a SBD, e.g. standard EDI or XML
 with standard semantics. Logical SBDH elements are populated with standard
 semantic values.

7592. The SBDH values are used to look up Message Envelope values to send the760 SBD using the appropriate transport protocol.

- 761 3. The SBD is received by receiver.
- 762
 4. The SBD is transformed from standard EDI or XML and standard semantics
 763 to a proprietary BD format. Standard semantic values in the SBD are
 764 populated with Logical BD proprietary values.
- A Response is sent by the receiver to indicate receipt of a SBD or a rejection indicates an exception has occurred with the sent SBD or the SBD has been rejected by the receiver. Response must indicate acceptance or rejection of the SBD.

769

770 **8 PATTERNS**

771

The UMM contains a series of message exchange patterns that rely on the
concepts of Services and Agents, where a UMM Service exchanges a SBD, via
messages, to another peer Service on behalf of an Agent.





779 In the scenario depicted in Figure 7 the Services exchange business messages 780 which comply with some standard. A secondary role of a Service can be to 781 communicate the SBD contained within standard business messages to a 782 corresponding Agent in some proprietary manner. In an e-Business enterprise an 783 Agent could represent some legacy business application while a Service could 784 be an interface to that legacy application that communicates to other enterprises 785 in some standard fashion. The SBDH may be used to place a business 786 document in the proper context for the UMM/Business Collaboration Framework 787 service layer and transaction layer.

788

789 The ATG SBDH constructs a possible solution for a scenario that represents the 790 UMM Service/Agent interaction patterns. It defines a generic workflow for the 791 internal communication process between Service and Agent. 792

- 793 9 Business Scope
- 794

795 The business environment, circumstances, or scenario, in which trading partners 796 conduct business is described by a set of domain context identifiers. This 797 specification captures the information in the Business Scope block. The Business 798 Scope specification being developed by the UN/CEFACT Techniques and 799 Methodologies Group (TMG) Unified Business Agreements and Contracts 800 (UBAC) team. Business process information is one of the characterizations of 801 scope about messages exchanged in a business collaboration. However, there 802 are other relevant characterizations of scopes and contexts as well. For example, 803 it is relevant to know which business domain the collaboration of executing 804 messages is associated with. Scope constraints clearly identify the business 805 domain within which the transaction is executing, providing a basis for 806 determining which rules are applicable to the transaction. The Business Scope* 807 block in the SBDH provides the ability to associate a header and document with 808 the proper business domain and thus constrain or extend its associated 809 behaviour. (*See Appendix C for the theory behind the Business Scope.) 810

811 Scopes describe the environment within which transactions execute and allow a 812 system to choose the correct environment. For example: 813

- Europe versus Asia.
- Direct-to-Consumer versus Replenishment, or
- Pre-Paid versus Credit.
- 815 816

814

817 Most systems, particularly legacy systems, have business domain rules coded into the application. By providing a Business Scope block in the SBDH, this 818 819 information is forced up front so that all types of systems – no matter whether 820 they are a Data Creator, a Parser/Translator or Communications Software – may 821 select the rules correctly. The rules are selected depending on the scope 822 received in the SBDH matched to the business domain selections within the 823 implemented systems. When the system to be used to execute these 824 transactions is being implemented, the implementer will write code against the

825 Business Scope and will have a very clear knowledge of which code needs to be 826 triggered for execution of a specific domain rule.

827

842

843

828 The Business Scope in SBDH carries the information needed so that partners 829 can identify and know which business rules to apply. There is a benefit to declare 830 this information up front in the SBDH - partners can apply the rules even if the 831 payload is encrypted. Knowing which of the domains the message is associated 832 with allows business partners to make coordinated decisions for each context or 833 business scope. For example, partners may agree that a transaction conducted 834 with small businesses may require a credit card instead of a purchase order. 835 The scope of that requirement constrains the business domain to be "small 836 business". Various scopes may select rules independently. For example, in 837 addition to the "small business" scope, the partners may have an electronic 838 collaboration mechanism in the form of an existing Trading Partner Agreement 839 (TPA). The TPA identifies behaviour that is executed depending on the 840 transaction exchange within the TPA domain. In the example, then, there are two 841 scopes that are useful to identify the business domain of the collaboration:

- the small business domain and
- the domain of the pre-established TPA.

844 9.1 Technical Agreements and Business Agreements

845 Although partners may agree on technical agreements and pre-establish these 846 agreements in a set-up step of the process, when it comes to business 847 agreements, the partners' behaviour during the collaboration runtime may vary 848 depending on the business context being applied. This is the benefit of providing 849 a Business Scope block in the SBDH. The required business behaviour for an 850 exchange of messages is explicitly named in the Business Scope block. The 851 business behaviour or relationship will vary in the instance of the transaction or 852 collaboration. The same two partners, who submit replenishment purchase order 853 collaborations, may exhibit similar technical behaviour but different business 854 behaviour with each other when the purchase order is Direct-to-Consumer. The 855 business behaviour is constrained by execution of a replenishment process or 856 direct-to-consumer process. Which business process is executing determines the 857 scope that is associated with the business behaviour. Being able to identify 858 business behaviour with respect to active scope allows partners to clearly identify 859 expected business behaviour in multiple scenarios

860

861 During an exchange of data messages, a number of specifications and legal 862 provisions govern the exact interpretation and execution of 'Dispatch' and 863 'Reach'. Specifications and agreements on business and technical levels often 864 form a linked documentation set where various provisions are formulated in 865 different resources. The SBDH and BusinessScope provide the capabilities to 866 find the starting point for such dependent documents. However the current 867 version of SBDH supports only identification of such resources (node) and not 868 their relationships (edges). It was deemed that specification of relationships is an area that needed further consideration and elaboration. In future versions of theSBDH relationships between scopes may be defined.

871

872 Pre-determined technical agreements describe technical protocols that partners 873 will use when they conduct business electronically. In technical agreements, partners may decide upon using the OASIS CPP/A, a TPA, a RosettaNet PIP, or 874 an AS2 connection. For example, a RosettaNet PIP and a CPP/A URI are used 875 876 as two values in the filled out Business Scope block. This combination of PIP identification and CPA URI identifies the domain. This example is not 877 878 exclusionary. The UN/CEFACT architecture describes a stack – a technical 879 description at each layer of the stack. AS2 for example is at the bottom layer. 880 Technical and business agreements can be declared going up the stack from 881 AS2, following the UN/CEFACT architecture.

882

883 The CPP/A will have elements that govern both. It contains an SLA used by 884 ebusiness software to monitor whether a response came back in time. The 885 RosettaNet PIP provides a set of possible values, for example, for an order type, 886 and the translation software would use that. The PIP will translate relationship 887 attributes based upon "roles". In a system, every user has rights based upon their 888 role. Access management software has information on the role the user is 889 playing in the current domain. This could be, for example, Read, Write, or No 890 Access to data. The combination of values in the PIP and the CPP/A will provide 891 information to all three services in the SBDH: the Data Creator, the 892 Parser/Translator and the Communications Software.

893

894 It would be unrealistic to expect to renegotiate the technical agreement each time 895 the business environment changes in some similar manner. The overhead of 896 setting up numerous bindings and renegotiations to accommodate varied 897 business perspectives would be prohibitive to the partners. Consider the case 898 where a technical agreement is pre-arranged - in an existing TPA the business 899 objective is to make deliveries from one partner to another partner's set of 900 factories. In one particular exchange between the partners, the delivery must be 901 made to one and only one specific factory. This specific business behaviour 902 would be accommodated using the Business Scope and the existing TPA. 903

904 Behaviour is described by the business agreement, and then coded into the 905 respective systems. By directly associating behaviour with scope, and then 906 clearly identifying scope in the exchange, an agreed behaviour can be effectively 907 triggered, monitored and enforced by the partners. They agree that when a 908 particular value is detected in the business scope, the agreed upon business 909 behaviour is exhibited. This behaviour is implemented in a variety of ways in the 910 applications. The Business Scope class promotes this information up front in the 911 partner facing part of the transaction. Most importantly, the Business Scope block 912 makes the domain information available to both parties' systems in the same way 913 so that both of them can make use of the information. In this way, business 914 considerations drive the transaction via the SBDH.

916 In EDI, a relevant example is the Order type field in the BEG line. The Order type 917 is used to trigger different rules depending on whether the order type indicates 918 Replenishment or Direct-to-Consumer, for example. In this case the Order type is 919 constraining rules by inferring the transaction is within the scope of a process. 920 This inference can become problematic because the Order type by itself does not 921 fully define the process. There can in fact be several different processes required 922 to make that Order type correct. Therefore, to know the right set of rules to use, 923 additional information in the order is required. In this example, the order itself 924 contains the information:

- The Order type plus
 - Dates (and whether they are *n* weeks apart and)
- Whether the transaction is executing in one country, and so on.
- 927 928

925

926

In contrast, the Business scope is a clear and unambiguous holder to place that
information, give it a name, and present it up front so that more applications than
just the Business Creator applications can make use of it. In fact, all applications
participating in the SBDH scenario – the Business Creator, Parser/Translators,
and Communication Software Applications – can make use of the business
scope information.

935

The Business Scope block as defined in the SBDH is general because the ability
to identify domain associations changes over time. Rather than describing
discrete values such a process, industry, etc. the SBDH Business Scope actually
associates a message with its domain, execution environments and constraints.
The association is made with multiple domain values such as:

- The process the message is executing within;
- The industry constraining processor;
- And the geopolitical policies.
- 943 944

941

942

945 For this reason, the Scope block within the Business Scope is repeatable.

946 9.2 Future Business Scopes

947 The Business Scope block is used to describe the complete business 948 environment in which the SBDH and SBD will be processed. Standards bodies 949 addressing business concerns will come up with enumerations of supply chain 950 processes. The UN/CEFACT Technical Business Group (TBG) and Techniques 951 and Methodologies Group (TMG) Unified Business Agreements and Contracts 952 (UBAC) will be some of the entities that will define codes for the Business Scope. These will be used to fill out the SBDH Scope. The standards bodies will agree 953 954 on how processes can differ. They will define the different business behaviours 955 for each domain. The groups such as TBG will provide the content for the 956 repeatable vet unique Scope within the Business Scope. The instance of Scope 957 will be optional and used only if one or more such instances provide value to the 958 partners within the current domain they are executing in.

Apart from the Business Scope defined in this version of the SBDH specification,
there are other types of Scopes governing the exchange of words, messages,
documents and business information in general. Agreements and contracts give
legality to the information exchanges and form yet another type of Scope in
another business environment. Standards bodies will identify the Scopes of the
behaviour and their defined Scopes will impact implementation.

966

At the time of this specification, the defined extensions to Scopes are: Correlation
and Service Information. In the future, additional scope extensions to the SBDH
meta-model are probable. Business scopes such as "negotiation" may be added
for example.

971

Another Scopes type and extension may be added to the Scope forming the
concept of a Scope Profile. The Profile would contain various combinations of
Scope Types and their extensions in an expression of a particular business
domain within which an exchange of messages is occurring. This is described in
the following figure.

977

Provisions are expressed in different resources that may logically and formally
overlap each other. In order to achieve a clear and concise interpretation of the
provisions, the dependencies between them must be exactly defined.
Relationships such as superiority, replacement, modification are possible

- 982 relationship types.
- 983

984 9.3 Scopes

985 The repeatable and general Scopes within the Business Scope blocks gives a 986 structure and provides one mechanism to implement business scope knowledge 987 in the code and allow the system to traverse all the relevant information. The 988 Business Scope provides a method that supports a highly scripted discovery – 989 agreements are easier to manage up front. That is the key function of the 990 Business Scope block. When exchanging business information, documentation 991 of only the lowest current level of scope is required. From this information all 992 information exchanged can be deduced.

993

BusinessScope is a Scope reference mechanism and should not in general be
used for Scope definitions. BusinessScope should be used to identify and
reference the circumstances and scopes that govern a particular exchange of
data messages. The referenced documents, resources, specifications etc.
contain themselves complementary information relevant to the scope and
information about relationships.

1000

1001 The BusinessScope is currently a list of governing Scopes. However such lists1002 can handle flat structures as well as hierarchical structures (such UMM Business

Processes and ebXML Core Components), lattices and the more generic
directed acyclic graph structures. This is because a Scope considers the Scope
itself and not the Scope's relationship to other Scopes (i.e. reference to a node).
Currently, Scopes are a linear list; however, there may be a relationship shown
between the Scopes in the future. This will be accomplished by an extension to
this version of the SBDH specification. The structure is described in the figure
below.

- 1010
- 1011



1018 10. The figure below provides the UMM meta-model for the SBDH.



1024 The next figure provides the UMM meta-class extension of the SBDH classes:



approach is used this tag becomes the root of the generated XML Instance
Document. MANDATORY, object.

HeaderVersion (Business Document Header. Version. Identifer): Descriptor
 which contains version information for the SBDH (i.e. a number indicating the
 version of the SBDH). This Header Version information is not the same as
 the version information of the business document. REQUIRED, String.
 NOTE: The HeaderVersion value is currently "1.0". The HeaderVersion will
 be updated any time that the schema defining the HeaderVersion changes.

- Sender Block> (Sender_ Party. Details): Logical party representing the
 organization that has created the standard business document. This block is
 repeatable. If the Sender block is repeated then the first sender will be the
 primary sender and the second sender will be the secondary sender. The
 secondary sender will be used for internal routing purposes only to further
 identify the internal routing. The primary sender is REQUIRED, object. The
 secondary sender can repeat 1 to multiple times and is OPTIONAL, object.
 - 1. **Identifier** (*Sender_ Party. Identification. Identifier*): Descriptor with information to identify this party; REQUIRED, String.
 - 2. **Authority** (*Identification Scheme. Agency. Identifier*): Descriptor that qualifies the identifier used to identify the sending party; REQUIRED, String.
 - ContactInformation (Sender_ Party. Contact. Contact): Information about the contact for this document; Can repeat 0 to multiple times. OPTIONAL, object. Includes:
 - a) **Contact** (*Contact. Name. Name*): contact for business, REQUIRED, String;
 - b) **EmailAddress** (*Contact. EMail Address. Text*): email address of contact; OPTIONAL, String;
 - c) **FaxNumber** (*Contact. Fax Number. Text*): of contact; OPTIONAL, String;
 - d) **TelephoneNumber** (*Contact. Telephone Number. Text*): of contact; OPTIONAL, String;
 - e) **ContactTypeIdentifier** (*Contact. Role Identification. Identifier*): role of the contact in this business process; OPTIONAL, String.
- < Receiver Block> (*Receiver_ Party. Details*): Logical party representing the organization that receives the SBD. This block is repeatable. If the Receiver block is repeated than the first receiver will be the primary receiver and the second receiver will be the secondary receiver. The secondary receiver will be used for internal routing purposes only to further identify the internal routing. The primary sender is REQUIRED, object. The secondary sender can repeat 1 to multiple times and is OPTIONAL, object.
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1101	1. Identifier (Receiver Party. Identification. Identifier): Descriptor with
1102	information to identify this party; REQUIRED, String.
1103	2. Authority (Identification Scheme. Agency. Identifier): Descriptor that
1104	qualifies the identifier used to identify the receiving party; REQUIRED,
1105	String. Includes:
1106	3. ContactInformation (Receiver_ Party. Contact. Contact): Information
1107	about the contact for this document; OPTIONAL, object. Can repeat 0 to
1108	multiple times. Includes:
1109	a) Contact (Contact. Name. Name): contact for business, REQUIRED,
1110	String;
1111	b) EmailAddress (Contact. EMail Address. Text): email address of
1112	contact; OPTIONAL, String;
1113	c) FaxNumber (<i>Contact. Fax Number. Text</i>): of contact; OPTIONAL,
1114	String;
1115	d) TelephoneNumber (<i>Contact. Telephone Number. Text</i>): of contact;
1116	OPTIONAL, String;
1117	e) ContactTypeldentifier (Contact. Role Identification. Identifier): role of
1118	the contact in this business process; OPTIONAL, String.
1119	
1120	< DocumentIdentification block> (Standard Business Document. Details)
1121	Characteristics containing identification about the document. REQUIRED,
1122	object.
1123	
1124	1. Standard (Standard Business Document. Standard Type. Code): The
1125	originator of the type of the Business Data standard, e.g. SWIFT, OAG,
1126	EAN.UCC, EDIFACT, X12; references which Data Dictionary is being
1127	used. Used for the task of verifying that the grammar of a message is
1128	valid. Comment: This information may be provided in a URI if XML;
1129	probably not if EDI. REQUIRED, String.
1130	2. TypeVersion (Standard Business Document. Standard Type Version.
1131	Identifier): Descriptor which contains versioning information or number of
1132	the standard that defines the document which is specified in the 'Type'
1133	data element, e.g. values could be '1.3' or 'D.96A', etc This is the
1134	version of the document itself and is different than the HeaderVersion.
1135	REQUIRED, string.
1136	3. InstanceIdentifier (Standard Business Document. Instance. Identifier):
1137	Descriptor which contains reference information which uniquely identifies
1138	this instance of the SBD between the sender and the receiver. This
1139	identifier identifies this document as distinct from others. There is only
1140	one SBD instance per Standard Header. The Instance Identifier is usually
1141	automatically generated by the middleware. REQUIRED, string.
1142	4. Type (<i>Standard Business Document. Type. Code</i>): A logical indicator
1143	representing the type of Business Data being sent or the named type of
1144	representing the type of Business Data being sent or the named type of business data. This attribute identifies the type of document and not the
	representing the type of Business Data being sent or the named type of
$\begin{array}{c} 1147\\ 1148\\ 1149\\ 1150\\ 1151\\ 1152\\ 1153\\ 1154\\ 1155\\ 1156\\ 1157\\ 1158\\ 1159\\ 1160\\ 1161\\ 1162\\ 1163\\ 1164\\ 1165\\ 1166\\ \end{array}$	 closely related types. The industry standard body (as referenced in the 'Standard' element) is responsible for defining the Type value to be used in this field (e.g. 'order', 'catalogItemNotification', 'INVOIC', etc.). Comment: The type may be linked to the service. REQUIRED, string. 5. MultipleType (Standard Business Document. Multiple Document Type. Indicator): A flag to indicate that there is more than one type of Document in the instance. A "false" denotes that Type contains only one type of document; a "true" denotes that Type contains more than one type of document; a "true" denotes that Type contains more than one type of document and that the name provided by the Standard authority identifies the multiple documents and not a single document. The instance document or interchange can contain one or more business documents of a single document type or multiple related document types. (E.g. Order, OrderSummary; or Invoice, TaxCon) Boolean, OPTIONAL. 6. CreationDateAndTime (Standard Business Document. Creation. Date Time): Descriptor which contains date and time of SBDH/document creation. In the SBDH the parser translator or service component assigns the SBD a Date and Time stamp. The creation date and time expressed here most likely will be different from the date and time stamped in the transport envelope. REQUIRED, dateTime.
--	--
1167	<manifest block=""> (Manifest. Details): Manifest that describes the related items</manifest>
1168	or attachments (i.e., binary files), if any, being sent in this package.
1169	OPTIONAL, Object.
1170	
1171	1. NumberOfItems (Manifest. Item Count Number. Numeric): The count of
1172	number of items associated with this package. Includes the base payload
1172	and any attachments. REQUIRED, Integer
1174	2. ManifestItem (<i>Manifest. Item. Binary Object</i>): Provides information about
1174	the referenced item information; Repeatable if there is more than one item
1175	
1176	or attachments; REQUIRED, Object, Repeatable. Includes: a) MimeTypeQualifierCode (Binary Object. Mime. Code): Code
1178	describing whether the contents are XML or EDIFACT or X12, etc.
1178	
1180	syntax. Types are defined by IANA (see http://www.iana.org/assignments/media-types/) REQUIRED, String.
1180	b) UniformResourceIdentifier (Binary Object. Uniform Resource.
1182	<i>Identifier</i>): URI of the Manifest Item taken from its namespace; [For
1182	the useful guidance on how to reference external and internal
1184	message documents, the reader is referred to the RFC on Content
1185	
	Id URIs. This RFC 2392 (obsoletes 2111) can be found at the
1186	following location: <u>http://www.faqs.org/rfcs/rfc2392.html];</u>
1187 1188	REQUIRED, String.
1189	 c) Description (Binary Object. Description. Text): Text Description of Item; OPTIONAL, String.
1189	
	d) LanguageCode (<i>Binary Object. Language. Identifier</i>): Language of
1191 1192	Item in ISO 639; OPTIONAL, String.
1192	

1193	
1193	<businessscope block=""> (Business Scope. Details): The business scope</businessscope>
1194	
1195	contains 1 to many [1*] scopes. It is not mandatory to put all intermediary scopes in an SBDH. Only those scopes that the parties agree to are valid. The
1197	following examples are all valid: transaction; business process; collaboration. A
1198	Profile may be used to group well-formedness rules together. The business
1199	scope block consists of the Scope block. OPTIONAL, Object.
1200	1. < Scope block> (<i>Business Scope. Scope</i>): Indicates the type of scope,
1201	the identifiers for the scope, other supporting information and the scope
1202	content itself. The importance of the Scope is that it allows the SBDH to
1203	operate under auspices of an agreement; that parties agree that they only
1204	include reference agreements (i.e. make a reference of SBDH and
1205	RosettaNet or OASIS CPP/A). Additional types of agreements are
1206	expected to be defined in the future. OPTIONAL, Object.
1207	a) Type : (<i>Business Scope. Scope Type. Code</i>): Indicates the kind of
1208	scope; an attribute describing the Scope. Example entries include:
1209	UN/CEFACT Transaction, UMM:BusinessCollaboration,
1210	BusinessProcess, ebXML:BusinessService,
1211	BusinessServiceAction, BCF:AuthorizedRole, or Role Party. Could
1212	be used to indicate role reversal. MANDATORY, String.
1213	b) InstanceIdentifier: (Business Scope. Scope Instance. Identifier):
1214	A unique identifier that references the instance of the scope (e.g.
1215	process execution instance, document instance). For example, the
1216	Instance Identifier could be used to identify the specific instance of
1217	a Business Process. This identifier would be used to correlate all
1218	the way back to the business domain layer; it can be thought of as
1219	a session descriptor at the business domain application level.
1220	OPTIONAL, String.
1221	c) Identifier: (Business Scope. Scope. Identifier) An optional unique
1222	descriptor that identifies the "contract" or "agreement" that this
1223	instance relates to. It operates at the level of business domain, not
1224	at the transport or messaging level, by providing the information
1225	necessary and sufficient to configure the service at the other
1226	partner's end. Valid values for the Identifier may be in the form of
1227	a: URI, URN, ebXML CPAID, RosettaNet TPA, EDIFIEC or Partner
1228	Defined. Partners agree on how to describe the contract. A
1229	reference to the definition of legal compliance can be used as
1230	values in Identifier as well. It references the type of parent scope
1231	(e.g. process model, document specification). Several methods
1232	may be use to identify scopes: for example, Global identifiers
1233	(GUID), relative identifiers (role name sequence number, local
1234	name). OPTIONAL, String.
1235	The following objects are the first extensions of the Dusinger Coope to be
1236	The following objects are the first extensions of the Business Scope to be
1237	defined:

1241

- the BusinessService block
- and the CorrelationInformation block.

1242 In the future, the BusinessScope block will be extended with additional business
1243 scope and context extensions or substitutions, as these become defined by the
1244 business.

1245

1246 < **BusinessService** block> (*Business Service. Details*): Initiator's description of 1247 the service to be carried out on the SBD by receiver. The SBDH may be used to 1248 place a business document in the proper context for the UMM/Business 1249 Collaboration Framework (BCF) service layer and transaction layer. The SBDH 1250 does not model the BCF environment; it places the document within the context 1251 of a BCF environment which is modelled elsewhere in UN/CEFACT 1252 specifications. As such, a particular document will be in the context of one 1253 service transaction and one business transaction (i.e. in two different layers of 1254 the stack). OPTIONAL, Object.

1255

1275

1276

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1278 1279

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1256 1. BusinessServiceName (Business Service. Name): Initiator's description 1257 of service to be carried out on the SBD by receiver. Comment: A business 1258 service is a network component responding to business transaction 1259 requests initiated by other services. It has network identity as a business 1260 service. Business services monitor the execution of service collaborations. 1261 The service protocol implemented in the SBDH operates only in the 1262 document layer of the e-business network: it is not concerned with 1263 Transport or Message Layers. In the context of an ebXML business 1264 process model, a service is a set of related actions for an authorized role 1265 within a party. OPTIONAL, String. 1266

ServiceTransaction (Business Service. Service Transaction. Name):
 BusinessServiceTransaction is a specific instruction to be executed by the
 'BusinessServiceName' on the received Standard Business Document.
 The ServiceTransaction element identifies a process within a
 BusinessService that processes the SBD. BusinessServiceTransaction
 SHALL be unique within the Service in which it is defined. OPTIONAL,
 Object.
 (The following elements are an expression at a business level of what

(The following elements are an expression at a business level of what service an application wants and should not be construed as instructions to an infrastructure application.)

- a) TypeOfServiceTransaction (BusinessService. ServiceTransaction. TypeOfServiceTransaction. Identifier): The value of the TypeOfServiceTransaction element is specified by UMM as: 'Requesting Service Transaction' or 'Responding Service Transaction'. OPTIONAL, String.
- 1282b)IsNonRepudiationRequired (Business Service. Service1283Transaction. Is Non Repudiation Required. Indicator): Non-1284repudiation of origin and content means that the originator must

1285		digitally sign the business data and the recipient must store the
1286		business data (including the digital signature) in its original form for
1287		the duration mutually agreed to in a trading partner agreement.
1288		OPTIONAL, Boolean
1289	C)	IsAuthenticationRequired (Business Service. Service
1290		Transaction. Is Authentication Required, Indicator): If
1291		IsNonRepudiationRequired is true, this tag is superfluous.
1292		Otherwise, the tag indicates whether the identity of the sending role
1293		is verified. OPTIONAL, Boolean
1294	d)	IsNonRepudiationOfReceiptRequired (Business Service. Service
1295	,	Transaction. Is Nonrepudiation Of Receipt Required. Indicator):
1296		Indicates that both partners agree to mutually verify receipt of
1297		requested business data and that the receipt must be non-
1298		reputable. OPTIONAL, Boolean
1299	e)	IsIntelligibleCheckRequired (Business Service. Service
1300	,	Transaction. Is Intelligible Check Required. Indicator): Both
1301		partners agree that a responding partner role must check (e.g. via
1302		use of a document digest) that received data is not garbled
1303		(unreadable, unintelligible) and has integrity (i.e. has not been
1304		altered) before acknowledgment of proper receipt is returned to the
1305		requesting partner. OPTIONAL, Boolean
1306	f)	IsApplicationErrorResponseRequested (Business Service.
1307	,	Service Transaction. Is Application Error Response Requested.
1308		Indicator): Both partners agree that a responding partner's
1309		receiving business application must check for application level
1310		errors; and if any are detected, must respond with an Error
1311		Response Acknowledgment noting the errors detected. OPTIONAL,
1312		Boolean
1313	g)	TimeToAcknowledgeReceipt (Business Service. Service
1314	•	Transaction. Time To Acknowledge Receipt): Specifies the time
1315		period by which a Receipt Acknowledgment must be returned by
1316		the responding partner's receiving business application. The
1317		requesting and responding partners must jointly agree on the time
1318		period. It is measured from the time a business data request is sent
1319		by a requesting partner until the time verification of receipt is
1320		"properly received" by the requesting business partner. The Receipt
1321		Acknowledgment only indicates receipt of data by the business
1322		application; it does not indicate business acceptance of the
1323		contents of the message. If the TimeToAcknowledgeReceipt
1324		element is used, it indicates that a Receipt Acknowledgment is
1325		requested. OPTIONAL, TimeExpression
1326	h)	TimeToAcknowledgeAcceptance (Business Service. Service
1327		Transaction. Time To Acknowledge Acceptance): Specifies the time
1328		period that an Acceptance Acknowledgment (which indicates
1329		business acceptance of the contents of the document) must be
1330		returned by the responding role. It is measured from the time a

1331 1332 1333 1334 1335 1336 1337 1338 1339 1340 1341 1342	 requesting partner sends business data until the time an acknowledgement of acceptance is "properly received" by the requesting partner. If the TimeToAcknowledgeAcceptance element is used, it indicates that an Acceptance Acknowledgment is requested. OPTIONAL, TimeExpression i) TimeToPerform (<i>Business Service. Service Transaction.Time To Perform</i>): Specifies the time period by which this transaction must be completed (measured from the time the business data is "properly received"). OPTIONAL, TimeExpression j) Recurrence (<i>Business Service. Service Transaction. Recurrence</i>): OPTIONAL, Unsigned Integer
1343	< CorrelationInformation block> (Correlation. Details): A block of information
1344	used to correlate a requesting SBD to a responding SBD and to the contract in
1345	an executing choreography. A requesting document in the choreography could
1346	have: no response, a notification, or a response document. Therefore, the
1347	requesting and responding part of the choreography is not always one unit of
1348	activity. Using the correlation block, parties explicitly identify the document being
1349	responded to, rather than having only the content of the document to identify the
1350	requesting document. UN/CEFACT BPSS correlates information at the
1351	transaction level but not at the business domain level, which is the function of this
1352	block. This is valuable information for both parties' business data creator
1353	applications to correlate their document exchanges. The requesting document is
1354	often, but not necessarily, the very first document in the sequence. If the
1355	Requesting document is being sent, some of the information in this block is not
1356	necessary - the block attributes are OPTIONAL, Object. Includes:
1357	1. RequestingDocumentCreationDateTime (Correlation Requesting
1358	Document. Creation. Date Time): Descriptor which contains date and time
1359	of the requesting SBDH and SBD, assigned to the requesting SBDH and
1360	SBD by the parser translator or service component. OPTIONAL,
1361	DateTime.
1362	2. RequestingDocumentInstanceIdentifier (Correlation Requesting
1363	Document. Identification. Identifier): Identifier of requesting SBDH and
1364	SBD instance. OPTIONAL, String.
1365	3. ExpectedResponseDateTime (<i>Correlation. Expected Response. Date</i>
1366 1367	<i>Time</i>): Date and time when response is expected. This element could be populated in an initial message of a correlation sequence, and should be
1368	echoed back in a subsequent response. OPTIONAL, DateTime.
1369	echoed back in a subsequent response. OF HONAL, Date fille.
1370	11 DETAILED USE CASE EXAMPLES
1371	Note: These everyles are subject to charge by UNUOFFACT. Distingent of
1372	Note: These examples are subject to change by UN/CEFACT. Dictionary entry
1373	names for the core component / basic information entity names may change after
1374 1375	they have been processed through the UN/CEFACT harmonisation / approval process.
1375	

1377 **11.1 Use case 1. XML data in a non-ebXML environment**

1378 Assumptions

- In this use case, the SBDH will be sent in a separate MIME Part from the rest of the payload. Therefore, the StandardBusinessDocument tag is not used in this example. The rest of the payload is not shown in this example.
- This use case requires the use of the optional Manifest object because
 there are two attachments to be sent.
- The middleware processing this use case does not require the information in the BusinessScope object; therefore, this information is not part of the payload.
- In this use case 2 sender blocks and 2 receiver blocks are shown. The
 first sender is the primary used for primary routing; the second sender is
 the secondary routing sender. There may be additional sender blocks and
 they would also be used for routing purposes. This same holds true for the
 receiver.
- This use case shows the values that are known by the Business Data Creator in
 the first table. The second table shows the standard values after the original Data
 Creator values are transformed.
- 1395
- The Business Data Creator is the source of SBD creation and creates data in
 "Internal Business Document" format. The Business Data Creator application
 populates logical information only in the SBDH REQUIRED fields:
- 1399 The following field values are populated by the Business Creator Application.

1400Table 2. Business Creator Application Business Terms and Values

Business	Term	Example Value	
Sender	Identifier		XYZ Retailer -12345
	Authority		XYZ Retailer
	ContactInformation	Contact	Corporate Headquarters
		EmailAddress	CorporateHeadquarters
			@XYZretailer.com
		FaxNumber	1-212-555-1212
		TelephoneNumber	1-212-555-2121
		ContactTypeIdentifier	Corporate Organization
Sender	Identifier		XYZ Retailer
			Purchasing Department
	Authority		XYZ Retailer
	ContactInformation	Contact	John Doe

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		EmailAddress	John_Doe@purchasing. XYZretailer.com
		FaxNumber	1-212-555-1213
		TelephoneNumber	1-212-555-2122
		ContactTypeIdentifier	Buyer
Receiver	Identifier		WidgetsMarket
	Authority		Widgets
	ContactInformation	Contact	Mary Smith
		EmailAddress	Mary_Smith@widgets.c om
		FaxNumber	1-312-555-1214
		TelephoneNumber	1-312-555-2125
		ContactTypeIdentifier	Seller
Receiver	Identifier	· · · ·	WidgetsSales-123
	Authority		Widgets
	ContactInformation	Contact	Jane Austin
		EmailAddress	Jane Austin@widgets.c
			<u>om</u>
		FaxNumber	1-312-555-1216
		TelephoneNumber	1-312-555-2127
		ContactTypeIdentifier	Assistant Seller
Document Identification	Standard		Trade Item Information Record
	TypeVersion		2.1.3.4
	Туре		Trade Item Information Record
	CreationDateAndTime		Sept. 15, 2003 at 10:00:00
Manifest	NumberOfItems	·	2
	ManifestItem	MIMETypeQualifierCode	video/mpeg
		UniformResourceIdentifier	http://www.widgets.com/ /ProductImage
		Description	MPEG Video Image of Product
		LanguageCode	English

1402

Table 3. Parser/Translator Transformed Business Terms

1403

(see <u>Sample 1</u> in Appendix B)

Business Term			Transformed Example Value
StandardBus	sinessDocumentHeader		The root tag of the instance containing the SBDH information.
HeaderVersi	<u>on</u>		1.0
Sender	Identifier		6903148000007
	Authority		EAN.UCC
	ContactInformation	Contact	Corporate Headquarters *
		EmailAddress	CorporateHeadquarters@XY

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			Zretailer.com *
		FaxNumber	*
			1-212-555-1212
		TelephoneNumber	1-212-555-2121
		ContactTypeIdentifier	Corporate Headquarters
Sender	Identifier		6903148000008
	Authority		EAN.UCC
	ContactInformation	Contact	John Doe
		EmailAddress	John_Doe@purchasing.XYZr
			etailer.com
		FaxNumber	1-212-555-1213
		TelephoneNumber	1-212-555-2122 *
		ContactTypeIdentifier	Buyer *
Receiver	Identifier		2203148000007
	IdentifierAuthority	EAN.UCC	
	ContactInformation	Contact	Mary Smith *
		EmailAddress	Mary_Smith@widgets.com
		FaxNumber	1-312-555-1214
		TelephoneNumber	1-312-555-2125
		ContactTypeIdentifier	Seller
Receiver	Identifier		2203148000008
	IdentifierAuthority	EAN.UCC	
	ContactInformation	Contact	Jane Austin
		EmailAddress	Jane Austin@widgets.com
		FaxNumber	1-312-555-1216
		TelephoneNumber	1-312-555-2127 *
		ContactTypeIdentifier	Assistant Seller
Document	Standard		http://www.uc-
Identification			council.org/smp/schemas/sim
			pl-eb
	TypeVersion		1.3
	Instance Identifier		100001
	Type		tradeltemDocument false
	MultipleType CreationDateAndTime		2003-09-15T10:05:00Z
Manifest	NumberOfItems	2	2003-03-13110.03.002
Mannest	ManifestItem	MIMETypeQualifierCo	video/mpeg
		de	
		UniformResourceIdent ifier	http://www.widgets.com//Prod uctImage
		Description	MPEG Video Image of Product
		LanguageCode	EN

1404 * = No transformation changes between the Business Document and the Standard Business
 Document

- 1407 There are attachments to be sent along with the document; therefore the1408 Business Data Creator populates the optional Manifest object.
- 1409 2) The Business Data Creator collects the SBDH with the payload and1410 attachments and passes all the data to the Parser Translator.

1411 3) The Parser Translator receives the data and transforms the internal Business
1412 Document values into external SBDH semantic and format values and syntax
1413 and updates the Header with the new values. Logical information only is placed
1414 in the SBDH. The following field values are populated by the translator/parser to
1415 ensure that the values represent a well-known, shared standard. In this example,
1416 an XML syntax will be created.

- 1417 Document Identification: In our example, this information is known from
- 1418 the URI of the namespace, so in this case it is redundant and does not
- 1419 need to be used. Still, we provide the URI as an example of the Standard.
- 1420 4) The Parser Translator sends the data to the Communications Application.
- 1421 5) The Communications Application receives the data and uses the SBDH to
- 1422 determine the physical destination of the document for external routing and the
- 1423 transport protocol used to move the data from the sender to the receiver.
- 1424 Typically, the Communications Application uses a table to lookup the destination 1425 and protocol.
- 1426 Transport Headers are created by the Communications Application from the1427 SBDH.
- Schema examples for Sample 1 are located in Appendix A. The InstanceDocument is located in Appendix B.
- 1430

1431 **11.2 Use case 2. XML data in an ebXML environment**

1432 Assumptions

- In this use case, the SBDH and the SBD will be packaged in one XML instance document. Therefore, the StandardBusinessDocument tag is used in this example. The rest of the payload is shown is a fragment of an Order document.
- This use case does not require the use of the optional Manifest object because there are no attachments to be sent.

- The middleware processing this use case requires that the information in the BusinessScope object is populated.
- In this use case there is only a primary routing for sender and a primary routing for receiver.

This use case shows only the standard values after the original Data Creator
values are transformed in a single table. It does not include the Business Data
Creator values.

- 1446 This example contains a requesting and a responding example, useful in 1447 showing the use of the Business scopes.
- 1448 The roles of the Business Data Creator, Parser/Translator and Communications 1449 Applications are the same as in the previous use case, even though the eventual
- 1450 SBD contents and packaging are somewhat different.

1451 In this scenario, the Business Service to be carried out on the SBD is the Order-

1452 Sell service. Order-Sell service will invoke the Original-Order action. The

1453 Business Process that the Scopes are an instance of is the End-to-End-Order-to-

1454 Sell-Collaboration. The definitive reference to this Business Process is found at

1455 the location <u>http://www.XYZretailer.com/ProcessReference/Order-Sell/version2</u>.

- 1456 The current state of the executing Business Process from the sender's
- perspective is Pending. The receiver, having received communication of the
 Service Information from the sender's perspective, will act accordingly upon
 receipt of the SBD.

Once the Document Identification and Service Information are established, the parser/translator will use the Correlation object to establish explicit information about the requesting SBD (which contains the SBDH). Having the information explicitly stated allows both the sender and receiver to correlate the business domain information as the collaboration is in the process of execution. The date and time stamp of the Requesting SBD is: 2003-09-17T12:10:00Z as known from

1466 the Document Identification/ CreationDateAndTime. Therefore the requesting

1467 SBD will contain the same date and time stamp in the

1468 RequestingDocumentCreationDateTime. Since this information is redundant in
1469 this example, because it is the requesting example, the optional tag may be
1470 omitted. Likewise, the CorrelationInformation/

- 1471 RequestingDocumentInstanceIdentifier is the same as the Document
- 1472 Identification/InstanceIdentifier in this requesting example. The response is
- 1473 expected by 2003-09-22T12:10:00Z (within 5 days from the 17th of September),
- 1474 and this is provided in the CorrelationInformation/ ExpectedResponseDateTime
- 1475 tag. The remainder of the values for Correlation object are shown in the table 1476 below.

1478

Table 4.

1479Parser/Translator Transformed Business Terms for Requesting SBD1480(see Sample 2a in Appendix B)

1481

Business T	erm			Transformed
				Example Value
StandardBusinessDocument			The root tag of the instance containing the SBDH and the SBD.	
StandardBusinessDocumentHeader			r	The tag wrapping only the SBDH part.
HeaderVersi	าท			1.0
Sender	Identifi	er		6903148000007
	Author			EAN.UCC
		tInformation	Contact	John Doe
			EmailAddress	John Doe@purchasi
			FaxNumber	ng.XYZretailer.com
				1-212-555-1213
			TelephoneNumber	1-212-555-2122
			ContactTypeIdentifier	Buyer
Receiver	Identifi			2203148000007
		erAuthority		EAN.UCC
	Contac	tInformation	Contact	Mary Smith
			EmailAddress	Mary Smith@widget
				s.com
			FaxNumber	1-312-555-1214
			TelephoneNumber	1-312-555-2125 *
			ContactTypeIdentifier	Seller *
Document Identificatio n	Standa	ırd		http://www.uc- council.org/smp/sche mas/simpl-eb/Order
	TypeVe	ersion		1.3
	Instanc	e Identifier		100002
	Туре			order
	Multiple		false	
	Creatio	onDateAndTim	le	2003-09- 17T12:10:00Z
BusinessSc ope	Scop e	Туре		BusinessProcess
		Instancelder	ntifier	End-to-End-Order-to- Sell-Collaboration
		Identifier		http://www.XYZretail er.com/Scopeldentifi er/Order- Sell/version2-123
		BusinessSer		
		Busi	inessServiceName	Order-Sell

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	ServiceTransaction	Original-Order
	TypeOfServiceTransaction	RequestingServiceTr
		ansaction
	IsNonRepudiationRequired	false
	IsAuthenticationRequired	true
	IsNonRepudiationOfReceiptRequired	true
	IsIntelligibleCheckRequired	true
	IsApplicationErrorResponseRequested	true
	TimeToAcknowledgeReceipt	P12H +
	TimeToAcknowledgeAcceptance	P2D +
	TimeToPerform	P5D +
	Recurrence	3
	CorrelationInformation	
	RequestingDocumentCreationDateTime	2003-09-
		17T12:10:00Z
	RequestingDocumentInstanceIdentifier	100002
	ExpectedResponseDateTime	2003-09-
		22T12:10:00Z
Order		This sample includes
		a fragment of an
		XML Order packaged
		as part of the
		Standard Business
		Document

1482 * = No transformation changes between the Business Document and the Standard Business
 1483 Document

- ⁺See W3C Datatypes specification for the duration of time format.
- 1485

In the Responding Document, Mary Smith is now the Sender and John Doe is
now the Receiver. The type of document is an Order Response. The Document
Identification/ InstanceIdentifier is 550001. The Document Identification/
CreationDateAndTime is May 9th, within the time allocated for a response. The
Business Scope type is a Business Process with a new Instance Identifier. The
Parent Scope is the same as the Scope for the Requesting Document.

- 1492 1493 The Correlation/ CreationDateAndTime, / InstanceIdentifier and /
- 1494 Expected Response Date Time are not redundant in this responding example. The 1495 same information as found in the original requesting document is placed here. If
- same information as found in the original requesting document is placed here. If there were several transactions in this collaboration, the original or first
- 1497 requesting document information would be placed here in all the SBDH
- instances. There could be several ongoing Request-Response collaborations
 between the two partners. This information "correlates" this response to the
- 1500 correct original request.
- 1501
- 1502
- 1503

1504 **Table 5.**

1505 **Parser/Translator Transformed Business Terms for Responding SBD.**

(see <u>Sample 2b</u> in Appendix B)

1506

Busines	ss Term		Transformed Example Value
Standard	BusinessDocument		The root tag of the instance containing the SBDH and the SBD.
	BusinessDocument	Header	The tag wrapping only the SBDH part.
HeaderVe			1.0
Sender	Identifier		2203148000007
	Authority		EAN.UCC
	ContactInforma tion	Contact	Mary Smith
		EmailAddress	<u>Mary_Smith@wid</u> <u>gets.com</u>
		FaxNumber	1-312-555-1214
		TelephoneNumber	1-312-555-2125
		ContactTypeIdentifier	Seller *
Receiver	Identifier		6903148000007
	IdentifierAuthorit		EAN.UCC
	ContactInforma tion	Contact	John Doe
		EmailAddress	John Doe@purch asing.XYZretailer. com
		FaxNumber	1-212-555-1213
		TelephoneNumber	1-212-555-2122
		ContactTypeIdentifier	John Doe *
Docume nt Identific ation	Standard		http://www.uc- council.org/smp/s chemas/simpl- eb/Order
	TypeVersion		1.3
	Instance Identifier		550001
	Туре		Order
	MultipleType		false
	CreationDateAn dTime		2003-09- 17T12:10:00Z

Busines sScope	Scope	Туре	BusinessProces s
	1	InstanceIdentifier	End-to-End- Order-to-Sell-
			Collaboration
		Identifier	http://www.XYZr
			etailer.com/Scor
			eldentifier/Order
			-Sell/version2-
		Destaura Oractica	123
		BusinessService	Order Cell
		BusinessServiceName ServiceTransaction	Order-Sell
			Original-Order- Response
		TypeOfServiceTransaction	RespondingSer iceTransaction
		IsNonRepudiationRequired	false
		IsAuthenticationRequired	true
		IsNonRepudiationOfReceiptRequired	true
		IsIntelligibleCheckRequired	true
		IsApplicationErrorResponseRequested	true
		TimeToAcknowledgeReceipt	P12H +
		TimeToAcknowledgeAcceptance	P2D +
		TimeToPerform	P5D +
		Recurrence	3
	Scope	Туре	BusinessProces s
		InstanceIdentifier	XYZ
		Identifier	BP346
		ParentScope	
		Туре	BusinessProces
			S
		InstanceIdentifier	ABC
		Identifier	BP345
		eholder for additional Business Scopes that will be def TBG, UN/CEFACT UBAC or other industry standards	
orderRes			This sample
			includes a
			fragment of an
			XML Order
			Response packaged as
			part of the
			Standard
			Business
			Document

1508 * = No transformation changes between the Business Document and the Standard Business Document

1510 ⁺ See W3C Datatypes specification for the duration of time format.

- 1511
- 1512 Schemas for the SBDH and Sample order and order response are located in
- 1513 Appendix A. Instances for Sample 2 requesting and responding documents are
- 1514 located in Appendix B.
- 1515

1516 11.3 Use case 3. SBDH with EDI payload in an ebXML environment

1517 Goal of this use case scenario

- 1518 This scenario shows how the SBDH will work with an EDIFACT ORDERS
- message payload in a CEFACT Business Service to Business service and 1519
- 1520 Business Process. In this Use Case, an EDI message is wrapped in the SBDH,
- 1521 in order to solve the problem of having no process information in EDI.
- 1522 This scenario will show how to use the SBDH in an ebXML scenario and also 1523 how to help bring legacy systems forward by bringing collaborative knowledge in 1524 conjunction with the processes to non ebXML messages, such as EDI.
- 1525 As an example, the following EDI messages form a process:
- 1526 1527

ORDERS Purchase Orders

- 1528 INVOIC Invoices
- 1529 In this scenario, those EDI messages could be handled as ebXML "business 1530 processes".
- 1531 The Business Data Creator is the source of message creation and creates data 1532 in "Internal Business Document" format. Because this is an ebXML environment. 1533 there is reason to use the Service Information. The Business Data Creator 1534 populates the ServiceInformation object. The Business Data Creator declares a 1535 Business Service using the EDI processes listed above. The Business Data 1536 Creator: 1537
 - establishes a context for the message: •
- 1538 establishes a collaboration in which the established services are now • 1539 capable of participation. The collaboration becomes associated with the 1540 set of information exchanges. The Business Data Creator and its partner 1541 on the other side will associate the set of EDI messages with the 1542 collaboration - the processes and instances of messages exchanged 1543 within the process.

1544 The Business Data Creator sends all the data in "Internal Business Document" 1545 format to the Middleware.

- 1546The Middleware Parser Translator function receives the data and transforms the1547internal Business Document values into external SBDH format values. Only
- 1548 logical information is placed in the SBDH.
- 1549 The Parser Translator sends the data to the Communications Application.
- 1550 The Communications Application receives the data and uses the SBDH to
- 1551 determine the physical destination of the document (external routing) and the
- 1552 transport protocol used to move the data from the sender to the receiver.
- 1553 Typically, the Communications Application uses a table to lookup the destination 1554 and protocol.
- 1555 Transport envelope values are created by the Communications Application from 1556 information in the SBDH.
- 1557
- 1558 An example of exchanging BP state information for a group of EDI transaction 1559 sets forming an "Order-Sell" process follows.
- 1561 Below are the SBDH fields and their data values.
- 1562 Assumptions:
- 1563 1564

1566

- This use case will pass all the payload information as one instance document. The StandardBusinessDocument tag is used as the root.
- 1567 This use case example shows only the requesting document.
- 1568 1569
- Table 6. Parser/Translator Transformed Business Terms

 (see Sample 3 in Appendix B)

Business Term			Transformed Example Value in its XML Representation
Standard	BusinessDocur	nent	Tag used to include the entire contents of the SBDH and the EDI Order.
Standard	StandardBusinessDocumentHeader		Tag used to wrap the contents of the SBDH
HeaderVe	HeaderVersion		1.0
Sender	Identifier		6903148000007
	Authority		14
	ContactInf ormation	Contact	John Doe
		EmailAddress	John_Doe@XYZretai ler.com

		FaxNumber	1-212-555-1213
		TelephoneNumber	1-212-555-2122
		ContactTypeIdentifier	Buyer
Receiver	Identifier		2203148000007
	Authority		14
	Contactl	Contact	Mary Smith
	nformati		
	on		
		EmailAddress	Mary Smith@widget
			s.com
		FaxNumber	1-312-555-1214
		TelephoneNumber	1-312-555-2125
		ContactTypeIdentifier	Seller
Document	Standar		EDIFACT
Identificati on	d		
	TypeVer		D.96A
	sion		
	Instance		100002
	Identifier		
	Туре		Order
	Multiple		false
	Туре		
	Creation		2003-05-
	DateAnd		02T00:31:52Z
	Time		
Business Scope	Scope	Туре	BusinessProcess
I		Instanceldentifier	Order-Sell/version2- 251
		Identifier	EDI Order-Sell
		BusinessService	
		BusinessServiceName	Order-Sell
		ServiceTransaction	Original-Order
		TypeOfServiceTransaction	RequestingServiceTr
			ansaction
		IsNonRepudiationRequired	false
		IsAuthenticationRequired	true
		IsNonRepudiationOfReceiptRequired	true
		IsIntelligibleCheckRequired	true
		IsApplicationErrorResponseRequeste	true
		TimeToAcknowledgeReceipt	P12H +
		TimeToAcknowledgeAcceptance	P2D +
		TimeToPerform	P5D +
		Recurrence	3
	Correlati onInfor mation	RequestingDocumentCreationDateTime	2003-05- 02T00:31:52Z
		RequestingDocumentInstanceIdentifier	100002
		ExpectedResponseDateTime	2003-05-
			10T00:31:52Z

Order	This sample includes an EDI Order converted to an XML String packaged as part of the Standard
	Business Document

1571 ⁺ See W3C Datatypes specification for the duration of time format.

1572

An XML instance document with an embedded EDI interchange matching Use
Case 3 can be found in Appendix B Sample 3. The EDI data could have also
been sent as an attachment in the Manifest.

1576

1577 **11.4 Use of SBDH in Acknowledgement and Exception Situations**

Use of the SBDH in acknowledgements and exception situations depends on the
use case. If reliable messaging is used (e.g. AS2 or ebMS), then the transport
acknowledgement signal would be part of the transport protocol. In that case, the
SBDH would not be used.

1582

1583 However, if a business application generates an acknowledgment or exception 1584 message, then the inclusion of the SBDH would be useful. This deployment

1585 scenario would make the responding message just like any other business

1586 message with a SBDH included.

1588 12 GLOSSARY

Applied Technology Group (ATG)	The purpose of the Applied Technologies Group (ATG) is to be responsible for the creation and maintenance of the trade, business and administration document structures that are based on a specific technology or standard. The function of the ATG is the design, assembly and production of syntax specific solutions based on identified business and/or technical requirements from the empowered groups of UN/CEFACT.
BCF	UN/CEFACT Business Collaboration Framework.
Business Document (BD)	A document used by a back office application, typically expressed in a proprietary format. The BD is typically transformed into a SBD via a middleware application such as a parser or a translator.
BPSS	Business Process Specification Schema. A UN/CEFACT requirements document.
Business Data Creator	The legacy, ERP or other application that creates business transactions for functional processes, such as ordering, invoicing, etc.
Business Service Interface (BSI)	The business layer interface described in ebXML.
Collaboration-Protocol Profile / Agreement (CPP/A)	An explicit TPA format defined by OASIS.
Communications Application	The application that transmits the SBD from the Sender to the Receiver.
DUNS	The identifier within the Dun & Bradstreet Universal Numbering System for partner identification.

ebMS	The electronic business Messaging Service specified by ebXML. Also known as ebXML-MS
EDI	Electronic Data Interchange
EDIFACT	Electronic Data Interchange for Administration, Commerce and Transport
GLN	The EAN Global Location Number for partner identification.
Parser/Translator	The application that transfers BDs from internal private format to an external SBD format including the SBDH.
Standard Business Document (SBD)	A document expressed in a format approved by a standards organization such as UN/CEFACT, EAN.UCC, Rosettanet, etc. Documents are typically shared between external trading partners in a SBD format.
Standard Business Document Header (SBDH)	The business level header in a standard format as described in this document. The SBDH is designed to be either an integral part of a Standard Business Document, or an object associated with the Standard Business Document.
Trading Partner Agreement (TPA)	An agreement between trading partners describing how they will exchange business information.
UN/CEFACT	United Nations Centre for Trade Facilitation and Electronic Business
UMM	UN/CEFACT Modelling Methodology
WSDL	W3C Web Services Definition Language.
XML	eXtensible Markup Language

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1609 Appendix A SBDH Schemas

1610

1611 NOTE: The example schemas in Appendix A are Non-Normative and are for 1612 information only. These will be changed, and when published, will comply with 1613 the UN/CEFACT Naming and Design Rules and the UN/CEFACT UML to XML 1614 Transformation Rules, when available.

- 1615 A.1 BasicTypes.xsd
- 1616 1617 <?xml version="1.0"?> 1618 <xs:schema 1619 targetNamespace="http://www.unece.org/cefact/namespaces/StandardBusiness 1620 DocumentHeader" 1621 xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentH 1622 eader" xmlns:xs="http://www.w3.org/2001/XMLSchema" 1623 elementFormDefault="gualified" attributeFormDefault="ungualified"> 1624 <xs:simpleType name="MimeTypeQualifier"> 1625 <xs:annotation> 1626 <xs:documentation>The MIME type as defined by IANA. Please refer to 1627 http://www.iana.org/assignments/media-types/ for a list of types. 1628 </xs:documentation> 1629 </xs:annotation> 1630 <xs:restriction base="xs:string"/> 1631 </xs:simpleType> 1632 <xs:simpleType name="Language"> 1633 <xs:annotation> 1634 <xs:documentation>ISO 639-2; 1998 representation of Language name. 1635 Refer to http://www.loc.gov/standards/iso639-2/iso639jac.html to get the latest 1636 version of the standard. 1637 </xs:documentation> 1638 </xs:annotation> 1639 <xs:restriction base="xs:string"/> 1640 </xs:simpleType> 1641 </xs:schema> 1642
- 1643 A.2 BusinessScope.xsd
- 1644
- 1645 <?xml version="1.0"?>
- 1646 <xs:schema
- 1647 targetNamespace="http://www.unece.org/cefact/namespaces/StandardBusiness
 1648 DocumentHeader" xmlns:xs="http://www.w3.org/2001/XMLSchema"

1649	xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentH
1650	eader" elementFormDefault="qualified" attributeFormDefault="unqualified">
1651	<xs:complextype name="BusinessScope"></xs:complextype>
1652	<xs:sequence></xs:sequence>
1653	<xs:element <="" minoccurs="0" name="Scope" td="" type="Scope"></xs:element>
1654	maxOccurs="unbounded"/>
1655	
1656	
1657	<xs:complextype name="Scope"></xs:complextype>
1658	<xs:sequence></xs:sequence>
1659	< <u>xs:group ref="ScopeAttributes"/></u>
1660	<xs:element <="" minoccurs="0" ref="ScopeInformation" td=""></xs:element>
1661	maxOccurs="unbounded"/>
1662	
1663	
1664	<xs:group name="ScopeAttributes"></xs:group>
1665	<xs:sequence></xs:sequence>
1666	<xs:element name="Type" type="xs:string"></xs:element>
1667	<xs:element name="InstanceIdentifier" type="xs:string"></xs:element>
1668	<xs:element minoccurs="0" name="Identifier" type="xs:string"></xs:element>
1669	
1670	
1671	<xs:element abstract="true" name="ScopeInformation" type="xs:anyType"></xs:element>
1672	<xs:element <="" name="CorrelationInformation" td="" type="CorrelationInformation"></xs:element>
1673	substitutionGroup="ScopeInformation"/>
1674	<xs:complextype name="CorrelationInformation"></xs:complextype>
1675	<xs:sequence></xs:sequence>
1676	<xs:element <="" name="RequestingDocumentCreationDateTime" p=""></xs:element>
1677	type="xs:dateTime" minOccurs="0"/>
1678	<xs:element <="" name="RequestingDocumentInstanceIdentifier" td=""></xs:element>
1679	type="xs:string" minOccurs="0"/>
1680	<pre><xs:element <="" name="ExpectedResponseDateTime" pre="" type="xs:dateTime"></xs:element></pre>
1681	minOccurs="0"/>
1682	
1683	
1684	<pre><xs:element <="" name="BusinessService" pre="" type="BusinessService"></xs:element></pre>
1685	substitutionGroup="ScopeInformation"/>
1686	<xs:complextype name="BusinessService"></xs:complextype>
1687	<xs:sequence></xs:sequence>
1688	<xs:element <="" name="BusinessServiceName" td="" type="xs:string"></xs:element>
1689	minOccurs="0"/>
1690	<xs:element <="" name="ServiceTransaction" td="" type="ServiceTransaction"></xs:element>
1691	minOccurs="0"/>
1692	
1693 1694	<
1034	< s.complex i ype name= Service mansaction >

1695 1696 1697 1698 1699 1700	<xs:attribute <br="" name="TypeOfServiceTransaction">type="TypeOfServiceTransaction" use="optional"/> <xs:attribute name="IsNonRepudiationRequired" type="xs:string"></xs:attribute> <xs:attribute name="IsAuthenticationRequired" type="xs:string"></xs:attribute> <xs:attribute <br="" name="IsNonRepudiationOfReceiptRequired">type="xs:string"/></xs:attribute></xs:attribute>
1701	<xs:attribute name="IsIntelligibleCheckRequired" type="xs:string"></xs:attribute>
1702	<xs:attribute <="" name="IsApplicationErrorResponseRequested" td=""></xs:attribute>
1703	type="xs:string"/>
1704	<pre><xs:attribute name="TimeToAcknowledgeReceipt" type="xs:string"></xs:attribute></pre>
1705	<pre><xs:attribute name="TimeToAcknowledgeAcceptance" type="xs:string"></xs:attribute></pre>
1706	<xs:attribute name="TimeToPerform" type="xs:string"></xs:attribute>
1707	<xs:attribute name="Recurrence" type="xs:string"></xs:attribute>
1708	
1709	<xs:simpletype name="TypeOfServiceTransaction"></xs:simpletype>
1710	<xs:restriction base="xs:string"></xs:restriction>
1711	<xs:enumeration value="RequestingServiceTransaction"></xs:enumeration>
1712	<xs:enumeration value="RespondingServiceTransaction"></xs:enumeration>
1713	
1714	
1715 1716	

- 1717 A.3 DocumentIdentification.xsd 1718
- 1719 <?xml version="1.0"?>
- 1720 <xs:schema

1721	targetNamespace="http://www.unece.org/cefact/namespaces/StandardBusiness
1722	DocumentHeader"

- 1723 xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentH
- eader" xmlns:xs="http://www.w3.org/2001/XMLSchema" 1724
- elementFormDefault="qualified" attributeFormDefault="unqualified"> 1725
- 1726 <xs:complexType name="DocumentIdentification">
- 1727 <xs:sequence>
- 1728 <xs:element name="Standard" type="xs:string"/>
- <xs:element name="TypeVersion" type="xs:string"/> 1729
- <xs:element name="InstanceIdentifier" type="xs:string"/> 1730
- 1731 <xs:element name="Type" type="xs:string"/>
- <xs:element name="MultipleType" type="xs:boolean" minOccurs="0"/> 1732 1733
 - <xs:element name="CreationDateAndTime" type="xs:dateTime"/>
- 1734 </xs:sequence>
- 1735 </xs:complexType>
- </xs:schema> 1736
- 1737

1738	A.4 Manifest.xsd
1739	Overly version 11 010
1740	xml version="1.0"?
1741	<xs:schema< td=""></xs:schema<>
1742	targetNamespace="http://www.unece.org/cefact/namespaces/StandardBusiness
1743	DocumentHeader"
1744	xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentH
1745	eader" xmlns:xs="http://www.w3.org/2001/XMLSchema"
1746	elementFormDefault="qualified" attributeFormDefault="unqualified">
1747	<xs:include schemalocation="BasicTypes.xsd"></xs:include>
1748	<xs:complextype name="Manifest"></xs:complextype>
1749	<xs:sequence></xs:sequence>
1750	<xs:element name="NumberOfItems" type="xs:integer"></xs:element>
1751	<xs:element <="" name="ManifestItem" td="" type="ManifestItem"></xs:element>
1752	maxOccurs="unbounded"/>
1753	
1754	
1755	<xs:complextype name="ManifestItem"></xs:complextype>
1756	<xs:sequence></xs:sequence>
1757	<xs:element <="" name="MimeTypeQualifierCode" td=""></xs:element>
1758	type="MimeTypeQualifier"/>
1759	<xs:element name="UniformResourceIdentifier" type="xs:anyURI"></xs:element>
1760	<xs:element minoccurs="0" name="Description" type="xs:string"></xs:element>
1761	<xs:element minoccurs="0" name="LanguageCode" type="Language"></xs:element>
1762	
1763	
1764	
1765	
1766	

- 1767 A.5 StandardBusinessDocumentHeader.xsd
- 1768 1769 <?xml version="1.0"?> 1770 <xs:schema 1771 targetNamespace="http://www.unece.org/cefact/namespaces/StandardBusiness DocumentHeader" 1772 1773 xmlns="http://www.unece.org/cefact/namespaces/StandardBusinessDocumentH eader" xmlns:xs="http://www.w3.org/2001/XMLSchema" 1774 1775 elementFormDefault="gualified" attributeFormDefault="ungualified"> 1776 <xs:include schemaLocation="DocumentIdentification.xsd"/> <xs:include schemaLocation="Partner.xsd"/> 1777 1778 <xs:include schemaLocation="Manifest.xsd"/> 1779 <xs:include schemaLocation="BusinessScope.xsd"/> 1780 <xs:complexType name="StandardBusinessDocumentHeader"> 1781 <xs:sequence>

1782	<xs:element name="HeaderVersion" type="xs:string"></xs:element>
1783	<xs:element maxoccurs="unbounded" name="Sender" type="Partner"></xs:element>
1784	<xs:element maxoccurs="unbounded" name="Receiver" type="Partner"></xs:element>
1785	<xs:element name="DocumentIdentification" type="DocumentIdentification"></xs:element>
1786	<xs:element minoccurs="0" name="Manifest" type="Manifest"></xs:element>
1787	<xs:element <="" name="BusinessScope" td="" type="BusinessScope"></xs:element>
1788	minOccurs="0"/>
1789	
1790	
1791	<xs:element <="" name="StandardBusinessDocumentHeader" td=""></xs:element>
1792	type="StandardBusinessDocumentHeader"/>
1793	<xs:element <="" name="StandardBusinessDocument" td=""></xs:element>
1794	type="StandardBusinessDocument"/>
1795	<xs:complextype name="StandardBusinessDocument"></xs:complextype>
1796	<xs:sequence></xs:sequence>
1797	<xs:element minoccurs="0" ref="StandardBusinessDocumentHeader"></xs:element>
1798	<xs:any namespace="##other" processcontents="lax"></xs:any>
1799	
1800	
1801	
1802	
1803	

1804	A.6 P	artner.xsd	
1805			
1806	xml v</td <td>version="1.0"?></td> <td></td>	version="1.0"?>	
1807	<xs:sch< td=""><td>ema</td><td></td></xs:sch<>	ema	
1808	targetNa	<mark>amespace=</mark> "http://www.unece.org/cefact/namespaces/Standa	IrdBusiness
1809	Docume	entHeader"	
1810		'http://www.unece.org/cefact/namespaces/StandardBusinessI	DocumentH
1811		kmlns:xs="http://www.w3.org/2001/XMLSchema"	
1812		tFormDefault="qualified" attributeFormDefault="unqualified">	
1813	<xs:c< td=""><td>complexType name="Partner"></td><td></td></xs:c<>	complexType name="Partner">	
1814	< X	ks:sequence>	
1815		<xs:element name="Identifier" type="PartnerIdentification"></xs:element>	
1816		<xs:element <="" name="ContactInformation" td="" type="ContactInform</td><td>mation"></xs:element>	
1817		urs="0" maxOccurs="unbounded"/>	
1818		xs:sequence>	
1819		complexType>	
1820		complexType name="PartnerIdentification">	
1821	<x></x>	ks:simpleContent>	
1822		<xs:extension base="xs:string"></xs:extension>	
1823		<xs:attribute name="Authority" type="xs:string"></xs:attribute>	
1824			
1825		xs:simpleContent>	
1826	<td>complexType></td> <td></td>	complexType>	
		ACT – Standard Business Document Header Technical Specification	Page 62 of 81

1827 1828 1829 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839	<pre><xs:complextype name="ContactInformation"> <xs:sequence> <xs:element name="Contact" type="xs:string"></xs:element> <xs:element minoccurs="0" name="EmailAddress" type="xs:string"></xs:element> <xs:element minoccurs="0" name="FaxNumber" type="xs:string"></xs:element> <xs:element minoccurs="0" name="TelephoneNumber" type="xs:string"></xs:element> <xs:element minoccurs="0" name="ContactTypeIdentifier" type="xs:string"></xs:element> <xs:element <="" name="ContactTypeIdentifier" pre="" type="xs:string"></xs:element></xs:sequence></xs:complextype></pre>
1840 1841	A.7 Schemas for Use with Samples
1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857	A.7.1 Simulated Order.xsd for Use with Sample 2 xml version="1.0" encoding="UTF-8"? <xsd:schema <br="" targetnamespace="http://www.ean-ucc.org/schemas/1.3/eanucc">xmlns="http://www.ean-ucc.org/schemas/1.3/eanucc" xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="unqualified" attributeFormDefault="unqualified"> <xsd:element name="order" type="OrderType"></xsd:element> <xsd:element name="order" type="OrderType"></xsd:element> <xsd:sequence> <xsd:sequence> </xsd:sequence> </xsd:sequence> </xsd:schema>
1858 1859	A.7.2 Simulated OrderResponse.xsd for Use with Sample 2
1860	xml version="1.0" encoding="UTF-8"?

1860 <?xml version="1.0" encoding="01F-8"?>
1861 <xsd:schema targetNamespace="http://www.ean-ucc.org/schemas/1.3/eanucc"
1862 </pre>

- 1862 xmlns="http://www.ean-ucc.org/schemas/1.3/eanucc"
- 1863 xmlns:xsd="http://www.w3.org/2001/XMLSchema"
- 1864 elementFormDefault="unqualified" attributeFormDefault="unqualified">
- 1865 <xsd:element name="orderResponse" type="OrderResponseType"/>
- 1866 <xsd:complexType name="OrderResponseType">
- 1867 <xsd:sequence>
- 1868 <xsd:element name="orderResponseIdentification" type="xsd:string"/>

1869 1870 1871 1872 1873 1874 1875	rest of content model would go here
1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889	A.7.3 Simulated OrderProxy.xsd for Use with Sample 2 xml version="1.0"? <xs:schema <br="" targetnamespace="http://www.ean-ucc.org/schemas/1.3/eanucc">xmlns:unece="http://www.unece.org/cefact/namespaces/StandardBusinessDocu mentHeader" xmlns="http://www.ean-ucc.org/schemas/1.3/eanucc" xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified" attributeFormDefault="unqualified"> <xs:import namespace="http://www.unece.org/cefact/namespaces/StandardBusinessDocum entHeader" schemaLocation="StandardBusinessDocumentHeader.xsd"/> <xs:include schemalocation="Order.xsd"></xs:include> </xs:import </xs:schema>
1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904	A.7.4 Simulated OrderResponseProxy.xsd for Use with Sample 2 xml version="1.0"? <xs:schema <br="" targetnamespace="http://www.ean-ucc.org/schemas/1.3/eanucc">xmlns:unece="http://www.unece.org/cefact/namespaces/StandardBusinessDocu mentHeader" xmlns="http://www.ean-ucc.org/schemas/1.3/eanucc" xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified" attributeFormDefault="unqualified"> <xs:import namespace="http://www.unece.org/cefact/namespaces/StandardBusinessDocum entHeader" schemaLocation="StandardBusinessDocumentHeader.xsd"/> <xs:include schemalocation="OrderResponse.xsd"></xs:include> </xs:import </xs:schema>
1905	

- 1911 xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
- 1912 attributeFormDefault="unqualified">
- 1913 <xs:import
- 1914 namespace="http://www.unece.org/cefact/namespaces/StandardBusinessDocum
- 1915 entHeader" schemaLocation="StandardBusinessDocumentHeader.xsd"/>
- 1916 <xs:include schemaLocation="EDIOrder.xsd"/>
- 1917 </xs:schema>
- 1918

1919 A.7.6 Simulated EDIOrderProxy.xsd for Use with Sample 3

- 1920
- 1921 <?xml version="1.0"?>
- 1922 <xs:schema targetNamespace="http://www.edi-order.org/schemas"
- 1923 xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns="http://www.edi-
- 1924 order.org/schemas"
- 1925 xmlns:unece="http://www.unece.org/cefact/namespaces/StandardBusinessDocu
- 1926 mentHeader" elementFormDefault="qualified"
- 1927 attributeFormDefault="unqualified">
- 1928 <xs:import
- 1929 namespace="http://www.unece.org/cefact/namespaces/StandardBusinessDocum
- 1930 entHeader" schemaLocation="StandardBusinessDocumentHeader.xsd"/>
- 1931 <xs:include schemaLocation="EDIOrder.xsd"/>
- 1932 </xs:schema>
- 1933
- 1934

1935 Appendix B Sample XML Instance Files

1936

1937 NOTE: The sample XML instance files in Appendix B are Non-Normative and
1938 are for information only. These will be changed, and when published, will comply
1939 with the UN/CEFACT Naming and Design Rules and the UN/CEFACT UML to
1940 XML Transformation Rules, when available.

1942	B.1 Sample 1
1943	(see Table 3 in the Use Case examples)
1944	
1945	xml version="1.0" encoding="UTF-8"?
1946	<sh:standardbusinessdocumentheader< td=""></sh:standardbusinessdocumentheader<>
1947	xmlns:sh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumen
1948	tHeader" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1949	xsi:schemaLocation="http://www.unece.org/cefact/namespaces/StandardBusines
1950	sDocumentHeader StandardBusinessDocumentHeader.xsd">
1951	<sh:headerversion>1.0</sh:headerversion>
1952	<sh:sender></sh:sender>
1953	<sh:identifier authority="EAN.UCC">6903148000007</sh:identifier>
1954	<sh:contactinformation></sh:contactinformation>
1955	<sh:contact>Corporate Headquarters</sh:contact>
1956	
1957	<sh:emailaddress>Corporate_Headquarters@XYZretailer.com</sh:emailaddress>
1958	ess>
1959	<sh:faxnumber>+1-212-555-1212</sh:faxnumber>
1960	<sh:telephonenumber>+1-212-555-2121</sh:telephonenumber>
1961	<sh:contacttypeidentifier>Corporate</sh:contacttypeidentifier>
1962	Organization
1963	
1964	
1965	<sh:sender></sh:sender>
1966 1967	<sh:identifier authority="EAN.UCC">6903148000008</sh:identifier> <sh:contactinformation></sh:contactinformation>
1967	<sh:contact doe<="" john="" sh:contact=""></sh:contact>
1968	
1969	<sh:emailaddress>John Doe@purchasing.XYZretailer.com</sh:emailaddress>
1970	s>
1972	<sh:faxnumber>+1-212-555-1213</sh:faxnumber>
1973	<sh:telephonenumber>+1-212-555-2122</sh:telephonenumber>
1973	<sh:contacttypeidentifier>Buyer</sh:contacttypeidentifier>
1974	
1976	

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20482049 <sh:receiver>2050<sh:identifier authority="EAN.UCC">203148000007</sh:identifier>2051<sh:contactinformation>2052<sh:contact>Mary Smith</sh:contact>2053<sh:emailaddress>Mary_Smith@widgets.com</sh:emailaddress>2054<sh:faxnumber>+1-312-555-1214</sh:faxnumber>2055<sh:telephonenumber>+1-312-555-21252056<sh:contacttypeidentifier>Seller2057</sh:contacttypeidentifier></sh:telephonenumber></sh:contactinformation>2058</sh:receiver>
2049 <sh:receiver>2050<sh:identifier authority="EAN.UCC">203148000007</sh:identifier>2051<sh:contactinformation>2052<sh:contact>Mary Smith</sh:contact>2053<sh:emailaddress>Mary_Smith@widgets.com</sh:emailaddress>2054<sh:faxnumber>+1-312-555-1214</sh:faxnumber>2055<sh:telephonenumber>+1-312-555-21252056<sh:contacttypeidentifier>Seller2057</sh:contacttypeidentifier></sh:telephonenumber></sh:contactinformation>2058</sh:receiver>
2050 <sh:identifier authority="EAN.UCC">2203148000007</sh:identifier> 2051 <sh:contactinformation>2052<sh:contact>Mary Smith</sh:contact>2053<sh:emailaddress>Mary_Smith@widgets.com</sh:emailaddress>2054<sh:faxnumber>+1-312-555-1214</sh:faxnumber>2055<sh:telephonenumber>+1-312-555-2125</sh:telephonenumber>2056<sh:contacttypeidentifier>Seller2057</sh:contacttypeidentifier></sh:contactinformation> 2058
2051 <sh:contactinformation> 2052<sh:contact>Mary Smith</sh:contact> 20532053<sh:emailaddress>Mary_Smith@widgets.com</sh:emailaddress> 2054<sh:faxnumber>+1-312-555-1214</sh:faxnumber> 20552054<sh:faxnumber>+1-312-555-21252055<sh:telephonenumber>+1-312-555-21252056<sh:contacttypeidentifier>Seller2057</sh:contacttypeidentifier></sh:telephonenumber></sh:faxnumber></sh:contactinformation> 20582058
2052 <sh:contact>Mary Smith</sh:contact> 2053 <sh:emailaddress>Mary_Smith@widgets.com</sh:emailaddress> 2054 <sh:faxnumber>+1-312-555-1214</sh:faxnumber> 2055 <sh:telephonenumber>+1-312-555-2125</sh:telephonenumber> 2056 <sh:contacttypeidentifier>Seller</sh:contacttypeidentifier> 20572058
2053 <sh:emailaddress>Mary_Smith@widgets.com</sh:emailaddress> 2054 <sh:faxnumber>+1-312-555-1214</sh:faxnumber> 2055 <sh:telephonenumber>+1-312-555-2125</sh:telephonenumber> 2056 <sh:contacttypeidentifier>Seller</sh:contacttypeidentifier> 20572058
2054 <sh:faxnumber>+1-312-555-1214</sh:faxnumber> 2055 <sh:telephonenumber>+1-312-555-2125</sh:telephonenumber> 2056 <sh:contacttypeidentifier>Seller</sh:contacttypeidentifier> 20572058
2055 <sh:telephonenumber>+1-312-555-2125</sh:telephonenumber> 2056 <sh:contacttypeidentifier>Seller</sh:contacttypeidentifier> 20572058
2056 <sh:contacttypeidentifier>Seller</sh:contacttypeidentifier> 20572058
20572058
2058
00E0
2059 <sh:documentidentification></sh:documentidentification>
2060 <sh:standard>http://www.uc-council.org/smp/schemas/simpl- 2061 eb/Order</sh:standard>
2062 <sh:typeversion>1.3</sh:typeversion>
2063 <sh:instanceidentifier>100002</sh:instanceidentifier>
2064 <sh:type>order</sh:type>
2065 <sh:multipletype>false</sh:multipletype>
2066 <sh:creationdateandtime>2003-09-</sh:creationdateandtime>
2067 17T12:10:00Z

2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2080 2091 2092 2093 2094 2095 2096 2097 2098 2099 2090 2091 2095 2096 2097 2098 2090 2091 2092 2093 2094 2095 2096 2097 2098 2090 2091 2092 2093 2094 2095 2096 2097 2098 2090 2091 2092 2093 2094 2095 2096 2097 2098 2090 2091 2095 2096 2097 2098 2090 2091 2095 2096 2097 2098 2090 2091 2093 2094 2095 2096 2097 2098 2090 2091 2095 2096 2097 2098 2090 2091 2092 2093 2094 2095 2096 2097 2098 2090 2091 2095 2096 2097 2098 2090 2091 2095 2096 2097 2098 2090 2091 2092 2093 2094 2095 2096 2097 2098 2090 2091 2095 2096 2097 2098 2090 2091 2092 2093 2094 2095 2096 2097 2098 2090 2091 2095 2096 2097 2098 2090 2091 2092 2093 2094 2095 2096 2097 2098 2090 2091 2095 2096 2097 2098 2090 2091 2095 2096 2097 2098 2090 2097 2098 2090 2091 2095 2096 2097 2098 2090 2097 2098 2090 2097 2098 2090 2097 2098 2090 2097 2098 2090 2097 2098 2090 2097 2098 2090 2097 2098 2090 2007 2008 2090 2097 2098 2090 2009 2000 2007 2008 2009 20097 2009 2009 2000 2007 2008 2009 2009 2009 2000 2009 2000 2000	
2110 2111 2112	B.2.2 Sample 2b Responding Document (see Table 5 in the Use Case examples)
2113	

2114	xml version="1.0" encoding="UTF-8"?					
2115	<sh:standardbusinessdocument< td=""></sh:standardbusinessdocument<>					
2116	xmlns:sh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumen					
2117	tHeader" xmlns:eanucc="http://www.ean-ucc.org/schemas/1.3/eanucc"					
2118	xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"					
2119	xsi:schemaLocation="http://www.unece.org/cefact/namespaces/StandardBusines					
2120	sDocumentHeader OrderResponseProxy.xsd">					
2121	<sh:standardbusinessdocumentheader></sh:standardbusinessdocumentheader>					
2122	<sh:headerversion>1.0</sh:headerversion>					
2123	<sh:sender></sh:sender>					
2124	<sh:identifier authority="EAN.UCC">2203148000007</sh:identifier>					
2125	<sh:contactinformation></sh:contactinformation>					
2126	<sh:contact>Mary Smith</sh:contact>					
2127	<sh:emailaddress>Mary_Smith@widgets.com</sh:emailaddress>					
2128	<sh:faxnumber>+1-312-555-1214</sh:faxnumber>					
2129	<sh:telephonenumber>+1-312-555-2125</sh:telephonenumber>					
2130	<sh:contacttypeidentifier>Seller</sh:contacttypeidentifier>					
2131						
2132						
2133	<sh:receiver></sh:receiver>					
2134	<sh:identifier authority="EAN.UCC">6903148000007</sh:identifier>					
2135	<sh:contactinformation></sh:contactinformation>					
2136	<sh:contact>John Doe</sh:contact>					
2137						
2138	<sh:emailaddress>John_Doe@purchasing.XYZretailer.com</sh:emailaddress>					
2139	S>					
2140	<sh:faxnumber>+1-212-555-1213</sh:faxnumber>					
2141	<sh:telephonenumber>+1-212-555-2122</sh:telephonenumber>					
2142	<sh:contacttypeidentifier>Buyer</sh:contacttypeidentifier>					
2143						
2144						
2145	<sh:documentidentification></sh:documentidentification>					
2146	<sh:standard>http://www.uc-council.org/smp/schemas/simpl-</sh:standard>					
2147	eb/OrderResponse					
2148	<sh:typeversion>1.3</sh:typeversion>					
2149	<sh:instanceidentifier>550001</sh:instanceidentifier>					
2150	<sh:type>OrderResponse</sh:type>					
2151	<sh:multipletype>false</sh:multipletype>					
2152	<sh:creationdateandtime>2003-05-</sh:creationdateandtime>					
2153	09T00:31:52Z					
2154						
2155	<sh:businessscope></sh:businessscope>					
2156	<sh:scope></sh:scope>					
2157	<sh:type>BusinessProcess</sh:type>					
2158	<sh:instanceidentifier>Order-Sell/version2-</sh:instanceidentifier>					
2159	130					

2160	<sh:identifier>Contract Order-Sell</sh:identifier>
2161	<sh:businessservice></sh:businessservice>
2162	<sh:businessservicename>Order-</sh:businessservicename>
2163	Sell
2164	<sh:servicetransaction< td=""></sh:servicetransaction<>
2165	TypeOfServiceTransaction="RequestingServiceTransaction"
2166	IsAuthenticationRequired="true" IsNonRepudiationRequired="true"
2167	IsNonRepudiationOfReceiptRequired="true" IsIntelligibleCheckRequired="true"
2168	IsApplicationErrorResponseRequested="true"
2169	TimeToAcknowledgeReceipt="P12H" TimeToAcknowledgeAcceptance="P2D"
2170	TimeToPerform="P5D" Recurrence="3"/>
2171	
2172	<sh:correlationinformation></sh:correlationinformation>
2173	<sh:requestingdocumentcreationdatetime>2003-05-</sh:requestingdocumentcreationdatetime>
2174	02T00:31:52Z
2175	oz roo.o n.ozz v sm. requesting boodmentoreation bate nine>
2176	<sh:requestingdocumentinstanceidentifier>100002</sh:requestingdocumentinstanceidentifier>
2177	tInstanceIdentifier>
2178	<pre><sh:expectedresponsedatetime>2003-05-</sh:expectedresponsedatetime></pre>
2170	10T00:31:52Z
2173	
2180	
2182	<sh:scope></sh:scope>
2182	<sh:scope> <sh:type>BusinessProcess</sh:type></sh:scope>
2183	<sh:instanceidentifier>XYZ</sh:instanceidentifier>
2184	<sh:identifier>BP346</sh:identifier>
2185	<sh:AsYetUndefined >
2186	
2187	
2189	
2190	<eanucc:orderresponse></eanucc:orderresponse>
2191	arder Deeneneeldentification, E41024E000012, Jorder Deeneneeldentification
2192	<pre><orderresponseidentification>5412345000013</orderresponseidentification></pre>
2193	rest of order document goes here
2194	
2195 2196	
2197	
2198	
2100	
2199	B.3 Sample 3

- 2200 (see Table 6 in the Use Case examples)
 2201
 2202 <?xml version="1.0" encoding="UTF-8"?>
- 2203 <sh:StandardBusinessDocument
- 2204 xmlns:sh="http://www.unece.org/cefact/namespaces/StandardBusinessDocumen

2205 2206 2207 2208 2209 2210 2211	tHeader" xmlns:ediorder="http://www.edi-order.org/schemas" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.unece.org/cefact/namespaces/StandardBusines sDocumentHeader EDIOrderProxy.xsd"> <sh:standardbusinessdocumentheader> <sh:standardbusinessdocumentheader> <sh:headerversion>1.0</sh:headerversion> <sh:sender></sh:sender></sh:standardbusinessdocumentheader></sh:standardbusinessdocumentheader>
2212	<sh:identifier authority="EAN.UCC">2203148000007</sh:identifier>
2213	<sh:contactinformation></sh:contactinformation>
2214	<sh:contact>Mary Smith</sh:contact>
2215	<sh:emailaddress>Mary_Smith@widgets.com</sh:emailaddress>
2216	<sh:faxnumber>+1-312-555-1214</sh:faxnumber>
2217	<sh:telephonenumber>+1-312-555-2125</sh:telephonenumber>
2218	<sh:contacttypeidentifier>Seller</sh:contacttypeidentifier>
2219	
2220	
2221	<sh:receiver></sh:receiver>
2222	<sh:identifier authority="EAN.UCC">6903148000007</sh:identifier>
2223	<sh:contactinformation></sh:contactinformation>
2224	<sh:contact>John Doe</sh:contact>
2225	
2226	<sh:emailaddress>John_Doe@purchasing.XYZretailer.com</sh:emailaddress>
2227	S>
2228	<sh:faxnumber>+1-212-555-1213</sh:faxnumber>
2229	<sh:telephonenumber>+1-212-555-2122</sh:telephonenumber>
2230	<sh:contacttypeidentifier>Buyer</sh:contacttypeidentifier>
2231	
2232	
2233	<sh:documentidentification></sh:documentidentification>
2234	< <u>sh:Standard>http://www.uc-council.org/smp/schemas/simpl-</u>
2235	eb/OrderResponse
2236	<sh:typeversion>D:96A</sh:typeversion>
2237	<sh:instanceidentifier>100003</sh:instanceidentifier>
2238	<sh:type>ORDERS</sh:type>
2230	<sh:multipletype>false</sh:multipletype>
2239	<sh:creationdateandtime>2003-05-</sh:creationdateandtime>
2240	09T00:31:52Z
2241	
2243	<sh:businessscope></sh:businessscope>
2244	<sh:scope></sh:scope>
2245	<sh:type>BusinessProcess</sh:type>
2246	<sh:instanceidentifier>Order-Sell/version2-</sh:instanceidentifier>
2247	251
2248	<sh:identifier>EDI-Order-Sell</sh:identifier>
2249	<sh:businessservice></sh:businessservice>

2250 <sh:businessservicename> 2251 Sell</sh:businessservicename> 2252 <sh:servicetransaction< td=""> 2253 TypeOfServiceTransaction="RequestingServiceTransaction" 2254 IsAuthenticationRequired="true" IsNonRepudiationRequired="true" 2255 IsAuthenticationRequired="true" IsNonRepudiationRequired="true" 2256 IsApplicationErrorResponseRequested="true" 2257 TimeToAcknowledgeReceipt="P12H" TimeToAcknowledgeAcceptance="P2D" 2258 TimeToPerform="P5D" Recurrence="3"/> 2259 2260 <sh:businessservice> 2260 <sh:correlationinformation> 2261 <sh:requestingdocumentcreationdatetime>2003-05- 2262 <sh:requestingdocumentcreationdatetime> 2263 <sh:requestingdocumentinstanceidentifier>100002 <sh:requestingdocument< td=""> 2264 <sh:expectedresponsedatetime>2003-05- 2265 10T00:31:52Z <sh:expectedresponsedatetime>2003-05- 2266 <sh:expectedresponsedatetime>2003-05- 2267 10T00:31:52Z <sh:expectedresponsedatetime> 2268 2269 <sh:expectedresponsedatetime> 22</sh:expectedresponsedatetime></sh:expectedresponsedatetime></sh:expectedresponsedatetime></sh:expectedresponsedatetime></sh:expectedresponsedatetime></sh:requestingdocument<></sh:requestingdocumentinstanceidentifier></sh:requestingdocumentcreationdatetime></sh:requestingdocumentcreationdatetime></sh:correlationinformation></sh:businessservice></sh:servicetransaction<>
 252 <a 2255isnonrepudiationofreceiptrequired="true" 2256isapplicationerrorresponserequested="true" 2257timetoacknowledgereceipt="P12H" 2258timetoperform="P5D" href="https://www.science.com/science.</td></tr><tr><td>2253TypeOfServiceTransaction=" isintelligiblecheckrequired="true" isnonrepudiationrequired="true" recurrence="3" requestingservicetransaction"2254isauthenticationrequired="true" timetoacknowledgeacceptance="P2D">22592260<sh:businessservice>2260<sh:correlationinformation>2261<sh:requestingdocumentcreationdatetime>2003-05-226202T00:31:52Z2264<sh:requestingdocumentinstanceidentifier>1000022265tInstanceIdentifier>2266<sh:expectedresponsedatetime>2003-05-226710T00:31:52Z2268<sh:expectedresponsedatetime>2003-05-</sh:expectedresponsedatetime></sh:expectedresponsedatetime></sh:requestingdocumentinstanceidentifier></sh:requestingdocumentcreationdatetime></sh:correlationinformation></sh:businessservice>
2254IsAuthenticationRequired="true"IsNonRepudiationRequired="true"2255IsNonRepudiationOfReceiptRequired="true"IsIntelligibleCheckRequired="true"2256IsApplicationErrorResponseRequested="true"2257TimeToAcknowledgeReceipt="P12H" TimeToAcknowledgeAcceptance="P2D"2258TimeToPerform="P5D" Recurrence="3"/>22592260 <sh:businessservice>2260<sh:correlationinformation>2261<sh:requestingdocumentcreationdatetime>2003-05-226202T00:31:52Z</sh:requestingdocumentcreationdatetime>2263<sh:requestingdocumentinstanceidentifier>1000022264<sh:requestingdocumentinstanceidentifier>1000022265<sh:expectedresponsedatetime>2003-05-2266<sh:expectedresponsedatetime>2003-05-226710T00:31:52Z</sh:expectedresponsedatetime>2268<sh:correlationinformation></sh:correlationinformation></sh:expectedresponsedatetime></sh:requestingdocumentinstanceidentifier></sh:requestingdocumentinstanceidentifier></sh:correlationinformation></sh:businessservice>
2255IsNonRepudiationOfReceiptRequired="true" IsIntelligibleCheckRequired="true"2256IsApplicationErrorResponseRequested="true"2257TimeToAcknowledgeReceipt="P12H" TimeToAcknowledgeAcceptance="P2D"2258TimeToPerform="P5D" Recurrence="3"/>22592260 <sh:correlationinformation>2261<sh:requestingdocumentcreationdatetime>2003-05-226202T00:31:52Z</sh:requestingdocumentcreationdatetime>2263<sh:requestingdocumentinstanceidentifier>1000022264<sh:expectedresponsedatetime>2003-05-2265<sh:expectedresponsedatetime>2003-05-2266<sh:expectedresponsedatetime>2003-05-226710T00:31:52Z</sh:expectedresponsedatetime>2268</sh:expectedresponsedatetime></sh:expectedresponsedatetime></sh:requestingdocumentinstanceidentifier></sh:correlationinformation>
2256 IsApplicationErrorResponseRequested="true" TimeToAcknowledgeReceipt="P12H" TimeToAcknowledgeAcceptance="P2D" TimeToPerform="P5D" Recurrence="3"/> 2259 (sh:BusinessService> 2260 (sh:CorrelationInformation> 2261 (sh:RequestingDocumentCreationDateTime>2003-05- 02T00:31:52Z(sh:RequestingDocumentCreationDateTime> 2263 (sh:RequestingDocumentCreationDateTime> 2264 (sh:RequestingDocumentInstanceIdentifier>100002(sh:RequestingDocument 2265 tInstanceIdentifier> 2266 (sh:ExpectedResponseDateTime>2003-05- 10T00:31:52Z(sh:ExpectedResponseDateTime>2003-05- 2268 (sh:CorrelationInformation>
2257TimeToAcknowledgeReceipt="P12H" TimeToAcknowledgeAcceptance="P2D"2258TimeToPerform="P5D" Recurrence="3"/>22592260 <sh:correlationinformation>2261<sh:requestingdocumentcreationdatetime>2003-05-226202T00:31:52Z</sh:requestingdocumentcreationdatetime>2263<sh:requestingdocumentinstanceidentifier>1000022264<sh:requestingdocumentinstanceidentifier>1000022265<sh:expectedresponsedatetime>2003-05-2266<sh:expectedresponsedatetime>2003-05-226710T00:31:52Z2268</sh:expectedresponsedatetime></sh:expectedresponsedatetime></sh:requestingdocumentinstanceidentifier></sh:requestingdocumentinstanceidentifier></sh:correlationinformation>
2258TimeToPerform="P5D" Recurrence="3"/>22592260 <sh:correlationinformation>2261<sh:requestingdocumentcreationdatetime>2003-05-226202T00:31:52Z</sh:requestingdocumentcreationdatetime>2263<sh:requestingdocumentinstanceidentifier>1000022264<sh:requestingdocumentinstanceidentifier>1000022265tInstanceIdentifier>2266<sh:expectedresponsedatetime>2003-05-226710T00:31:52Z2268</sh:expectedresponsedatetime></sh:requestingdocumentinstanceidentifier></sh:requestingdocumentinstanceidentifier></sh:correlationinformation>
 2259 2260 2261 2261 2262 02T00:31:52Z 2263 2264 2264 2265 tlnstanceldentifier> 2266 2266 2266 2267 10T00:31:52Z 2268 2268 2268 2269 2269 2260 2260 2260 2260 2261 2262 2263 2264 2265 2267 2268 226
 2260 <sh:correlationinformation></sh:correlationinformation> 2261 <sh:requestingdocumentcreationdatetime>2003-05-</sh:requestingdocumentcreationdatetime> 02T00:31:52Z 2263 2264 <sh:requestingdocumentinstanceidentifier>100002 2265 tInstanceIdentifier> 2266 <sh:expectedresponsedatetime>2003-05-</sh:expectedresponsedatetime> 2267 10T00:31:52Z 2268 <sh:correlationinformation></sh:correlationinformation> </sh:requestingdocumentinstanceidentifier>
2261 <sh:requestingdocumentcreationdatetime>2003-05-226202T00:31:52Z</sh:requestingdocumentcreationdatetime> 2263 <sh:requestingdocumentinstanceidentifier>1000022264<sh:requestingdocumentinstanceidentifier>1000022265tInstanceIdentifier>2266<sh:expectedresponsedatetime>2003-05-226710T00:31:52Z</sh:expectedresponsedatetime>2268</sh:requestingdocumentinstanceidentifier></sh:requestingdocumentinstanceidentifier>
226202T00:31:52Z2263 <sh:requestingdocumentinstanceidentifier>1000022265tInstanceIdentifier>2266<sh:expectedresponsedatetime>2003-05-226710T00:31:52Z</sh:expectedresponsedatetime>2268</sh:requestingdocumentinstanceidentifier>
 2263 2264 <sh:requestingdocumentinstanceidentifier>100002 2265 tInstanceIdentifier> 2266 <sh:expectedresponsedatetime>2003-05-</sh:expectedresponsedatetime> 2267 10T00:31:52Z 2268 </sh:requestingdocumentinstanceidentifier>
 2264 <sh:requestingdocumentinstanceidentifier>100002 2265 tInstanceIdentifier> 2266 <sh:expectedresponsedatetime>2003-05-</sh:expectedresponsedatetime> 2267 10T00:31:52Z 2268 </sh:requestingdocumentinstanceidentifier>
2265tInstanceIdentifier>2266 <sh:expectedresponsedatetime>2003-05-226710T00:31:52Z</sh:expectedresponsedatetime> 2268
2266 <sh:expectedresponsedatetime>2003-05-226710T00:31:52Z</sh:expectedresponsedatetime> 2268
2267 10T00:31:52Z 2268
2268
2269
2270
2271
2272 <ediorder:order></ediorder:order>
2273
2274 UNB+UNOA:3+6907777000001:14+6903148000007:14+030608:2206+811'
2275 UNH+1+ORDERS:D:96A:UN'
2276
2277 UNT+37+5'
2278 UNZ+5+811'
2279
2280
2281

Scenarions

Interactions

Basic workflows

Transactions

Speach Act Messages

Concepts from

thesaurus

Appendix C Theory Behind the SBDH Business Scope 2282

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2284 Information about a Business Process specifies the scope or context of a single 2285 message exchange, however there are other types of *governing scopes* and 2286 contexts. Examples are TPA, economic contracts, technical agreements, and 2287 transaction specification. They are all governing message exchanges and are 2288 relevant to processing, parsing, translation, and routing etc. The following 2289 generalized header meta model provides for other types of business scopes and 2290 contexts which have business relevance to the sender and receiver.

Cultural pattern

Self-Concept

Relationship

Episode

Speach Act

- 2291 2292 From a philosophical and
- 2293 theoretical point of view, scope
- 2294 and context are commonly
- 2295 occurring. In order to interpret
- 2296 and process a message it is 2297 important to know in which
- 2298 business scope or context a
- 2299 business dialog is being conducted.

Figure C.1.

From theory of Coordinated Management Meaning

Content

2304 The business scopes and contexts often form natural hierarchies such as 2305 depicted in the diagram below. Often an exchange of words or business 2306 information, in the world of e-business, is conducted within several contexts: 2307

- Within supply chains there may be business processes;
- within a process there may be several dialogs or collaborations;
- within a collaboration there may be sub collaborations;
- within a collaboration there may be multiple transactions;
- within a transaction there may be messages and signals being transmitted; •
- within a message exchange there may be resending, reliability signals etc. •

2314 Apart from behavioural and state scopes there are other types of governing 2315 scopes and contexts in which an exchange of words, messages, documents or 2316 business information may be conducted. Agreements and contracts provide legal 2317 governance of information exchanges in order to satisfy the goals of business 2318 relationships.

2319 An example: In order to fulfil a commitment to deliver goods, a business dialog 2320 or collaboration must be defined and agreed upon. Since the parties already 2321 have been engaged in electronic collaborations over an existing communication 2322 channel. they may decide to reuse an existing Trading Partner Agreement, its 2323 general provisions and technical details. Furthermore a generic business level 2324 agreement may specify that all deliveries of a certain kind must or should be 2325 made to a specific factory.

2327 It is unrealistic to prescribe that all governing details must be accessible from a 2328 single specification document, including all business and technical properties. 2329 This vision involves unnecessary bindings between the business perspective and 2330 technical details. If a delivery location is changed it should not cause a TPA to be 2331 renegotiated and agreed and vice versa.

2332

2333 Therefore a general and federated model based on dependencies is preferable.

2334



2338

2339 C.1 The Commonly Occurring Perspectives of Business Scope

2340

2341 There are 3 commonly occurring perspectives of scope and contexts:

- 2342
- 2343 1. Protocol:

2344 When exchanging business information and documents, only the lowest level, 2345 smallest, innermost scope is needed or required. All upper level, governing 2346 parent scopes are accessed implicitly through knowledge of previously 2347 exchanged information and specifications. This view corresponds to a protocol 2348 stack where knowledge about upper layers should (must) not be required 2349 explicitly.

- 2350
- 2351 2. All scopes must be specified:

2352 In order to successfully and deterministically process an exchange of business

2353 information all governing scopes must be available in every exchange.

2355 3. Interest based:

2356 Only the scope information that the parties agree to or the parties deem 2357 interesting should be exchanged.

2358

2359 Information about a particular perspective may be specified in a Profile. (see 2360 optional parts below)

2361 C.2 Meta model

2362

The meta model adds simple yet dynamic scoping to the header construct: The model specifies a directed acyclic graph (DAG) of governing scopes and contexts that covers a large set of frequently occurring business cases.

2366

2367 This meta model of scope and context specification allows for great flexibility for

business partners to use in ways we today cannot foresee. Yet it is predictable, composable and deterministic.

2370



2371 2372

2377

2378

2379

- 2373 BusinessScope contains [1..1] [2374
- 2375 **Scope** consists of [1..*] [

2376 **ScopeType**:String [1..1] - type of scope:

Examples are UN/CEFACT Transaction, BCF:BusinessCollaboration, BusinessProcess, ebXML:BusinessService, BusinessServiceAction, BCF:AuthorizedRole

2380
2381 **Typeldentifier**: String[0..1] – optional unique identifier that references the type of governing scope (e.g. process model, document specification).
2383 Example; "bpss:dropship"

2384
2385 InstanceIdentifierType: String [0..1] – identifiers the type of instance
2386 identifier. Examples: URL, GUID, ID, IdentifierString;

InstanceIdentifier: String [0..1] – unique identifier that references the
 instance of that scope (e.g. process execution instance, document instance)
 Example; "bpss:dropship:id-abcd123"

2391 2392 2393 2394 2395	to the (governing) sc	ope. In ord	ignRef [01] – a optional signature reference ler to provide additional security a signature g scope may be defined.		
2396	GovernedBy contains [0*] [
2397	ParentInstanceIdentifier :String [11] - optional Most of the time				
2398	•	0	ernance hierarchy and often a message		
2399	0 0		ore than one parent agreement. This		
2400	element reference	es another	Scopes InstanceIdentifier.		
2401]				
2402]				
2403					
	BusinessScope		BusinessScope		
	Scope Batter Scope Scope Scope Scope	OR	governedBy governedBy Scope Scope Scope Scope		

2405 C.3 Wellformedness rules

2406

[1] It is not mandatory to put all intermediary scopes in a generic header. Only
those that the parties agree to are needed. The following examples are all
relevant: [transaction], [transaction, business process], [business process],
[transaction, collaboration, business process].

- 2411
- 2412 [2] A Profile may be used to group wf-rules together.
- 2413

2414 [3] The generic meta model specifies that cycles must not be present, i.e. by

following the GovernedBy relationship one must not return to the same scope.

2416 C.4 Optional parts

2417

[1] An addition to above meta model: It is to possible add extra properties that
contain additional information about the scope and context. This information is
most likely to be redundant but may be used to control and verify state

synchronization. If the Scope is modelled using UML or similar modelling

2422 language then additional properties may be captured in subclasses to Scope.

2423

2424 [2] It possible to add a Profile concept to Business Scope wellformedness rules

2425 so that various combinations of mandatory ScopeType requirements may be

- grouped together. A profile is an expression of a particular perspective ofBusiness Scope.
- 2428

[3] It is possibility to add an extra property to the Governance element whichspecifies that the parent and child lifecycles are related and that when a parentends its lifecycle the child also end its lifecycle.

2432

[4] It is possible to add an information element in the GovernedBy element in
order to indicate governance details. An example is an element that defines
superiority rules regulating overlapping rules in child scope versus parent
governing scope.

2437

2438 [5] The generic meta model specifies that cycles must not be present, i.e. by

- following the GovernedBy relationship one must not return to the same scope.
- This restriction may be relaxed by adding above Superiority rule and allowing cycles.

2442 C.5 NOTES

2443

[1] The parent child relationship between scopes is not the same as a lifecycle
relationship. When a parent scope ends the child scope may still be active.
However in many use cases the scope relationship is linked to lifecycles but in
this generic meta model this dependency is implicit.

2448

[2] Several methods may be use to identify scopes: Global identifiers (GUID, ...), relative identifiers (role name sequence number, local name, ..)

2451

[3] In many type of specifications, business rules in a parent scope determine
processing rules of child scopes. Dynamic composition of specification and the
usage of business context such as in Core Component make it difficult to extract
information from one source, one specification document in order to determine
the final set of processing rules.

2457

[4] In the future TPA, Contracts and technical agreements should be added asgoverning scopes when defined within UBAC project.

2460

[5] It is also possible have a Role-Party as a scope type. Could be used toindicate role reversal.

2463

[6] Business processes are important to organization but most business systemsdon't keep track of them explicitly.

2467 [7] Processing nodes between the sender and receiver may add and remove

- scopes at the lowest lever without disturbing higher level governing parent
- 2469 scopes. An example is a communication service that adds transport specific

- 2470 scopes before forwarding messages to lower lever transports and removes it
- 2471 when forwarding messages to upper lever business data receiver application.

Appendix D Relationship Between the SBDH and Other Standards

Cross-Section of Areas of Potential Interest between SBDH and other UN/CEFACT and ebXML Standards

		Boundaries	Integration Points	Dependencies
AS2	Near-Term	SBDH supplements AS2 technology	SBDH integrates only at the Communication Software Application level	AS2 utilizes the SBDH for routing
	Long-Term	SBDH will continue to supplement AS2 technology	SBDH will continue to integrate at the Communication Software Application level	AS2 will continue to utilize the SBDH for routing
ATG NDR	Near-Term	SBDH follows its own syntax Naming and Design Rules		
	Long-Term	SBDH syntax will be subsumed by ATG Naming and Design Rules		SBDH is dependent upon the ATG Naming and Design Rules for interoperability
BPSS	Near-Term	SBDH will supplement BPSS technology	SBDH integrates at the Parser/Translator or Middleware level	BPSS is not dependent upon some generic header technology but may optionally use it
	Long-Term	SBDH will supplement or be subsumed by BPSS technology	SBDH will continue to integrate at the Parser/Translator or Middleware level	BPSS is not dependent upon some generic header technology but may optionally use it
ebMS	Near-Term	SBDH may supplement ebMS technology	SBDH integrates at the Communication Software Application level	ebMS is not dependent upon some generic header technology but may optionally use it
	Long-Term	SBDH may supplement ebMS technology	SBDH will integrate at the Communication Software Application level	

EDI	Near-Term	SBDH will supplement EDI technology	SBDH will integrate at the Parser/Translator or Middleware Application level	EDI is not dependent upon some generic header technology but may optionally use it, especially for Service Information and Correlation Information
	Long-Term	SBDH will supplement EDI technology	SBDH will continue to integrate at the Parser/Translator or Middleware Application level	EDI is not dependent upon some generic header technology but may optionally use it, especially for Service Information and Correlation Information
UBAC	Near-Term	SBDH will supplement or be subsumed by UBAC specifications	SBDH will integrate at the Business Transaction View and Business Service View levels	UBAC is dependent upon some generic header technology such as the SBDH
	Long-Term	To be determined	To be determined	If another technology becomes available, UBAC could use the new technology or the SBDH
UMM	Near-Term	SBDH will supplement UMM	SBDH will integrate at the Business Transaction View and Business Service View levels	SBDH is dependent upon the UMM meta- model
	Long-Term	To be determined	To be determined	SBDH continues to be is dependent upon the UMM meta-model