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- 15 This Technical Report document has been approved by the Core Component Project
- 16 Team and has been accepted by the ebXML Plenary.17
- 18 This document contains foundation material based on ebXML Technical Specifications
- 19 or Reports.
- 20
- 21 The document formatting is based on the Internet Society's Standard RFC format.
- 22 Distribution of this document is unlimited.
- 23
- 24 This version:
- 25 www.ebxml.org/specs/ccDRIV.pdf

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Catalogue of Context Drivers

84 **4** Introduction

85 **4.1 Summary of Contents of Document**

- 86 This document provides a catalogue of context drivers, which have been discovered to-
- 87 date by the Core Component project team. These are not definitive, and nor do they
- 88 represent a final complete list. This document should be read in conjunction with the
- 89 document ebXML TR Context and Re-Usability of Core Components Ver 1.04.
- 90
- 91 The keywords MUST, MUST NOT, REQUIRED, SHALL, SHALL NOT, SHOULD,
- 92 SHOULD NOT, RECOMMENDED, MAY, and OPTIONAL, when they appear in this
- document, are to be interpreted as described in RFC 2119.

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94 **5 Context Classifications**

95 **5.1 List of discovered Context Drivers**

96 A large number of different context descriptors have been considered as part of the 97 ebXML analysis effort, some of which were selected for full inclusion and definition. 98 99 This approach defines component re-use within business documents and now requires that some implementation take place before final decisions can be made regarding the 100 101 value of all of these descriptors. It is intended that the thinking around possible 102 descriptors not be discarded until their worth can better be judged. 103 104 • Region (*Geopolitical*) 105 • Industry 106 Business Process 107 • Product 108 • Official Constraints • Role 109 110 • Temporal 111 Information Structural Context 112 • Application Processing • Service Level 113 Business Purpose 114 115 • Virtual Marketplace 116 • Contractual 117

118 **5.2 Classifications**

The following context classifications are the ones recommended by the ebXML Core Components Project Team. It has been recognized that other classification schemes may be needed, and that it will be possible to reference other classification schemes for any of the identified context descriptors.

124 5.3 Business Process Context

The Business Process context relies on a classification based on the list of core business processes, but contains some additional information. It will be possible to indicate that some minor variations have been made to an existing core process; that a process not in the core is being used; or that an extension may be made at any level of the classification, to accommodate existing business processes.

- 130
- 131 Further, to be used meaningfully in qualifying variation within information entity
- 132 structure, business process context descriptors may need to go to a finer level of detail
- than merely specifying the overall business process of which they are a part. This is

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especially true where both trading partners may be adding information to a single

135 functional aggregate at different points in the business process, and the optionality of that

136 information is being determined by where in the process the information entity is used.

137 (An example of these concepts can be found in ebXML TR – Core Component Discovery

- 138 and Analysis Ver 1.04.)
- 139

140 The requirement to identify a particular event in the overall business process is

141 complicated by the fact that there may be many players involved in a single business 142 process, and even in a single "leg" of the overall exchange. This occurs when one or both 143 trading partners have agents, as is often the case in payments processing where the 144 trading partner's banks are involved in the exchange, and providing services to facilitate 145 the overall business process. The existence of a portal - where a wide range of "en route" 146 services may be provided - further complicates the issue.

147

148 **5.4 Regional Context**

149 **5.4.1 Regional classification**

150 The regional classification allows one or more values to be associated with any business 151 message or component, according to the following structure.

152 153 G

155

156

- 153 Global 154 [C
 - [Continent]
 - [Economic Region]
 - [Country] ISO 3166.1
- 157 [Region] ISO 3166.2

There is no single hierarchy. At any level of the hierarchy, a value may be a single value,
a named aggregate, or cross-border value. These values are structured as follows:

- Single Value: A single value as shown in the example shown in the next section,
 indicating a single continent, economic region, country, or region, depending on
 position within the hierarchy.
- Named Aggregate: A related group of values (which may themselves be named aggregates or cross-border constructions), which have been related and assigned a name. A named aggregate contains at least two values.
- 168

164

- 169 Cross-Border: One or more pairs of values, designated "To", "From", or "Bi 170 directional", indicating the direction of cross-border context. Values may be named
 171 aggregates or single values.
- 172173 Points in the hierarchy are specified by the use of the node value, or by the full or partial
- 174 path. There are cases where the full path is required to understand the hierarchy, as a
- result of the use of the more complex constructs. A single-point specification is
- 176 understood to inherit all of the properties of the single-value hierarchy except where
- 177 otherwise specified.
- 178

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179 5.4.2 *List of Values*

- 180 The following example shows an extract of the basic, single-value hierarchy of
- 181 recommended values, based on the common ISO 3166 Country Codes.
- 182 Europe
- 183 Eastern Europe
- AL ALBANIA 184
- AM ARMENIA 185 etc.
- 186
- 187

5.5 Official Constraints Context 188

- 189 The official constraints context driver describes data use contexts, which are the result of 190 standards, legal or regulatory requirements, contractual or business agreements, and 191 similar "official" drivers. This classification is outlined as follows:
- 192
- 193 Regulatory And Legislative (includes customs) •
- 194 Standards (includes ISO, Milspecs, etc.)
- 195 Guidelines (best practices, unofficial standards) •
- 196 Conventions And Treaties (these are different from Regulatory and Legislative) •
- 197 Contractual And Trading Partner Agreement 198
- 199 This classification shall be structured as either:
- 200 A free-text field with a qualifying text field to put in "schema" or reference describing • 201 what is contained in the text field (legal reference system, for example).
- 202 • A free text "code" field with the ability to reference the source.
- 203

204 5.6 Product Context

- 205 The goods or services that the exchange of information describes or enables, e.g. the 206 subject of the transaction, or the set of things that is being described.
- 207

5.6.1 Sources for Recommended Classifications 208

- 209 • United Nations Standard Product and Service Code (UN/SPSC) 210 Custodian: United Nations
- Standard International Trade Classification (SITC Rev .3) 211 212 Custodian: United Nations Statistics Division (UNSD)
- 213 • The "Harmonized Commodity Description and Coding System" (HS) 214 Custodian: WTO
- 215 Classification Of the purposes of non Profit Institutions serving households (COPI) 216 Custodian: UNSD (This provides a mapping between the first three.)
- 217 218 5.6.2 Structure
- 219 Context rules may be associated with each structure level, and more than one value may
- 220 be specified for defining the use of a particular information entity.
- 221

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222 223

5.7 Industry Context

The industry or sub-industry in which the information exchange takes place. An Industry
is an organisation or group of organisations involved in service, commercial or
institutional activity.

225 226

227 5.7.1 Sources for Recommended Classifications

- International Standard Industrial Classification (ISIC)
 Custodian: UNSD
- United Nations Standard Product and Service Code (UN/SPSC)
 Custodian: United Nations
 (Top-level Segment (digits 1 and 2) used to define industry.)
- 233

234 5.7.2 Structure

Hierarchical structure as defined by existing standard. Context rules may be associated
with each structure level, and more than a single value may be specified when describing
the use of an information entity.

238

239 5.8 Role Context

Roles: Roles specify the party types (buyer, seller, assembler, catalogue publisher, etc.)
that interactively perform interface activities that collaboratively achieve a business
objective.

243

Role Types: The ebXML Business Process Methodology Guidelines, which is a
specialization of the UN/CEFACT Unified Modelling Methodology (UMM), specifies
that roles must be one of the following role types:

247

260

248**Organisational:** As the name implies, the "Organisational" role is for playing the249role of an "organization" such as an enterprise, a company, or a factory to cite a250few examples. Only an organization performs a particular role in an e-business251process. An employee does not perform these activities. Authorization to perform252an activity is granted at an organizational level.

Employee: The "Employee" role is used in business interactions that are
performed by employees of an organization. An employee for business/legal
reasons can only perform an employee role. Usually the details of the employee
must be captured and stored/transmitted to another partner for auditing/liability
processes when the two partner roles are not in the same organization.
Authorization to perform an activity is granted on an employee level.

Functional: The "Functional" role is for the cases when either an employee or an
organization can perform the interaction. So the functional role can be either an
organizational or an employee role.

.

- 265 Initiator: The "Initiator" is the role that initiates the business process and
 266 contains the start state and initial activity.
 267
- Responder: The "Responder" is the role that interacts with the initiator in a
 business process and commercial transaction.

270271 5.8.1 Sources for Recommended Classifications

- 272 Code List 3035 (UN/EDIFACT)
- 273

274 Data Element 98 (X12)

275

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Registry Support for Taxonomies 276 6

6.1 Set of Data required to be published 277

278 The Registry Metamodel supports the requirement of attaching an arbitrary number of 279

Classification Nodes to any Registered Entry. This is achieved by means of a

280 Classification, which can be associated with a Registered Entry; each instance of the Classification identifies a Classification Node. The top-level node in the Classification 281

282 Node tree can identify the type of classification (e.g. Geography) by means of its name. If

283 this name does not give the unambiguous context within which the Registered Entry is

284 classified then the Classification may optionally be associated with another Classification

Node that provides the context for the Classification (e.g. Located In). 285

286

287 The Classification Node is in itself a Registered Entry and by this means benefits from

- 288 the versioning facility of the Registry.
- 289

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290 7 Context-controlled Core Component Metamodel



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292 8 Disclaimer

293 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 employers specifically

disclaim responsibility for any problems arising from correct or incorrect implementation or use of this design

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