

ISO/IEC 19988:2024-03 (E)

Information technology - GS1 Core Business Vocabulary (CBV)

Contents

Page

- 1 Introduction – Core Business Vocabulary..... 1**
- 2 Relationship to the GS1 System Architecture 2**
- 3 Relationship to EPCIS..... 2**
 - 3.1 EPCIS event structure 2
 - 3.2 Overview of EPCIS event "dimensions" (non-normative) 4
 - 3.3 Vocabulary kinds 6
 - 3.3.1 Standard Vocabulary 7
 - 3.3.2 User Vocabulary 7
- 4 Terminology and typographical conventions 8**
- 5 Compliance and compatibility 8**
 - 5.1 CBV-Compliant 9
 - 5.2 CBV-Compatible 11
- 6 Use of Uniform Resource Identifiers (URIs) 12**
 - 6.1 URI prefix for Standard Vocabularies in the CBV 12
 - 6.2 Limitation on Use of the epcglobal URN prefix 12
 - 6.2.1 Example of limitation of use of epcglobal URN prefix (non-normative) 12
- 7 Standard Vocabularies 13**
 - 7.1 Business steps 13
 - 7.1.1 URI structure 13
 - 7.1.2 Compliant usage 13
 - 7.1.3 Business step values and definitions 14
 - 7.2 Dispositions 20
 - 7.2.1 URI structure 20
 - 7.2.2 Compliant usage 21
 - 7.2.3 Disposition values and definitions 21
 - 7.3 Business Transaction Types 27
 - 7.3.1 URI structure 27
 - 7.3.2 Compliant usage 27
 - 7.3.3 Business Transaction values and definitions 27
 - 7.4 Source/Destination types 28
 - 7.4.1 URI structure 28
 - 7.4.2 Compliant usage 29
 - 7.4.3 Source/Destination Type values and definitions 29
 - 7.5 Error reason identifiers 29
 - 7.5.1 URI structure 29
 - 7.5.2 Compliant usage 30
 - 7.5.3 Error reason identifier values and definitions 30
 - 7.6 Sensor measurement types 30
 - 7.6.1 URI structure 30

7.6.2	Compliant usage.....	31
7.6.3	Sensor measurement type values and definitions	31
7.7	Sensor alert types.....	35
7.7.1	URI structure	35
7.7.2	Compliant usage.....	35
7.7.3	Sensor alert type values and definitions	35
7.8	Sensor report component type.....	36
7.8.1	URI structure	36
7.8.2	Compliant usage.....	36
7.8.3	Sensor report component types and definitions	36

8 User vocabularies..... 38

8.1	General considerations and syntax forms	38
8.1.1	EPC URI	39
8.1.2	GS1 Digital Link URI	39
8.1.3	Private or Industry-wide URN	39
8.1.4	HTTP or HTTPS URL	40
8.2	Physical or digital objects (Instance-Level Identification)	41
8.2.1	EPC URI for Instance-level identification of objects	42
8.2.2	GS1 Digital Link URIs for Instance-level identification of objects	42
8.2.3	Private or Industry-wide URN for Instance-level identification of objects	43
8.2.4	HTTP or HTTPS URLs for Instance-level identification of objects	44
8.3	Physical or digital objects (Class-level identification)	45
8.3.1	EPC URI for Class-level identification of objects.....	45
8.3.2	GS1 Digital Link URIs for Class-level identification of objects.....	46
8.3.3	Private or Industry-wide URN for Class-level identification of objects.....	47
8.3.4	HTTP or HTTPS URLs for Class-level identification of objects.....	47
8.4	Locations.....	48
8.4.1	EPC URI for Location identification.....	49
8.4.2	GS1 Digital Link URIs for Location identification	49
8.4.3	Private or Industry-wide URN for Location identification.....	49
8.4.4	HTTP or HTTPS URLs for Location identification	50
8.4.5	Geographic Location URIs for Location identifiers.....	50
8.5	Business transactions	51
8.5.1	EPC URI for Business transaction identifiers.....	51
8.5.2	GS1 Digital Link URIs for business transaction identification.....	52
8.5.3	GLN-based identifier for legacy system business transaction identifiers.....	52
8.5.4	Private or Industry-wide URN for business transaction identifiers	52
8.5.5	HTTP or HTTPS URLs for business transaction identifiers.....	53
8.6	Hash URI for business transaction identifiers.....	54
8.7	Source/Destination identifiers	55
8.7.1	EPC URI for Source/Destination identifiers.....	55
8.7.2	GS1 Digital Link URIs for Source/Destination identification.....	55
8.7.3	Private or Industry-wide URN for Source/Destination identifiers.....	56
8.7.4	HTTP or HTTPS URLs for Source/Destination identification	56
8.8	Transformation identifiers	57
8.8.1	EPC URI for Transformation identifiers	57
8.8.2	GS1 Digital Link URIs for Transformation identification.....	57
8.8.3	GLN-based Identifier for Legacy System Transformation identifiers	57
8.8.4	Private or Industry-wide URN for Transformation identifiers	58
8.8.5	HTTP or HTTPS URLs for Transformation identification.....	58
8.9	Event identifiers	59
8.9.1	Universally Unique Identifier (UUID) URIs for Event identification	60
8.9.2	EPCIS Event Hash ID	60
8.10	Chemical substance identifiers	63
8.10.1	InChI (International Chemical Identifier) Key URI.....	64

8.11	Microorganism identifiers	64
8.11.1	NCBI Web URI.....	64
9	Master data	65
9.1	Data type restrictions	65
9.1.1	Dates.....	65
9.1.2	Master data attribute names	65
9.1.3	Certification attributes.....	66
9.2	Trade item master data	68
9.2.1	Trade item master data attributes	69
9.2.2	Trade item master data attributes – trade item level.....	69
9.2.3	Trade item master data attributes – lot level	72
9.2.4	Trade item master data attributes – instance-level	75
9.2.5	Values of type measurement	76
9.3	Location and party master data	76
9.3.1	Location and party master data attributes	77
9.3.2	Location master data code list values	82
10	List of abbreviations (non-normative)	84
11	References	87

Index of figures

Figure 7-1	Coordinate reference systems	38
Figure 8-1	EPCIS Event HashID example.....	63
Figure 9-1	geoFence example.....	80