

**BUSINESS REQUIREMENT SPECIFICATION
TEXTILE AND LEATHER TRACEABILITY AND TRANSPARENCY
PROCESS & CCBDA DATA MODEL
(BRS TEXTILE AND LEATHER PROCESS AND CCBDA DATA MODEL
V1.0)**

Template for comments and observations

Please return completed templates to Maria Teresa Pisani, maria-teresa.pisani@un.org

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Please make all comments using this template.

Please propose suggested changes in order to make the Draft align with your comments (only those with proposed changes can be fully considered).

Ref. (leave blank)	Draft version number	Line numbers	Type of comment ¹	Comments	Proposed changes	Working Group Observations (leave blank)
		4-7	ed & tr	<p>The title of this document and the other BRS with the high-level process information are too similar and easily confused. Please look to find title that more clearly distinguish between the two documents.</p> <p>Title of this document “BUSINESS REQUIREMENT SPECIFICATION</p>	<p>One possible idea might be to call this document BUSINESS REQUIREMENT SPECIFICATION FOR TRACEABILITY AND TRANSPARENCY IN TEXTILE AND LEATHER, PART 2: USE CASES AND CCBDA DATA STRUCTURES</p> <p>And to call the other document: BUSINESS REQUIREMENT SPECIFICATION FOR</p>	<p>Replaced as follows: Business requirement specification for traceability and transparency in textile and leather, Part 2: Use cases and CCBDA data structures Business requirement specification for traceability and transparency in textile</p>

				<p>TEXTILE AND LEATHER TRACEABILITY AND TRANSPARENCY PROCESS & CCBDA DATA MODEL (BRS TEXTILE AND LEATHER PROCESS AND CCBDA DATA MODEL V1.0)</p> <p>And the title of the other document is: “BUSINESS REQUIREMENT SPECIFICATION TEXTILE AND LEATHER HIGH LEVEL PROCESS & DATA MODEL (BRS TEXTILE & LEATHER HIGH LEVEL V1.0)”</p>	TRACEABILITY AND TRANSPARENCY IN TEXTILE AND LEATHER, PART 1: HIGH-LEVEL PROCESS AND DATA MODEL	and leather, Part 1: High-level process and data model
		65-66	ed		Swap transparency and traceability	Done
		67	ed	<p>This is the first time SDGs are mentioned in the document</p> <p>Add a footnote with a link to the SDG document</p>	<p>Replace “with relevant SDGs of Agenda 2030” WITH “with the relevant Sustainable Development Goals (SDGs) of the 2030 Agenda” THEN add a footnote with a link to the Agenda 2030 document</p>	Done
		70	ed		Replace “on the products” WITH “on products”	Done
		71-74	ed	Not clear	Replace “In other words, from inputs to outputs, from trade item units to logistical units. By having this type of information linked, the history and origin of a product becomes visible across organizations and borders, including related information that supports a sustainability claim.”	Done

					WITH “In other words, tracking inputs as they are transformed into outputs, and trade-item units as they are added to, or removed from, logistical units. By having this type of information linked together, the history and origin of a product becomes visible across organizations and borders, as well as related information that supports sustainability claims.”	
		84-85	ed	Putting a dash in front of “batch” does not, in English, imply that the previous word, before “or” should be repeated and so it looks odd and leaves one thinking that there was a typo...	Replace “refers to the type of product or -batch or even the individual product or -batch” WITH “can refer to either the type of product or product batch or the individual product or product batch”	Done
		89	ed	See above	Replace “or -batches” WITH “or product batches”	Done
		96	ed	See above – and as a item on a list which is not the last item it should not end in a period.	Replace “Types of products/-batches as well as individual products/-batches.” WITH “Types of products or product batches as well as individual products or product batches”	Done
		108-110	Ed/te	Revised to make a bit clearer	Revise the first sentence as follows: “The objective of this document is to standardize the Business Processes, the	Done

				<p>Business Transactions and the Information Entities for the technical descriptions and information needed to support traceability and transparency data exchanges based on ISO 19987 (EPCIS¹) standard as well as other, similar repositories used for traceability events. "</p> <p>In the footnote add: “The name EPCIS reflects the origins of this effort in the development of the Electronic Product Code (EPC). It should be noted, however, that EPCIS does not require the use of Electronic Product Codes, nor of Radio-Frequency Identification (RFID) data carriers, and as of EPCIS 1.2 does not even require instance-level identification (for which the Electronic Product Code was originally designed).”</p>		
		111	ed	Replace “relationship” WITH “relationships”	Done	
		114	ed	Replace “(SDCE RDM), which when” WITH “(SDCE RDM) which, when”	Done	
		115	ed	Replace “be a view on” WITH “be a specific view of” NOTE – if you do not want to add “specific” the word “on” should still be changed to “of”	Replaced “on” with “of”	
		135	ed	If the name of the document in question is changed (as proposed in	Put the entire name of the document – now it is only partial	Added as follows:

				the first comment above), then this will need to be changed.		Business Requirement Specification for Traceability and Transparency in Textile and Leather, Part 1: High-Level Process and Data Model
		140	ed		Replace “The audience of” with “The audience for”	Done
		151-154	te and ed	Not clear, have made an attempt at right to clarify the meaning. Also, people often skip through long lists of documents to related to the current one and so they might very well miss that the definition of CCBDA is in that document list – and since this document has no glossary the definition needs to be put in a footnote.	Replace “The data exchange structures, also known as CCBDA structures will be derived from the Textile and Leather Process and Data Model. These derived structures are based on a uniform structure, as shown in relation to the Sustainable Development and Circular Economy Reference Data Model (RDM) architecture in Figure 1-1 below.” WITH “As shown below in Figure 1-1, the data-exchange structures, also known as CCBDA data structures, will be derived from the Textile and Leather Process and Data Model which is, in turn, based on the Sustainable Development and Circular Economy Reference Data Model (RDM) architecture.” ALSO, add a footnote right after “CCBDA” which says, “UN/CEFACT Core Components Business Document Assembly Technical	Done

					Specification (CCBDA) version 1.0 27 June 2012”	
		156	ed	If the names of this document and the high-level BRS document are changed (see first comment) then their names will need to be changed in this illustration		Done
		172	ed	The sentence should start with “The”		Added
		175	ed		In the table in the description column only the first word in each phrase should be capitalized	Done
		179-180	ed		Replace “transport data can be registered, data can be searched and data can be retrieved” WITH “transport data can be registered, searched for, and retrieved”	Done
		181-182	te	It is important to mention that this could be based on requests since this would require “messages” that make the request and reply to the request.	Replace “data could also be sent between parties without using such databases” WITH “data could also be sent between parties based on requests, without using such databases”	Done
		185 In far right column for B.2	te	The word “triggered” means “caused by” and neither the exchange nor the data are “caused by” the event data	Replace, “The needed additional information (e.g. sustainability data), when not provided by the shared events, can be exchanged between organizations, commonly triggered by (i.e. linked to) the event data.” WITH	Done

					“When not provided by the shared event data, the needed additional information (e.g. sustainability data), can be exchanged between organizations based on its linkages to the event data.”	
		185 In far right column for B.3	te	If you use the word “or” that means that one could have only the sustainability information without the 5Ws information – which is not the case	Replace, “and/or provide links to relevant information” WITH “and provide links, when appropriate and available, to relevant information”	Done
		185 In far right column for B.6	ed and te	These are plural not singular	Replace, “party and logistics location.” WITH “parties and logistics locations.”	Done
		185 In far right column for B.8	ed		Replace, “Interoperability between different systems.” WITH, “Interoperability between different systems will be needed”	Done
		185 In far right column for B.9	ed and te	Does not say what needs to be independent	Replace,” Independent of national and / or geographical locations.” WITH, “Data exchange standards need to be independent of national and / or geographical locations”	Done
		NA	ed		Replace, “Product and -batch” WITH “Product or product-batch”	Replaced as appropriate throughout the document

		194	TE/ED		Table: remove “supplier” from “product guardians” and add a line “Suppliers / Service Providers” with a respective definition	Added with a definition as follows: With the exception of transporters and warehouses who are product guardians, a person or company that provides something needed such as services, feed, equipment, materials, intermediary products and finished products used as inputs, chemicals etc.
		194	TE/ED		Replace “brand” with “brand owner” in the line “Traceability System Requestor”	
		198	te and ed	The event message could be for only one event, it does not have to be for multiple events.	Replace, “The event message contains a number of events regarding a product or - batch.” WITH “An event message contains one or more events regarding a product or a product batch.” Remove “& Transparency (TT)”	Replaced as follows: “An event message contains one or more events regarding a product or a product batch.” Removed
		200	te	Several points 1) For the party that is the receiver of a message, the arrow on the far-right side should be pointing the other way	See explanation to the left	The diagram has been revised accordingly

				<p>2) “Event Element” is not clear about what it is, I would put “Event Input(s) and Output(s)”</p> <p>3) What about the process? (the why in the 5 Ws?) much of the sustainability information is linked to the process and not to the trade transaction, parties, the location or even the event elements (as defined in the table below at 223)</p>		
		203-209	ed	Have tried to improve the clarity.	<p>Replace, “In the Figure 2-4 below both the EPCIS Repository and the system of the business partners are using parts of the Textile and Leather Data Model. Depending on the information needs of the Traceability Information Requestor, either basic visibility information or additional information needs can be retrieved. The basic information needs will be retrieved from an EPCIS-based or other shared repository and the additional information needs will be retrieved directly from relevant business partners. The implementation efforts regarding the exchange of information will be higher depending on the granularity of information.”</p> <p>WITH “In Figure 2-4 below both the Traceability Repository and the systems</p>	Done

					of the business partners are using parts of the Textile and Leather Data Model. Depending on the information needs of the Traceability Information Requestor, either basic visibility information (the 5Ws) or additional information can be retrieved. The basic information needs will be retrieved from a shared repository and the additional information needs will be retrieved directly from relevant business partners. The effort required for implementing information exchanges will depend upon the granularity of information (larger information packages requiring more effort).”	
		211	te		Remove “EPCIS TT”	Done
		215	te and ed	“System” should be plural	Replace, “Business Partner System” WITH “Business-Partner Systems”	Done
		220-221	te and ed		Replace, “lifecycle, all processing steps from the raw material source up to the point-of-sale of the end product or the recycling of the used end product.” WITH “lifecycle, for all processing steps from the sourcing of raw material up to the point-of-sale for the end product and the recycling of the used end product.”	Done
		223-224	te	Three important points regarding this table of Entity Descriptions.	1) For “Event Element”, I would suggest the following definition.	Revised accordingly:

				<p>1) The definition of Event Element <u>only</u> specifies the number and not the identifiers for the inputs and outputs – Somewhere we need to have the identifiers</p> <p>2) There is no information here about processes and a great deal of sustainability information is related to the processes. <u>This data is correctly reflected in figure 3-3 on TT data so the document should be consistent.</u></p> <p>3) What about “When”? This is also information that will often need to be collected – for chain of custody and for identifying event like the beginning (and end) of a quality problem. <u>Also shown in figure 3.3</u></p>	<p>“The identifier(s) for the object(s) in a designated object class (including inputs and outputs as applicable) and also, when applicable, the number of products included under one identifier, for example, the number of products in a product batch or the number of child objects in a parent object” NOTE: I hope this covers an event where, for example, a product batch, with only 1 ID, containing 100 products is disaggregated into 2 logistics units with different IDs. So here you would have 2 different output IDs (logistics units) with the same input ID (product batch number) but each with only half of the products in the batch.</p> <p>2) and 3) need to be determined by others more familiar with EPCIS and other traceability systems</p>	
		223-224	te and ed		<p>Change “Business transaction List” to “Trade Transaction List” with the following definition: “Identifies one or more specific business transactions that are relevant to an event. A business transaction is identified by a pair of identifiers: one identifier that says what type of</p>	Done

					business transaction is referenced, and a second identifier that names the specific business transaction of that type. Examples of business transaction types are orders, dispatch notes, invoices.”	
		223-224	te and ed		Remove row “Trade Transaction”	Done
		223-224	te and ed		Replace the description of “Disposition”: Identifies the business condition subsequent to the event of the physical or digital objects (What).	Done
		223-224	te and ed	The entries for party and location mix up the identifier and what it identifies	<ol style="list-style-type: none"> 1) Replace, “The party identifier that relinquishes” WITH “The identifier of the party that relinquishes” 2) Replace “The location identifier from where” WITH “The identifier of the location from where” 	Done
		223-224	te and ed		Add “(ReadPoint and Business Location)” after “Location” Revise description as follows: “In case of a Read Point, the identifier of the Read Point where the objects (What) were at the time of the event. In case of a Business Location, the identifier of the Business Location where the objects (What) are expected to be following the event, until another event says otherwise. The Business	Done

					Location is the location afterwards the Read Point Location.”	
		223-224	te and ed		Add “(see figure 2-3)” after “Object” Revise description as follows: “Identifies the physical or digital objects that were involved in the event (see figures 2.3 and 4.1)”	
		226	ed and te	Would it be possible to change “Event Registration” to “Registration of Event” so that the definition comes after the definition of “registration”. The use of the term “administration” in the description is very difficult to understand in English unless you have first read the description of “Registration”.		Done
		226-227	ed	The references should be put in footnotes with links		Done
		226-227	ed and te	For the description of the “Traceability and Transparency Information Requestor)” the following needs to be changed and suggested text is to the right. 1) It needs to be aligned with the definition of “Sustainability” which is in the same table. 2) The last sentence is incorrect – the traceability system is unlikely to be regulated – it is	Replace, “for their sustainability statement(s) (claims) regarding social, environment or human health. In the event that the traceability system is regulated, the data could also be used to verify compliance and enforce laws.” WITH “ for their sustainability statement(s) (claims) regarding environmental, health, human rights and socio-economic impacts. In the event that the products being traced are regulated, the	Done

				<p>the products that are traced by the system that are most likely regulated. For example, regulations might want to ensure that wood is legally logged or that cotton which claims to be organic really is organic.</p>	<p>data could also be used to verify compliance and enforce laws.”</p>	
		241-243		<p>This text does not make clear the difference between figures 3.1 and 3.2 because it uses the same name and its description of 3.4 as being a use case is incorrect because it is an activity diagram.</p> <p>In addition, it would be useful here to provide a larger picture showing the relationship between Figure 3-1 and Figures 3-2, and all of the diagrams from 3-4 through 3-9.</p> <p>Suggested revision is to the right.</p> <p>“Processes” is highlighted because it is added and because the concept is missing overall in the document and for sustainability it is important</p>	<p>Replace, “The use case for traceability and transparency is elaborated in Figure 3-2 - providing traceability –with event (visibility) information and Figure 3-4 - providing transparency - with additional information on products, -batches, transport movements, locations and/or business partners.”</p> <p>WITH</p> <p>“Within the Traceability and Transparency Generic Use shown in Figure 3-1, data is collected, registered and retrieved for events which provide the visibility which enables traceability. This event data can then, depending upon the application, have additional (sustainability) information linked to it. The use case diagram for traceability (visibility) events can be found in Figure 3-2 with diagrams showing more detail in Figures 3-4, 3-5 (activity diagrams) and 3-6 (a transaction sequence diagram).</p> <p>Figure 3-7 presents the use case diagram for additional transparency</p>	Done

					(sustainability) information on products, product-batches, processes, transport movements, locations and/or business partners. Its accompanying activity diagram is in figure 3-8 and the transaction sequence diagram is in figure 3-9.”	
		247-249	te and ed	<ul style="list-style-type: none"> • “product/- batch events” are included in “product/- batch related events” so there is no need to list them twice. • Activity diagrams are referred to as use case diagrams. • Plus some editorial changes 	Replace, “In figure 3-2 below, a use case is shown for declaring product/- batch events and/or product/- batch related events. The other use cases are about the search/request and response regarding the traceability and transparency Event. WITH “In figure 3-2 below, a use case is shown for declaring product and/or product-batch related events. Figure 3-3 shows the data being collected for events while the activity diagram in figure 3-4 details the event declaration process and the activity diagram in figure 3-5 details the search/request and response processes for traceability events.”	Replaced
			GE/TE		In the whole document, spell out TT to avoid confusion with Track and Trace. Check where it should be just traceability or just transparency, both or neither.	Done throughout the document
		254	ed and te	In a use case diagram each oval is a separate process (the more detailed breakdown into “steps” is done in the activity diagrams).	Replace “the use case to perform three business steps” WITH	Done

					“the use cases for performing three business processes”	
		255	ed		Replace “ Declare a product/-batch events by Transformation Partners, Product Guardians or Validation/Verification Bodies.” WITH “Declare product/ or <u>product</u> -batch events by Transformation Partners, Product Guardians, Other Suppliers / Service Providers or Validation/Verification Bodies.”	Done
		259	ed		Replace, “Response on a search request “ WITH “Respond to a search request”	Done
		277	ed	Because this short text is sandwiched between two figures, the reader has to compare the text to the diagrams in order to figure out which one it is referring to.	Insert at the beginning of the line, “In figure 3-5,”	Done
		284 AND 294	te and ed	This is a UML sequence diagram; it is not a use case diagram. This is not just a question of fact, calling 3 very different types of diagrams all “use case” can be confusing to the reader as well. See the following link for the names of the 14 types of UML diagrams.	Replace, “Business Transaction Sequence TT Event Use Case” WITH “Business Transaction Sequence for Events”	Done

				https://warren2lynch.medium.com/a-comprehensive-guide-to-14-types-of-uml-diagram-affcc688377e		
		293	te	The diagram is missing the arrow from the validation and verification bodies declaring information to the Repository, it only shows their requests to the Repository with the Replies.	Done	
		285-291	te and ed	<p>Incorrect name of diagram type. Plus some editorial changes.</p> <p>Note: forgot to put the change marking on for this replacement text...</p>	<p>Replace “The primary goal of this transaction use case is to declare/search/request TT events in the Traceability Repository. Events will be declared by the Transformation Partner and Product Guardian, or Validation/Verification Body such as declaring the creation of a product, the inputs/outputs of a transformation process, transport movements, storage, disposal and so on. When all actors in the value chain declare TT Events, visibility across the value chain becomes available. The TT Information Requestor and Validation/Verification Body can request the Repository Party for TT event information”</p> <p>WITH</p> <p>This diagram shows the sequence of information transactions needed for the processes of declaring, searching and requesting event information using a Traceability Repository. Events are declared by Transformation Partners,</p>	Done

					Product Guardians, Other Suppliers / Service Providers, Validation and Verification Bodies. Examples of such events are declaring the creation of a product, the inputs/outputs of a transformation process, transport movements, storage, disposal and so on. When all actors in the value chain declare Traceability Events, visibility across the value chain becomes available. The Traceability Information Requestor as well as the Validation and Verification Bodies can request the Repository Party for Traceability event information”	
		299-301			Revise the last two sentences as follows: “This use case is commonly limited to sustainability related data about a product, product batch, party, facility, process, location or transport movement. The implementation will decide which Transparency additional information is provided.”	Done
		303	ed		In the 2 nd use case oval, correct the spelling of “Respons” to “Response”	Done
		306-309	ed		Replace, “product, -batch, party, facility, location or transport movement to the Transformation Partner, Product Guardian or Validation/Verification Body. These parties will process the request and will collect the requested additional information. This information	Done

					will be sent to the TT Information Requestor” WITH “product, product-batch, party, facility, location or transport movement to the Transformation Partner, Product Guardian, Other Supplier / Service Provider or Validation/Verification Body. These parties process the request and retrieve the requested additional information. This information is sent to the Transparency Information Requestor”	
		315 and 325	te	This is a UML sequence diagram; it is not a use case diagram. Change the title of the section and diagram	Replace, “Business Transaction Sequence TT Additional Information Use Case” WITH ““Business Transaction Sequence for Additional Information”	Done
		316-319	te and ed	Incorrect use of “use case” and some editorial changes	Replace, “The primary goal of this use case is to exchange additional information between business partners and the TT Information Requestor. The identification of the Transformation Partner, Product Guardian or Validation/Verification body can be retrieved with the help of the Traceability Repository. The transaction sequence of this use case consists of only a request and a response.2 WITH “This diagram shows the sequence of information transactions needed for the exchange of additional information	Done

					between business partners and the Transparency Information Requestor. The identification of the party holding the additional information (i.e. the relevant Transformation Partner, Product Guardian, Other Supplier / Service Provider or Validation or Verification body), and can be retrieved from the Traceability Repository. The transaction sequence of this use case consists of only one request and a response between the party (having the additional information) and the Transparency Information Requestor.”	
		321	Ed/te		Replace TT with “Transparency”; add “(e.g. the Brand Owner)” after “Requestor”	Done
		322	ed		Change “collect” to “obtain”	Done
		328	te		Remove “(EPCIS)”	
		330	ed		Replace “EPCIS” with “event-“ and “(e.g. product/-batch/logistic unit)” WITH “(e.g. product/product batch/logistic unit)”	Done
		333-334	ed	Revised for easier reading and to include all 5 Ws	Replace “Visibility across the value chain is obtained even more by data regarding the when, why, where of an object.” WITH	Done

					“Even greater visibility across the value chain can be obtained through data regarding the: what, who, when, why and where of an object.”	
		339	te	This diagram is again missing the information about “process” (Why) which is important for sustainability		Revised
		340	te		Remove “, based on EPCIS 1.2”	Done
		342	te	I think this list is missing the party (who) information	<p>Change table headings to “Business Requirement” and “Description” and add a line for “Who”: “The identifier of the party that relinquishes ownership (source) or receives ownership (destination) of the objects as a result of the business transfer or takes possession as a result of other transfers, such as for storing goods in a warehouse.”</p> <p>In the “What” description, replace “EPCIS” with “The Traceability system”</p> <p>In the “Why” description, remove “EPCIS”</p>	Done
		347-348	te	Unclear to me what is meant here, I have made a guess and suggested replacement text but it needs to be verified	Suggest to replace “More information on the above listed information entities can be found within the Textile and Leather Traceability and Transparency Data Model, as these EPCIS information	Done

					<p>entities will not be restricted at message level.” WITH “More information on the above entities can be found in the Data Model for Textile and Leather Traceability and Transparency (see Part 1).</p>	
		357	Ed/te		<p>Replace “Destinaltion” 3 times WITH “Destination” Delete "how" row because it is future part, not yet official Delete "Dimension" column header. We cannot use 5W's as they are not used in this document. Better to leave header empty. It is self-explanatory Remove “Event” from “Event Date Time” Rename “Business Loc” into “Business Location” Add “(object)” after “EPCList”</p>	Done
		366-367	ed	For readability in the table	<p>Replace “Product/-Batch” with “Product or Product Batch”</p>	Done
		366-367	te		<p>Change the title of the table to “Key Transparency Information Entities”</p>	Done
		377-378	ed	To clarify	<p>Replace, “only a Global ID attribute is present, though many more could be made available.” WITH “only a Global ID attribute is shown, although many more attributes could be given to a product.”</p>	Done

		379-380	ed	If we change the name of this document (see comment 1) then it will need to be changed here as well		Done
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¹ Types of comments: ge = general; te = technical; le = legal; ed = editorial

(This document is inspired by the ISO/IEC/CEN/CENELEC electronic balloting commenting template/version 2012-03)