

Product Circularity Data: Extension of the Textile and Leather BRS part 2: Use case and CCBDA data structure

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Domain	Agriculture Fisheries and Agri food Domain
Project Identifier	P1108
Bureau Decision #	#2111052, #2206085, #2212017, #2309067, #2312004, #2402014
Project Proposal Status	Official
Project Page	Product Circularity Data: Extension of the Textile and Leather BRS part 2: Use case and CCBDA data structure
Supporting VC	Nancy Norris
Project Lead	Virginia Cram-Martos
HoD Support	BR, ES, RU, SE, SI, VN
Status	In development
Version	1.0
Submitted date	2021-11-05
Draft Development Completion	2024-06-30
Publication Date	2024-09-30

Project Purpose

The project's purpose is to update and publish the Textile and Leather BRS (Business Requirement Specification) part 2 with an additional use case and CCBDA (Core Component Business Document Assembly) data structure to support the reuse and recycle stages of the value chains through a digital representation and exchange of circular product and material data.

Project Scope

Improving sustainability including circularity is one of the major objectives of most industries and sectors (domestic and international). Circular product data represents the digital identity of product and material data in such a way that it supports circular business models, including resale, rental, collections, sorting, and recycling. Especially brands want to be able to communicate product and material data from the first point of sale as resellers, sorters, and recyclers need a digital identity of products and materials to scale systems for circular lifecycle management. The Textile and Leather Data Model, part of the UN/CEFACT Buy-Ship-Pay model, covers all stages of product life cycle including the use, reuse and recycle stages, in connection with the circular economy approach. In 2020 the textile and leather data model for traceability and transparency was developed in a global and generic. This global and generic approach will apply for the extension of the specified use cases, the data model and derived CCBDA data structure.

The proposed project is, therefore, to develop an additional use case, CCBDA data structure and derived message (XML/JSON*) with the following objectives:

- The scope of the project is international, cross-border, domestic and cross-industry.
- Development of an additional use case and CCBDA data structure for the Textile and Leather BRS document part 2, according to the UN/CEFACT Modelling Methodology (UMM).
- Development will take the EON Circular Product Data Protocol as an important contribution and by this provides a basis for existing and future domain work.
- Development will take the European Union Digital Product Product (DPP) data points as an important contribution and by this provides a basis for existing and future domain work. Although an initial alignment of the DPP preliminary list of attributes with the UNCCL (UN Core Component Library) and EON contribution looks promising, some profound work on this should be conducted.
- Development of the CC's (Core Components) and BIEs (Business Information Entities) to be included in the UNCCL and in the derived textile and leather data model.

Project Deliverables

Deliverable 1: Updated Textile and Leather BRS part 2 with a use case and data structure reflecting the circular product data requirements. Note: The project team may decide to create a separate BRS as part of the Sustainable Development and Circular Economy BRS, which is in development. The textile and Leather will then be a profile of this work.

Deliverable 2: CCBDA data structure (model) to representing the digital identity of product and material supporting a circular economy.

Deliverable 3: Submission file for possible new CCs and BIEs to be included in the UNCCL.

Deliverable 4: Process-driven XML Schema based on the CCBDA data structure.

Deliverable 5: A standardized API (Application Programming Interface) when supported by UN/CEFACT standards.

Exit Criteria

The exit criteria will be:

Deliverable 1: Public Review logs demonstrating all comments have been satisfactorily resolved; Final document ready for publication.

Deliverable 2: CCBDA message structures ready for publication.

Deliverable 3: Needed Entries to the UNCCL ready for publication.

Deliverable 4: XML message ready for publication.

Deliverable 5: API/JSON specification for the use case.

Project Team Membership and Required Functional Expertise

Sustainable supply chain management, traceability systems and the UN/CEFACT Buy-Ship-Pay Model and related activities as well as in modelling techniques.

In addition, Heads of Delegations may invite technical experts from their constituency to participate in the work. Experts are expected to contribute to the work based solely on their expertise and to comply with the UN/CEFACT Code of Conduct and Ethics and the policy on Intellectual Property Rights.

Geographical Focus

The geographical focus of the project is global.

Initial Contributions

The following contributions are submitted as part of this proposal. It is understood that these contributions are only for consideration by the Project Team and that other participants may submit additional contributions in order to ensure that as much information as possible is obtained from those with expertise and a material interest in the project. It is also understood that the Project Team may choose to adopt one or more of these contributions "as is".

- UN/CEFACT Core Components Library
- UN/CEFACT Buy-Ship-Pay Model
- UN/CEFACT Textile and Leather Data Model
- UN/CEFACT BRS part 1: Business Requirements Specification for Traceability and Transparency in the Textile and Leather Sector, Part 1: High-Level Process and Data Model
- UN/CEFACT BRS part 2: Business Requirements Specification for Traceability and Transparency in the Textile and Leather Sector, Part 2: Use Cases and CCBDA Data Structures
- UNECE Recommendations and Code Lists
- UNECE paper "Transparency in garment value chains in relation to the environmental, social, and human health impacts of parts, components and production processes"
- UN/CEFACT Conferences on "Ethical and informed choices for sustainable clothing- Tracking and tracing garment supply chains" (30th and 31st UN/CEFACT Forum)
- UN/CEFACT RDM2API (Reference Data Model to API) and API project deliverables based on UN/CEFACT API CCBDA subset to JSON ((JavaScript Object Notation) export technical specifications (under development).
- The European Commission Sustainable Product Initiative (SPI), one of the main deliverables of the New Circular Economy Action Plan.
- The European Union Digital Product Passport.

Resource Requirements

Participants in the project shall provide resources for their own participation. The existence and functioning of the project shall not require any additional resources from the UNECE secretariat

Project Proposal Files

File	Modified
PDF File 211215-3x Textile HoD support RU.pdf	Dec 06, 2021 by SHLYKOVA
PDF File 211215-3x Textile HoD support SE.pdf	Dec 06, 2021 by SHLYKOVA
PDF File 211215-3x Textile HoD support SI.pdf	Dec 06, 2021 by SHLYKOVA
PDF File 211215-3x Textile HoD support BR.pdf	Dec 08, 2021 by SHLYKOVA
PDF File 211215-3x Textile HoD support ES.pdf	Dec 21, 2021 by SHLYKOVA
PDF File 211215-3x Textile HoD support VN.pdf	Dec 21, 2021 by SHLYKOVA
PDF File Project proposal Extension Textile and Leather BRS part 2.pdf	Feb 08, 2023 by SHLYKOVA

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