Smart Containers

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other

Project Details

Domain	Transport & Logistics Domain
Project Identifier	P1055
Bureau Decision #	#1705013; #2006001; #2101080
Project Proposal Status	Official
Project Page	Smart Containers
Supporting VC	Hanane Becha
Project Lead	Jaco Voorspuij
HoD Support	AU / IT / US / FR
Status	Completed
Version	4.0
Submitted date	2017-04-24
Draft Development Completion	2021-06-30
Publication Date	2021-09-15

Project Purpose

The project's purpose is to define the required information that could be exposed by tracking and monitoring devices linked to containerized goods. This could be used by private sector partners or by any cross-border agencies such as plant and veterinary agencies, hazardous, pharmaceutical and illegal goods control, customs and regulatory authorities in order to improve the data availability within multimodal transport and logistics operations.

Project Scope

Smart containers are taking the digital age of shipping one step further beyond paperless processes by embracing the Internet of Things (IoT) to support enhanced decision-making by the various sectoral stakeholders.

The aim of this project is to define the information that could be transmitted by smart containers in support of decision making by private sector partners and cross-border agencies. This information will be collected by smart devices which can communicate with authorized partners.

The project will capture the Business Requirements Specification (BRS) of the exchanges provided by smart containers. It will also develop a Requirements Message Specification (RSM) and standardized message structures based on the MMT Reference Data Model.

Project Deliverables

The project deliverables will be:

- Business Requirements Specification (BRS) as defined during the business requirements gathering
- Requirements Message Specifications (RSM)
- XML schema of the required messages
- White Paper on Smart Containers

Exit Criteria

The exit criteria will be:

- Business Requirements Specification (BRS) as defined during the business requirements gathering
  - External Review Log showing all comments have been addressed
- Requirements Message Specifications (RSM)
  - External Review Log showing all comments have been addressed
- XML schema of the required messages
  - External Review Log showing all comments have been addressed
- White Paper on Smart Containers
  - Final text is ready for publication

Project Team Membership and Required Functional Expertise

The project team is open to experts with broad knowledge and experience in the area of supply chain 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.

Geographical Focus

Geographical Focus is global.

Initial Contributions

- T&L's Multi-Modal Transport Reference Data Model (project p1023)
- BRS IFTM International Forwarding and Transport
- UN/CEFACT Modelling Methodology (CEFACT/TMG/N093)
- UN/CEFACT ebXML Core Components Technical Specification Version 2.01
- UN/CEFACT Core Component Library
- UN/CEFACT International Supply Chain Reference Model
- UN/EDIFACT Data element directory D.16A
- Recommendations from ITIGG ((International Transport Implementation Guidelines Group)
- Guide to the UN/EDIFACT containers messages (SMDG/TBG3/ITIGG)
- UN EDIFACT messages: IFTSTA and IFTSTQ
- BRS and RSM Cargo Tracing and Tracking

Resource Requirements

No additional secretariat resources will be required.

Project Proposal Files

File	Modified
PDF File 170904-3x T+L Smart Container AU HoD support.pdf	Oct 13, 2017 by Lance THOMPSON
PDF File 170529-3a T+L Smart Container v4 FINAL.pdf	Oct 13, 2017 by Lance THOMPSON
PDF File 171002 3x T+L Smart Containers- IT HoD support.pdf	Oct 13, 2017 by Lance THOMPSON
PDF File 171002 3x T+L Smart Containers- US HoD Support.pdf	Oct 13, 2017 by Lance THOMPSON
PDF File 170628-3x T+L Smart Container FR HoD support.pdf	Oct 13, 2017 by Lance THOMPSON

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