UN/CEFACT Project Proposal

Development of electronic data exchange structures for the transport and logistics sector suitable for exchanging via mobile communication technologies

First Submitted Date: 2016-05-04
Last Update Date: 2017-08-08

1. Project purpose

The purpose of this project is the specification of the business requirements and essential data items suitable to be transferred using mobile technologies during the delivery of transport services. A transport services provider (carrier or freight forwarder) when contracted by a transport services buyer (consigner or consignee) is committed to deliver the contracted consignment to a designated consignee via any named contractual locations. In reality, as a result of the diversified nature of the modern intermodal, synchromodal and multimodal transport infrastructures, the actual routes deployed often vary from the contractual arrangements. The reasons for these deviations are very varied but most often result from operational considerations. However, changes in itineraries during transport movements can also be pointers to security and other risks of interest to cross-border agencies. In both cases, the tracking of the trade items is made more difficult with every operational route change and all the parties concerned are needing new methods by which they can be informed of all such changes in safer, more precise and prompt ways.

Modern communication methods such as those based on mobile technologies can assist in providing real-time information to keep all interested parties up to date along the transport chain. However, these new communications methods are not suitable for exchanging large-scale amounts of data and therefore the key data requirements need to be identified to support short, sharp efficient data deliveries at regular intervals.

This project will base its work on the Multi Modal Transport (MMT) reference model and will analyse the required subset business process scenario and identify the relevant data items and structures needed for supporting real-time mobile technologies.

2. Project scope

The scope of this project is limited to:

- specifying real time and geographical data items to be useful to exchange in order to increase transparency, reliability and completeness during the transport movements of consignments;
- developing BRS based on the MMT high-level BRS;
- developing an RSM to help users apply the identified data items in standardised message structures.
- Develop a guideline for implementing the scenario defined in the BRS and RSM deliverables

3. Project deliverables

The project deliverables are:

- Business Requirements Specification (BRS) as defined during the business requirements gathering
- Requirements Message Specifications (RSM)
- UN/EDIFACT messages (to be defined or updated)
- XML schema of the required messages
- Guideline - Guideline document.

4. 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
- Guideline document
    - External Review Log showing all comments have been addressed

5. Project Team membership and required functional expertise

The project team is open to experts with broad knowledge and experience in the area of transport, logistics and related mobile communication messaging 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

6. HoD support

Mr. Christian Huemer (Austria)

Mr. Lee Jung Gu (Korea)

Mr. Hisanao Sugamata (Japan)

List at least three Country heads of delegation who support this project, and include their written expression of support using the template in annex IV.

7. 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".

- 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
- Artefacts from the South Korea Electronic Bill of Delivery for Logistics (eBOD) project

8. 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.

10. Project Leadership

Proposed Project Leader: Dr. Youngkon Lee (yklee2002@gmail.com)

11. Milestones

BRS Project stages	Expected Completion Date (YYYY-MM-DD)
Project Inception	Approval + 1 month
Requirements gathering	Approval + 3 months
Draft development	Approval + 6 months
Public Draft Review	Approval + 8 months
Project Exit	Approval + 9 months

RSM Project stages	Expected Completion Date (YYYY-MM-DD)
Draft development	BRS Public Review + 4 months
Public Draft Review	BRS Public Review + 6 months
Project Exit	BRS Public Review + 8 months

Guideline Project stages	Expected Completion Date (YYYY-MM-DD)
Draft development	RSM Public Review + 2 months
Project Exit	RSM Public Review + 4 months