

ISO/TS 24533:2012-07 (E)

Intelligent transport systems - Electronic information exchange to facilitate the movement of freight and its intermodal transfer - Road transport information exchange methodology

Contents		Page
1	Scope	1
2	Terms and definitions	2
3	Symbols and abbreviated terms	7
4	Intermodal freight context	8
4.1	General	8
4.2	Intermodal freight -- Road transport component concept of operations	9
4.2.1	Objectives	9
4.2.2	Overview of freight physical flow	10
4.2.3	Information exchange transactions	12
4.2.4	Operational scenario	13
4.2.5	Maintaining the operational scenario	23
4.3	Intermodal freight -- Road transport component use cases	23
4.3.1	Business domain	23
4.3.2	Business requirements	25
4.3.3	Global context use case -- Ship (Transport interpretation) -- Level 1	25
4.3.4	Use case elaboration -- Initiate consignment transport -- Level 2	27
4.3.5	Use case elaboration -- Export -- Level 2	32
4.3.6	Use case elaboration -- Import -- Level 2	33
4.3.7	Use case elaboration -- Transport consignment: Inbound -- Level 2	34
4.3.8	Use case elaboration -- Conclude consignment transaction -- Level 2	35
5	Information modelling	36
5.1	Core components	36
5.2	OASIS Universal Business Language	38
5.2.1	UBL Core Component and document library	38
5.2.2	Applying UBL to intermodal freight movement	38
5.3	The UBL transportation status document type	39
5.4	Customizing UBL document types	40
5.4.1	Creating ITS transportation document assembly models	40
5.4.2	Creating ITS transportation XML schemas	41
6	Code lists	41
6.1	UBL code list values and code list schemas	41
6.2	ITS transportation status code lists and code list schemas	42
Annex A (informative) Governance in the context of intermodal electronic information exchange using UBL/XML		43
Annex B (informative) Core component types		44
Annex C (informative) Document assembly model for a representative ITS transportation status document		48
C.1	Main document assembly model	48
C.2	Common document assembly models	49

Annex D (informative) XML schema for an ITS transportation status document type	64
Figure 1 -- Information exchanges at intermodal interface	1
Figure 2 -- Simplified depiction of physical freight flow for time-sensitive freight	11
Figure 3 -- Information exchanges in a generalized "Truck-Air-Truck" supply chain	21
Figure 4 - Use Case Diagram - Ship (Transport Interpretation)	26
Figure 5 -- "Transport Event" ABIE with BBIEs and ASBIEs	37
Figure 6 -- Primary transport ABIEs and their associations	40