

Paperless transport

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Subgroup 1

SG1 – Paperless Transport

Principles and Scope of SG1

B2A exchange of data for goods
“Pull mechanism” will be standard for exchange
IT used has to be certified
Certified systems are eFTI Platforms (can still be anything)
Technological neutrality

Goods

eFTI Regulation

- ✓ **Covering various pieces of legislation**
- ✓ **Will not change relevant legislation**
- ✓ **Harmonise data and exchange of data**
- ✓ **Take into account and find synergies with existing standards (global or other field like customs or eMSWE)**
- ✓ **Where win-win can be created for B2B, it should be ensured**

Vehicles & Personnel

- **No proactive work will be carried out by the DTLF (for now)**
- **Work carried out in other Fora**
- **Nonetheless, the Members will update the DTLF with any relevant developments**

SG1 – Paperless Transport

SG1 links with eFTI legislation

- ❖ Requirements for economic operators concerned – article 4
- ❖ Requirements for competent authorities – article 5
- ❖ eFTI common data set and eFTI data subsets – article 7
- ❖ Common procedures and rules for access – article 8
- ❖ Functional requirements for eFTI platforms – article 9
- ❖ Requirements for eFTI service providers – article 10
- ❖ Certification of eFTI platforms – article 12
- ❖ Certification of eFTI service providers – article 13

SG1 organisation:

Team number	Team name	Tasks linked to teams	Total number of participants
Team 1	Data modelling	Task 1	36
Team 2	Functional	Tasks 2 & 4	49
Team 3	Technical	Tasks 3 & 4	38
Team 4	Certification & implementation	Tasks 5 & 6	38

DTLF - Subgroup 1- Paperless transport		Phase 0 - Q3 2019		Phase 1 - Q4 2019		Phase 2 - Q1 2020		Phase 3 - Q2 & Q3 2020		Phase 4 - Q4 2020									
Nr.	Type of Activity	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	M18
0.	Coregroup																		
0.1	Finalise work plan and establishing of teams and team leads																		
1.	Data modelling aspects																		
1.1	Listing of required and relevant data elements																		
1.2	Analysis of the data elements																		
1.3	Converging of analysis into conclusions																		
1.4	Finalisation & reporting																		
2.	Functional aspects																		
2.1	Analysis / Business process modelling (per transport mode)																		
2.2	Comparison, alignment of processes & identification of issues																		
2.3	Finalisation & reporting																		
3.	Technical aspects																		
3.1	Initial analysis on possible (existing) elements for interfaces																		
3.2	Next steps determined by functional aspects and partially data modelling																		
3.3	Finalisation and reporting																		
4.	Platform requirements																		
4.1	Framework access rules, access governance, roles and delegation																		
4.2	Authentication, identification																		
4.3	Confidentiality, integrity and availability (including fall-back procedures)																		
4.4	Finalisation & reporting																		
5.	Certification																		
5.1	Certification requirements																		
5.1	Certification procedure																		
5.1	Providing proof of certification																		
5.1	Finalisation & reporting																		
6.	Implementation																		
6.1	Implementation strategy / planning																		
6.2	Testing and provision of testing facilities (where relevant)																		
6.3	Communication, training and helpdesk (where relevant)																		

Objective – Perform the preparation for the “Transport Data Model (EUTDM)” for the establishment of the eFTI common dataset and subsets.

Scope: Legally required freight information within the scope of the eFTI regulation

Conditions

Re-use of existing data models/requirements

Align with the European Interoperability Framework (EIF) / Data strategy

Taking into account

EU Legislation not covered by eFTI but similar or linked

National Legislation/Practical requirements

International Standards/Conventions

Private sector/B2B standards

Planning and state of play

1. **Creating an initial table containing the baseline EU-level legal requirements as defined by the eFTI Regulation**
2. **Enriching of the table of baseline requirements**
 - Input provided so far is valuable and provides a good base for further analysis and comparison
 - Input still very welcome
3. **Mapping/comparison of baseline to:**
 - National requirements
 - EU Legislation not covered by eFTI but similar or linked
 - International Standards/Conventions
 - Private sector/B2B standards
4. **Proposal for eFTI Data set / EUTDM**

Some initial conclusions

- **Most elements overlap**
 - Overlap within eFTI scope
 - Overlap with EUCDM & EMSWE
 - But not always the same
- **Some additional might be required because:**
 - Not specified in EU legislation
 - Could be needed in digital environment
 - Could combine unique elements
 - Could be useful
- **Some have a functional aspect and/or relation to other (existing) data**
 - Try to find functional solution/link to existing data(bases)
 - If not possible
 - Determine if necessary in digital environment
 - If previous not possible, convert to digital environment

Total EFTI data requirements: 46

Validation/status indication: 5

Unique to 1 set: 9

Total identified after converging: 26

Necessary and/or clear overlap: 17

Optional/to be discussed: 9

Group 1 Message information

Signature/ authentication

Set(s)/legislation covered

Group 2 References of messages, documents, certificates, authorisations

Additional Information

Documents produced, certificates and authorisations, additional references

Reference number/UCR

Group 3 Parties

Consignor

Consignee

Carrier

Party making data available

Party providing a declaration/statement

Representative

Communication/Notify Party

Party ID

Group 5 Dates/Times/Periods/Places/Countries/Regions

Place of acceptance

Date & time of acceptance

Place of Delivery

Date & time of delivery

Date of making data available/Date of amendment

Group 6 Goods identification

Description of goods

Type of packages

Number of packages

Shipping marks

UN Dangerous Goods code

Gross mass (kg)

Supplementary units

Commodity code – Combined Nomenclature code

Group 7 Transport information (modes, means and equipment)

Identity of means of transport

Container identification number

Transport mode

No colour: data element required by eFTI related legislation – match found with the EUCDM
 Blue: data element required by eFTI related legislation – match NOT found with the EUCDM. More suitable proposal DTLF stakeholders
 Red: data element required by eFTI related legislation – NOT as a separate data element in a digital environment
 Yellow: data element NOT required by eFTI related legislation – might be necessary to consider according to the legal framework, or could be useful in general

Planning

May – September 2020

- Additional time for input on comparison tables
- Further analysis and addressing of issues according to previous grouping
 - Missing elements
 - Irrelevant
 - No particular issues
 - Further discussion
 - Similar requirements exist but with differences
 - Not deemed relevant in some cases but could be
- Interim Subgroup report on data
 - Conclusions and observations
 - Advise on remaining issues
 - Advise on next steps
 - Initial proposal eFTI common data set/EUTDM

September – December 2020

(partially in parallel)

- Further detailing and validation of initial eFTI dataset/EUTDM
 - Mapping of data elements with legal obligations
 - eFTI & other (e.g. Customs, EMSWE)
 - Mapping of data elements with existing standards and data models
- Establishment of
 - Conceptual model
 - Logical model
 - Technical model
- Data elements reference list with the following information for each data element:
 - Unique element ID number, Name, Data group, Definition, Format, Code list, Business rules,
- Proposal for Transport Data Model, if time allows including UML - XML

Objective – Perform the preparation for the establishment of common procedures and detailed rules for authorities' access to eFTI platforms, including

- ❖ procedures for processing of regulatory information made available and;
- ❖ the functional requirements of the eFTI Platforms & Service Providers

Scope: the making available and processing of the legally required freight information within the scope of the eFTI regulation

Conditions

- ❖ Authorities must be able to perform their control tasks in entire EU
- ❖ Efficiency gains should be accomplished for both public and private sector
- ❖ Ensure confidentiality, integrity and availability of data

Taking into account

- ❖ The characteristics, and needs of all parties affected
- ❖ We are not building or designing an IT system
- ❖ The optimal re-use of existing systems
- ❖ Technological neutrality and future-proof concepts

Key elements of the workplan

Team 2 of SG1 will provide assistance, advice and technical expertise to the European Commission on:

- ❖ defining the common procedures and detailed rules, including common technical specifications, for competent authorities' access to eFTI platforms
- ❖ establishing the detailed specifications for the functional requirements for the eFTI platforms
- ❖ establishing the detailed rules regarding the requirements for eFTI services providers

Methodology

- ❖ EU BUSINESS PROCESS MODELLING (EU BPM)

Approach

- ❖ multitude of differentiating factors, there is no catch-all business process model
- ❖ it should still be possible to come up with a generic model or master flow based on multimodality with some diversification.
- ❖ Therefore, identifying the sources that drive functional diversity is a key task

Tasks

Task 1 - “What are the purposes and timing requirements or constraints for data provision?”

Task 2 - “Which actors are involved and what impact does each of them have on the process?”

Task 3 - “Do different transport modes require different business processes?”

Task 1 to 3; 2 to 3 workshops with approximately 10 to 15 participants
July – September 2020

Task 4 – “Are some needed functionalities driving diversification?”

2 to 3 workshops with approximately 10 to 15 participants
September – October 2020

Task 5- BPM designing exercise

2 to 3 workshops to process all the results from the workshops and design a complete BPM. The BPM will be designed using ARIS - October – December 2020

Technical aspects

Aspects covered

- ❖ Preferred interfacing options
 - ❖ B2A and where relevant A2B & A2A, depending on push or pull
 - ❖ S2S and U2S
- ❖ Database requirements
- ❖ Authentication, identification (related to platform and service provider requirements)
- ❖ Confidentiality, integrity and availability (related to platform and service provider requirements)
- ❖ Capacity requirements

Implementation & Certification

Certification

- ❖ **Certification requirements**
 - ❖ Ensuring sufficient clarity and harmonisation
 - ❖ Ensure sufficient flexibility and ability to adapt to new business concepts and technology
 - ❖ Database requirements
- ❖ **Certification procedure**
- ❖ **Providing proof of certification**

Implementation

- ❖ Implementation strategy & planning
- ❖ Testing and provision of testing facilities
- ❖ Communication, training and helpdesk facilities

**Thank you for your
attention**

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