Freight Transport Processes’ Standardization in co-modal transport: Merging LIM and the e-Freight initiatives

Mary Vayou
BMT Group

Jan Tore
Pedersen
Marlo a.s
The e-Freight Concept

e-Freight receives funding from the EC FP7 Sustainable Surface Transport Programme
The e-Freight Framework

- A standard framework for freight transport and logistics information exchange covering all transport modes and all stakeholders.

- Hang him not, leave him alive – Hang him, not leave him alive
e-Freight vs the Common Framework

- Initial definition of the Common Framework:
  - One Common Framework for Information and Communication Systems in Transport and Logistics

- The e-Freight Framework is a true subset of the Common Framework

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Standards

- Several actors:
  - UN/CEFACT
  - OASIS/UBL
  - CEN
  - GS1

- Tradition:
  - Specifications
  - Implementation Guidelines

- Different interpretations
- Limited interoperability
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Efficient Cooperation Between Roles

Transport User

Transportation Network Manager

Transport Service Provider

Transport Regulator

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### Roles

| Logistics Services Clients | • Shippers  
| • Freight Forwarders |
|---------------------------|------------------|
| Logistics Services Providers | • Terminal Operators  
| • Transport Operators (train, ship, inland waterways, air)  
| • Logistics Service Providers |
| Transportation Infrastructure Managers | • Port authorities  
| • Rail administrations  
| • Road administrations |
| Transport Regulators | • Customs  
| • Safety Agencies  
| • Security Agencies |

**C**onsignor  
**C**onsignee

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Hierarchical Load Units

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LIM Scope

- Essentially focused on road transport
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GS1 LIM Processes

Interoperation Agreement    Master Data Alignment    Logistics Service Conditions    Planning    Warehousing    Transport    Financial Settlement

Logistic Services Provider    Logistic Services Client

- Interoperation Agreement
- Master Data Alignment
- Logistic Services Conditions
- Planning
- Warehousing
- Transport
- Financial Settlement

Logistics Processes:
- Planning: Master Data Alignment, Logistics Service Conditions, Interoperation Agreement
- Warehousing: Logistics Services Conditions, Transport
- Transport: Logistics Services Conditions, Planning
- Financial Settlement: Logistics Services Conditions, Planning

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Consolidated Business Processes

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<th>Interoperation Agreement</th>
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<th>Planning</th>
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Consolidated Business Processes

Interoperation Agreement  Master Data Alignment  Logistics Services Conditions  Long Term Planning

Operational Planning  Execution  Completion

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Scope

- Co-modality (all modes and combination of modes)
- Warehousing
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Establish Long Term Plans

- Product market data
- Product orders
- T/L market data
- T/L orders

Establish interoperation agreement

- Available T/L resources
- Transport policy

Interoperation settings

Align master data

- Terms and conditions
- Transportation network status

Make long term plans

- Corridor strategies
- AEO information

Operational experience

- Logistics services conditions
- Planning experience

- Forecasts
- New T/L resources

AEO information

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Establish Interoperation Agreement

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Manage Services

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Plan Consignments

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Manage Execution

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Lessons Learned

- Despite very different origins and approaches, e-Freight (Common Framework development) and the GS1 LIM initiative have more things in common than differences.
- The Business Processes are completely harmonised.
- Message alignment is ongoing, but requires more calendar time.
Thank You!