



Port de Barcelona



**New project for:**  
**message specification for  
ro-ro cargo**

**21th UN/CEFACT Forum**

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**Geneva, April 2013**



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### 1

### Introducing the port of Barcelona

- Port of Barcelona is located in Catalonia, one of the most dynamic zones from the South of Europe.
- The Port operated 43 million freight tones, 1,8 million TEU's, **670.000 vehicles**, 7.757 vessels and 3,4 million passengers for the year 2012.
- Nowadays the Port is connected with 850 ports all around the globe by 113 regular transport lines.
- Port of Barcelona wants to offer a multimodal approach to its users, including sea, road and rail in its EDI procedures.



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**Scope of the project**

- Definition of messages for management of cargo operated at:
  - Car freight terminals (freight cars and static cargo)
  - Multipurpose terminals (including ro-ro cargo)
  - Short sea terminals (trucks, trailers, freight cars, passengers cars,...)



2

Scope of the project

- Gate operations
  - Release orders or pre-arrival notice
  - Pre-notification message
  - Customs clearance information
  - Gate-in/gate-out report message





## 2

## Scope of the project

- Sea side operations
  - Pre-arrival information from car manufacturers (partial unloading list)
  - Full unloading list from shipping agents
  - Unloading report
  - Customs clearance information





2

Scope of the project

- Terminal operations:
  - Stock management
  - Damage reports
  - Other value added services:
    - Pre Delivery Inspection (PDI)
      - Job order (with brand proprietary codes, including VINs, billing information and requested service date)
      - First communication when the service begins
      - Another communication when the service ends

Which EDIFACT messages can be used for those purposes?





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Cargo and units of transport

- Types of cargo and how they can be identified

Short Sea Terminals

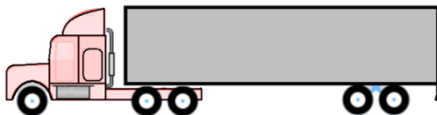
Passenger's cars



New & Used  
Automobiles



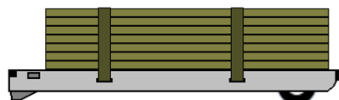
Trucks with driver



Semi-trailers



Roll trailers



Containers





3

Cargo and units of transport

- Types of cargo and how they can be identified

**Car freight and multipurpose terminals**

New & Used  
Automobiles



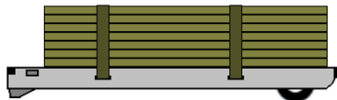
Semi-trailers



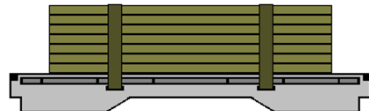
Tractor heads



Roll trailers



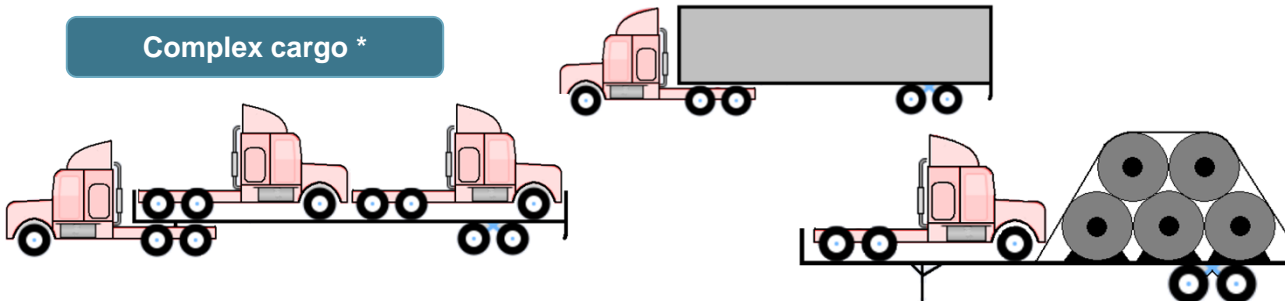
Pallets



Heavy machinery



Complex cargo \*





3

Cargo and units of transport

- Information that terminals require (complex cargo)

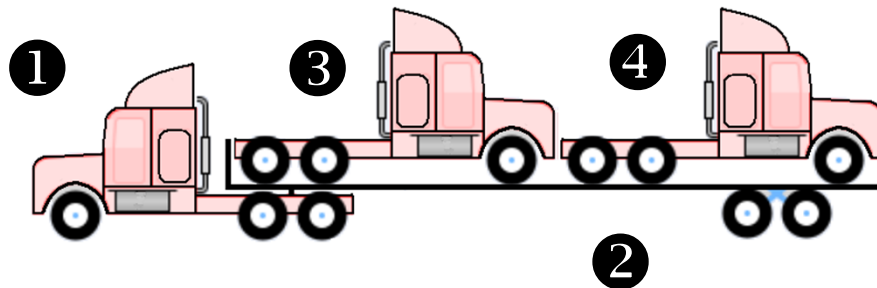
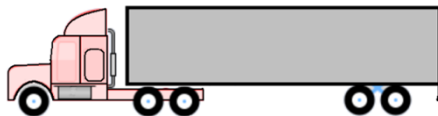
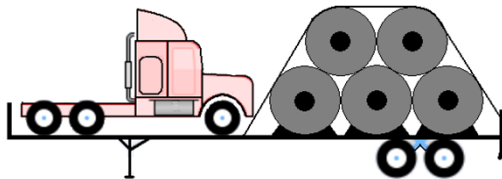
VIN or serial number for each piece

Unitary weight and total weight of the group

Group dimensions and volume

Link between the different parts

Complex cargo \*



Is there any DE code for doing that?

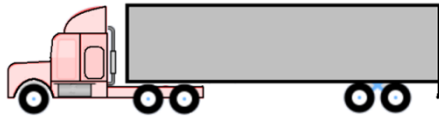
Or we need a DMR for that?



3

Cargo and units of transport

- Standardisation of some type and size of units of transport: e.g. trailers according to their length (new codes for DE8155)



**Length is one of the key parameters at Short Sea transport.**



## 3

## Cargo and units of transport

- For freight cars there are other parameters that have to be coded and included in the messages:
  - Brand
  - Model
  - VIN
  - Colour ?





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**Further requirements**

- ...and soon: messages will be combined with information from sensors
  - LPRs
  - Bar code readers
  - QR code readers
  - RFID tag readers





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Conclusion

- Most of ro-ro messages can be an evolution from container messages
- A close collaboration with SMDG is needed
- New requirements:
  - Links between units of transport and cargo (specially for complex cargo)
  - New codes for units of cargo, ...
- What will be the expected deliverables:
  - New messages? ROXXXX?
  - A list of recommendations?
  - Some principle and rules for ro-ro cargo?



5

Conclusion

Now, we know the requirements...



... and the proposed project has to give us the solution



[www.portdebarcelona.cat](http://www.portdebarcelona.cat)

Thank you





**Port de Barcelona**