Overview

• Background and Context
• Motivation and Requirements
• e-Freight Project Next Generation Single Window Concepts
• Latvia Pilot Solution
Background and Context

• UN Single Window Concept (Recommendation 33)
• Initiatives at International Level
  – WCO, APEC, ASEAN
• EU Level Initiatives
  – e-Customs → Customs Single Windows (ICS/ECS)
    (Modernised Customs Code Programme)
  – SafeSeaNet → Maritime Transport Single Windows
    (VTM and Ship Formalities Directives)
  – e-Freight, e-Maritime, RIS, TAF/TSI, ITS...
Motivation

- Regulation and transport formalities pose barriers to efficient trade
- Extensive range of agency-specific and country-specific requirements, systems and interfaces
- Little or no co-operation between parties or integration of systems
- Traders and transport operators faced with complex and duplicative reporting requirements
- Need to develop and manage interfaces with many systems
- Financial cost to all parties and costs associated with timeliness and accuracy of reporting data
‘Next Generation’ Requirements

1. Support implementation of all related EU policies
2. Facilitate and support management of changes in regulatory requirements and associated support applications
3. Provide common, standardised interface for submission of all regulatory information, irrespective of mode or country
4. Facilitate exchange of regulatory information across modes and Authorities
5. Increase accessibility of statistics, such as transportation CO₂ footprint and other sustainability indicators
6. Harmonise and unify the many Single Window initiatives
Next Generation SW Concepts

Central EU National Single Window Support Services

- Information Services and Databases
- Central Register of CRGs
- Manage Regulatory Information Changes
- EU Information Exchange

Next Generation National Single Window

- CRG
- Information Exchange

Business

CRS

Mode-Specific Authorities
- Border Control
- Customs
- Food and Veterinary
- Safety and Security

CRS = Common Regulatory Schema

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Next Generation SW Concepts

Central EU Support Services

Member State NSW

Member State NSW

Member State NSW

Member State NSW

Member State NSW

EU

Manage
Central EU National Single Window Support Services

- Information Services and Databases
- Central Register of CRGs
- Manage Regulatory Information Changes
- EU Information Exchange

- Allows Authorities to exchange and share information with Authorities in other Member States
- Supports co-operation in safety, security and environmental risk management on an EU level
- Includes systems such as SafeSeaNet

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Common Reporting Gateway (CRG)

Central EU National Single Window Support Services
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Next Generation National Single Window
- Business
- CRS
- CRG
- Information Exchange

Mode-Specific Authorities
- Border Control
- Customs
- Food and Veterinary
- Safety and Security

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Common Reporting Gateway (CRG)

• Capabilities:

1. Provides standardised, electronic reporting interface
   - Information submitted in format defined by the Common Regulatory Schema (CRS)
   - One interface for transport formalities and customs declarations

2. Automatically performs validation of submissions

3. Handles input from different parties and presents responses from Authorities

4. Can use distributed configuration within Member State (integration with local legacy systems)
CRG Configurations

Business

CRG

Information Exchange

Authorities

Business

Legacy System (e.g. PCS)

Authorities

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CRG Configurations

Business

CRG

Information Exchange

Authorities

Business

CRG

Legacy System (e.g. PCS)

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Information Exchange (IE)

Central EU National Single Window Support Services
- Information Services and Databases
- Central Register of CRGs
- Manage Regulatory Information Changes
- EU Information Exchange

Next Generation National Single Window
- Information Exchange

Business → CRS → CRG

Mode-Specific Authorities
- Border Control
- Customs
- Food and Veterinary
- Safety and Security

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• Capabilities:

1. Send submissions and integrate existing regulatory systems within Member State

2. Provide National Authorities with access to central database of all regulatory information in Member State

3. Exchange information between Authorities, with EU level systems and with neighbouring Member States

4. Fuse and analyse data to support risk management activities by providing statistical information and alerts
Information Exchange

- Transport Authority
- Border Control
- Customs
- Food and Veterinary Services
- Safety and Security Services
- Neighbour Member State
- EU Data Exchange
- EU Systems (e.g. SSN, TRACES)

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Latvia Pilot Solution

Security Police
Web interfaces, customised for each user service

Electronic interfaces, (web services, EDI, SMS) on, Border Guard, Food & Veterinary Services

Stena, Jan de Rijk, Schenker

Transport Business (e.g. Customs Broker)

Existing Local Application

Transport Business (e.g. STE)

Web App

NG-NSW

MEMBER STATE (e.g. Latvia)

Competent Authority (e.g. Security Police)

Existing Local Application

National Authority (e.g. Customs)

Security Police
Web interfaces, customised for each user service

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Competent Authority (e.g. Security Police)

Existing Local Application

National Authority (e.g. Customs)
Questions & Discussion

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• **Reporting situation today:**
  
  – Regulation and transport formalities pose barriers to efficient trade
  
  – Extensive range of agency-specific and country-specific requirements and systems/interfaces
  
  – Little or no co-ordination or co-operation between systems and parties
  
  – Duplicative and redundant reporting requirements for traders and transport operators
  
  – Need to develop and manage interfaces with many systems
  
  – Financial cost to all parties and cost associated with timeliness and accuracy of reporting data
Single Window Initiatives

- UN Single Window Concept (Recommendation 33)
- Initiatives at International Level
  - WCO, APEC, ASEAN
- Initiatives at National level (outside EU)
  - **Canada:** Canada Border Services Agency (Customs, Immigration, Health, Food and Veterinary)
  - **Ghana:** TRADENET + GCMS (Trade, Customs)
  - **Indonesia:** TradeNet + PortNet → INSW Portal (Trade, Ports)
  - **Peru:** Peruvian Single Window (Trade, Customs)
Single Window Initiatives

- EU level initiatives
  - Customs Single Windows (ICS/ECS) (Modernised Customs Code Programme)
  - Single Administrative Document (SAD) and Entry Summary Declaration (ENS) to support e-Customs
  - Maritime Transport Single Windows (VTM and Ship Formalities Directives)
  - e-Freight, e-Maritime, RIS, TAF/TSI, ITS...
Single Window Initiatives

- Different strategies and implementations at National level:
  1. Maritime Transport Single Windows driven by SafeSeaNet requirements
  2. e-Customs driving National customs applications
     - **Finland**: combined Maritime + Customs system, motivated by efficiency gains
     - **Latvia**: Separate Customs system and SSN application (acting like Maritime Transport Single Window)
     - **France**: Dematerialised customs clearance system, leading to integration with banks, insurance firms, etc.
Stakeholder Requirements

• Transport Business
  – e.g. shippers, freight forwarders, transport operators
  – Report regulatory information in a standard format, irrespective of destination and mode
  – Submit information electronically, ideally extracted automatically from operational processes
  – Easily manage changes arising from new or updated regulations
Stakeholder Requirements

• National Authorities
  – e.g. Customs, Port State Control, Security, Health
  – Enforce regulations efficiently
  – Easily manage changes arising from new or updated regulations
  – Co-operate with Authorities in different countries

• The EU
  – Support the implementation of policy and therefore facilitate the above requirements
  – Manage changes to regulatory requirements easily and efficiently
Definitions

• **Next Generation EU Single Window**
  – Facility for sharing and exchange of information between Member States at an EU level
  – Centralised management of changes and updates to regulatory reporting specifications and requirements
  – Central registry of Next Generation National Single Windows

• **Next Generation National Single Window:**
  – Standardised interface and centralised storage for all reporting requirements (all modes and customs) within a Member State
  – Facility for the sharing and exchange of information between National Authorities within and across Member States
NG EU SW Capabilities

- EU Information Exchange
  - Allows Authorities to exchange and share information with Authorities in other Member States
  - Supports co-operation in safety, security and environmental risk management on an EU level
  - Includes systems such as SafeSeaNet

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• **Manage Regulatory Information Changes**
  
  – Allows EU to lodge changes to reporting specifications in central location
  
  – All NSW applications across Member States are automatically updated
• **Central Register of CRGs**
  
  – Allows transport businesses to discover where to report (“Address Book” of CRGs)
  
  – Authorities in Member States register new NSW systems and manage updates to contact details
• **EU Services and Databases**
  – Inherent capability to provide additional services to transport business and Authorities
  – Statistical information (data mining)
  – Databases
    • EU ship/hull database
    • Database of registered operators
NG National Single Window

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Common Reporting Gateway

Shipper, Forwarder, Operator, etc...

Business Connector (CRS/Responses)

Fetch Data → Validate Submission → Handle Responses

Send to Information Exchange

Local Data

Send to Local System

Information Exchange Connector

Legacy System Adapter

Response Messages

To Information Exchange

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Information Exchange

CRG Connector

To CRG(s)

- Notify EU Systems
- Notify NSWs
- Notify Authorities
- Respond to CRG
- Receive from CRG

Submitted Data

Extra Data

Member State Data

Integrate and Analyse Data

Handle Input from Authorities and NSWs

Obtain Information from EU Systems

Present Stored Data

Web Services

Web Forms

Electronic Messages

Email & SMS

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Summary

Producer
Forwarder
Ship Agent
LSP/LSC (Transport Business)

Transport Regulator (Authorities)
- Harbour Master
- Health Authority
- Customs (ICS)
- Coast Guard

Notifications, Statistics, Alerts

EU Systems

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Summary

- **Transport Businesses:**
  - must only manage a single, standardised, electronic interface for all reporting requirements
  - information must only be reported once

- **Authorities:**
  - integration of existing systems
  - increase effectiveness of regulatory processes

- **Information can be exchanged on National and EU levels, and with neighbouring countries to enhance safety, security and environmental risk management**
Summary

• Support for management of changes to regulatory information requirements
  – EU policies
  – e-Freight Framework standard messages
  – Sharing and co-operation agreements at National and EU levels

• Capabilities for providing extra services
  – EU databases
  – Statistical reporting
Latvia Pilot Solution

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Latvia Pilot Solution

Consignment

Producer

LSP/LSC (Transport Business)

Forwarder

Ship Agent

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