IPCSA – Port Community Systems and the use of UN/CEFACT standards

14th International Capacity-Building Seminar on Trade and Transport Facilitation
Baku – Azerbaijan, 23rd May 2023
“A Community of Communities”

- 50 Members operating in over 50 Countries
- Members Operating in excess of 500 Sea Air Ports, Inland terminals & border crossings
- Seaports, Airports, PCS Operators, Single Window Operators
- Over 50bn electronic exchanges per annum and 1.5m+ users
- Covering 500m + TEUS 20bn + Tonnes of cargo
“Benefits of a PCS”
Reduction of Container Dwell Times

PPL 33-35, Odessa, Ukraine – in 2 years from 40 days to maximum 1 hour, in many cases under a minute to be available for collection.

PORTNET, Morocco – Reduction to 2-3 days in dwell time from over 30 days. PCS linked to Single Window.

SEGUB, Togo, West Africa – Reduction of 30+ days to 3 days in two years – PCS connected to Single Window.
How does IPCSA promote UN/CEFACT standards?

- PCSs and Single Windows within IPCSA implement the UN/CEFACT-standards over more than 30 years.
- Through IPCSA’s Port Message Design Group (PROTECT) our members engaged in the globally used international standard message for declaring dangerous goods to relevant authorities – by UN/CEFACT acknowledged and published IFTDGN-message:
  - used for all transport modes
  - PROTECT’s other implemented UN/CEFACT messages: BERMAN & WASDIS
- SMDG-based Container Messages are implemented globally by all members.
How does IPCSA promote UN/CEFACT standards?

IPCSA is currently leading 2 UN/CEFACT projects:

- **IMO e-FAL** project, to map IMO FAL Compendium data sets into the MMT-model, with the aim to develop MMT-based APIs for IMO FAL-required declarations

- **IFTDGN Revision** project: map IFTDGN to MMT, develop API-based message next to edifact-version, and discuss with global partners and stakeholders the extension of a more widespread use of messages related to dangerous substances and critical cargo

- Reaching out to DCSA-standards in port environments (based on UN/CEFACT)

- Extend and promote implementations of IFTxxx-messages for inland and hinterland stakeholders – barge and rail
“Facilitate a neutral, global, scalable and collaborative solution among PCSs and Single Windows based on APIs, facilitated by IPCSA.

To share and exchange data Port to Port and Cross Border and to simplify the associated administrative and technical solutions”

IPCSA Members as a whole operate in over 500 Sea and Air Ports in over 50 countries.
Facilitate a neutral, global, scalable and collaborative solution among PCS and Single Windows based initially on Track & Trace APIs, facilitated by IPCSA. To share and exchange data Port to Port and Cross Border and to simplify the associated administrative and technical solutions.

**Principles**

- Governance Platform
- Global Data Standards
- Electronic Fee Negotiation
- Encrypted Data
- Allows for different business models
- Low cost to Platforms and thus end users
- Neutral & Not for Profit
- Structured Contractual Flows
- Digital Handshake
- User Services & Platform Maintenance
- Standard Platform APIs
- Local Authentication

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Cross Border and Port to Port Exchange

IPCSA considered what we know and use everyday......

Catalogue of Standards
Choice of Ports & Services
Encrypted Exchange
Port Community Systems

......adapted them to allow for
Port to Port and Cross Border Exchange of Information between platforms for the benefit of their users
Cross Border and Port to Port Exchange

API's

IPCSA will, during the Proof of Concept, define sets of collaborative use cases to standardise the communication between PCS. Initially focused on Maritime Port call information and Shipment information, though this will extend to all modes of transport including Air and Land.

**Portcall**
Receive a real-time overview of the time of arrival and departure of vessels from ports across the world in order to support your users planning of port operations and cargo movement.

**Cargo status**
The PCS client accesses this service in order to get track and trace data of an equipment loaded or discharged at a certain port shipment.

**BIC facility codes**
Consult the BIC Facility Code Register.

**UN/Locode**
Use the UN/LOCODE dataset with ease in your applications.

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Powered by NxtPort
NoTN proposition for a multimodal trade corridor

- Extend (next to PortCall & CargoStatus APIs) the NoTN with other necessary APIs for cross-border trade in the Caspian, and possibly the Black Sea, region
  - CIM/SMGS Consignment Note
  - hinterland (rail) – track & trace APIs
  - ...
- Connect the relevant Ports and Port Environments, both maritime and inland, for mutual exchange of cross-border information on the status of cargo
- Easy setup for implementation, low threshold to connect, secure connection and proven technology – short lead time towards piloting phase with minimal costs through the NoTN facilitation platform
THANK YOU

Please send e-mails or questions you may have as we always are welcome for discussion and collaboration.

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