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

14th International Capacity-Building Seminar on Trade and Transport Facilitation

Baku – Azerbaijan, 23th May 2023







"A Community of Communities"



50 Members operating in over 50 Countries



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







IPCSA MEMBERS 2023



DAKOSY

MCP plc

be smart. get connected. portbase

PRINCE RUPERT

LINKING A WORLD OF OPPORTUNITY

Port of **Antwerp**

Bruges

TANGER MED PORT AUTHORITY















Autorità di Sistema Portuale del Mare Adriatico Orientale Porti di Trieste e Monfalcone

































Copyright ©IPCSA 2023

porto... Sines





valenciaport

Autoridad Portuaria de Valencia



TRADE-VAN





















Autorità di Sistema Portuale

Port of Ravenna



DT World













دبـايالـتـجـاريــة DUBAI TRADE

BARBADOS PORT INC.







IPCSA Representation, Collaborations and working relationships

WØRLD ECONOMIC FORUM



TAXATION AND CUSTOMS UNION

Global &

Regional Trade Associations and

Organisations



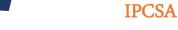












INTERNATIONAL

Core Representation,

Partnerships, Collaborations

& working relationships



Digital Trade Standards Initiative (DSI)



























WCO Private Sector Consultative Group







Inter-American Development Bank

THE WORLD BANK









"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 then 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





Connecting and sharing data globally between ports and cross border

Pilot Phase until Mid 2023

"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"







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







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 be 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.

Powered by IPCSA

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).

Powered by IPCSA

BIC facility codes

Consult the BIC Facility Code Register

Powered by BIC

UN/Locode

Use the UN/LOCODE dataset with ease in your applications

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







Connecting and sharing data globally between ports and cross border



THANK YOU

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

Nico De Cauwer Secretary-General, IPCSA

<u>nico.decauwer@ipcsa.international</u> <u>https://ipcsa.international</u>