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SHIPS AND PORTS NEED TO BE CONNECTED!

Connected ports (origin)

Port call optimization

Port call synchronization

Connected ships

Voyage optimization

Port call synchronization

Connected ports (destination)

Port call optimization

Port call synchronization

Enabling connectivity to hinterland for sustainable transport systems

Enabling connectivity to hinterland for sustainable transport systems

Port-to-port collaboration (optimization and synchronization)

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STM
SEA TRAFFIC MANAGEMENT

RISE
PortCDM: Inter-operable concept for sharing time stamps

- Shipping ERP
- TOS
- PMS
- FOC

PortCDM information service system

- Previous / next port
- Port Community Systems (PCS)
- Service provider’s system
- Hinterland operator’s system
- AIS
- Ship ECDIS
- VTMIS
- NSW

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Infrastructure Layer Model

**System Interaction for PortCDM compliance**

- **Port call actors**
  - Ships / shipping companies
  - Port call service providers
  - Terminals
  - Port authorities
  - Ports
  - Maritime authorities

- **PortCDM/STM compliant service discovery**

- **PortCDM/STM compliant service distribution**

- **PortCDM services (PACT, analytics, port call actor specific services etc.)**

- **Application for manual time stamp provision**

- **PortCDM service provider**
  - PortCDM data consumption interface (subscription)

- **PortCDM information hub**
  - (Message broker, port call manager, API's etc)
  - (EMPOWERING PORT A)
  - PortCDM compliant submission
  - PortCDM compliant port
  - PortCDM compliant actor using PortCDM compliant systems

- **PortCDM information hub**
  - (Message broker, port call manager, API's etc)
  - (EMPOWERING PORT B)
  - PortCDM compliant port-to-port communication

**Port of X**

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Towards common instant information sharing

Actor 1
Actor 2
Actor 3
Actor 4

Port CDM information services

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The role of the PortCDM Council

- Guiding principles
- Organization
- Tools & support
- Basis for the PortCDM council

Governance

- Certification (for issuing of compliance of solutions)
- Membership management and growth
- Federative recruitment of actors
- Maintenance and development of standards
- Dissemination and Best Practice distribution
- Quality Assurance (Concept)

Tasks for the PortCDM council

Coordinated use and development of the digitized port in context

Common goals (and KPI's)

Objective for the PortCDM council

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Compliancy Aspects

Conceptual Compliancy

Technical Compliancy  Operational Compliancy
Compliancy

Vertical Compliancy Levels
– Within a Port

Horizontal Compliancy Levels
– Between Ports globally

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Next Steps in PortCDM

• Developing Compliancy Documents and adopting it in International PortCDM Council
• Developing S-2xx for PCMF and get it endorsed by IALA and referenced by IEC
• Establishing Regional and/or national coordination clusters
• Certify PortCDM systems (compliancy acceptance)
• Establish PortCDM in key ports
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THINK DIFFERENT
MAKE THINGS HAPPEN
MAKE A DIFFERENCE

For questions do not hesitate to contact:

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