

Secure Container Release

The electronic Delivery Order solution

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www.securecontainerrelease.com

Team

- > In-house expertise in Maritime & Technology
- > All key positions staffed internally
- > 14 FTE on board

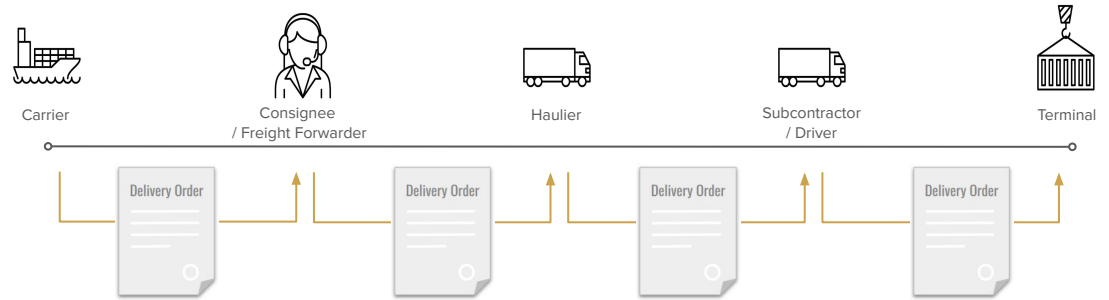
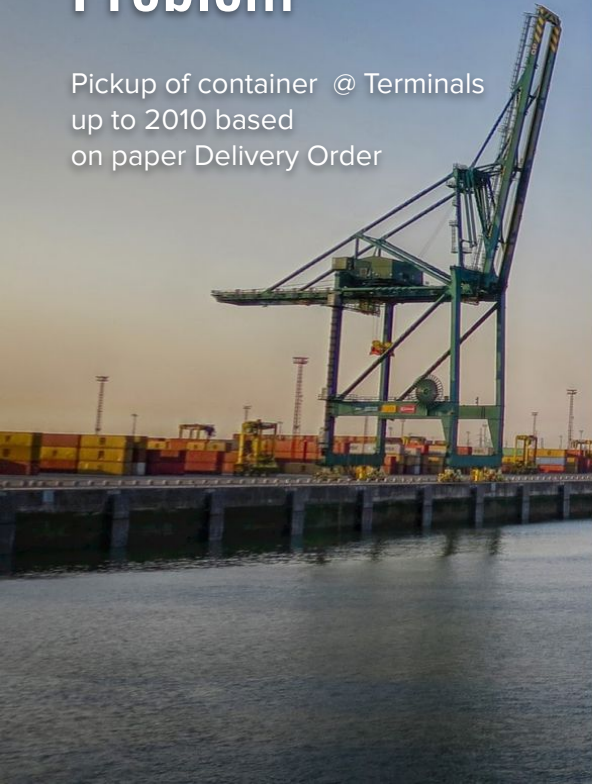
T-Mining

- > Founded in 2016, HQ in Antwerp
- > Active in Port of Antwerp & Rotterdam



Problem

Pickup of container @ Terminals up to 2010 based on paper Delivery Order

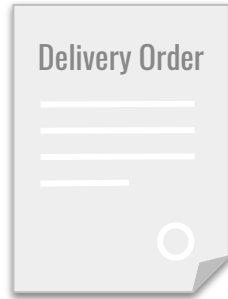


Disadvantages of paper Delivery Order

- prone for fraude
- labour intensive / manual process
- paper gets lost
- no last minute changes possible

Solution

introduced in 2010



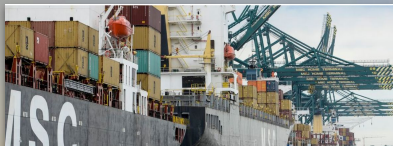
123456

Before
Delivery Order
paper-based

2010
PIN-code
email-based + coreor EDI

Problem

PIN-code fraud



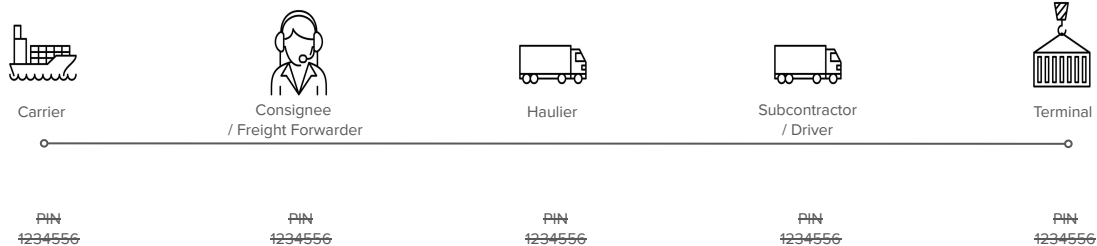
CEO havenbedrijf MSC waarschuwt medewerkers: "Drugsbendes speuren naar jullie op sociale media"



European Monitoring Centre for Drugs and Drug Addiction



EU Drug Markets Report



Risks related to PIN-code fraud

- staff exposed to organised crime
- pincodes are intercepted/ duplicated

Better Solution

Secure Container Release (SCR) tokenizes the right to pick up a container, ie. an electronic Delivery Order.

Using blockchain, this right can now be transferred between all parties involved without any pincodes.



Before
Delivery Order
paper-based



123456

2010
PIN-code
email-based & EDI



2020
Secure Container Release
blockchain-based

Benefits of SCR

- replacing PIN-codes by secure tokens
- creating a more efficient & digital process between all parties
- aligned with DCSA shipment release process
- digital flow between all parties via web-app or API
- multi-port, multi-carrier & multi-modal

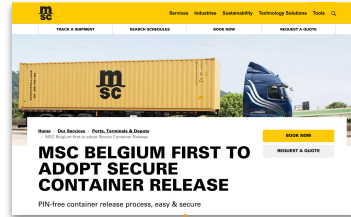


Track record

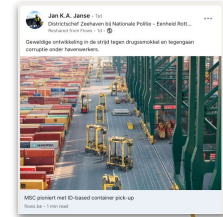
SCR has a proven track record and is used in production since March 2020 by MSC Belgium. Both Hapag Lloyd and CMA CGM has joined SCR.

In 2023, MPET has become the first terminal to adopt the SCR Secure Container Pickup.

SCR is compliant with local port regulations in Antwerp (CPU) and offers connectivity with local Port Community Systems.

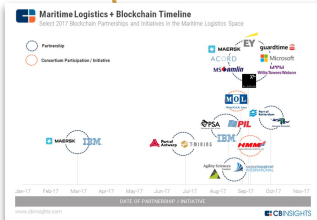


Q1 2020
MSC Belgium pioneers with SCR in Port of Antwerp



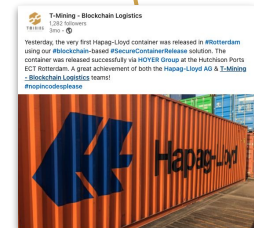
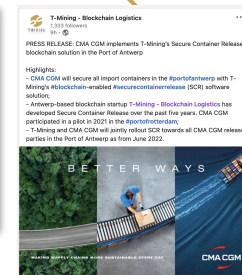
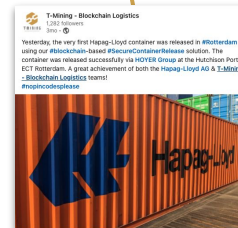
Q1 2023
MPET first terminal to connect to SCR in Port of Antwerp

Q3 2017
SCR first blockchain enabled PoC in the world



Q3 2021
Hapag Lloyd joins SCR.

Q1 2022
CMA CGM joins SCR.



Phased rollout

A phased approach ensures a smooth adoption, allowing a gradual transition towards the new way of working and reduces friction.

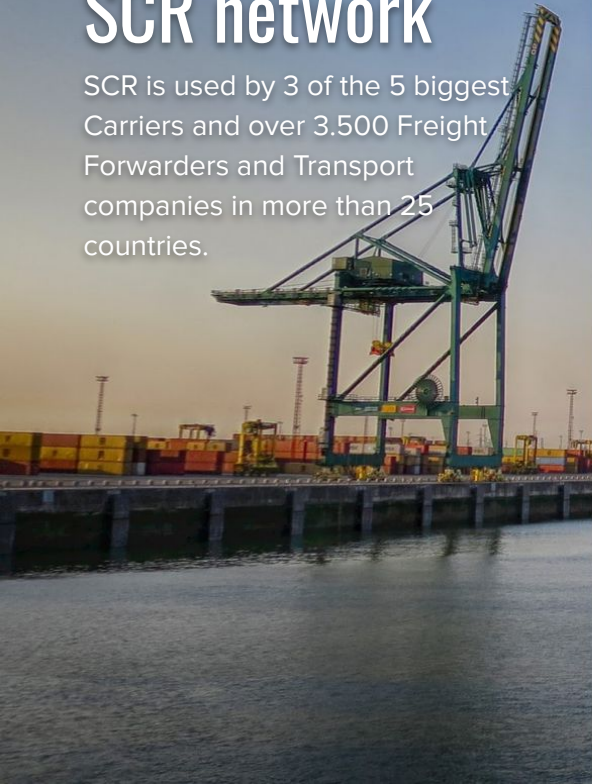
Today, Phase III is in production at MPET in Antwerp



Phase I	Secure Release	PIN-code old way of working	
Phase II	Secure Release	Secure Transfer	PIN-code old way of working
Phase III	Secure Release	Secure Transfer	Secure Pick-up

SCR network

SCR is used by 3 of the 5 biggest Carriers and over 3.500 Freight Forwarders and Transport companies in more than 25 countries.



Antwerp & Bruges

In production

>4.500

consignees, freight forwarders & transport companies connected

MPET

in Phase III

Rotterdam

In production

>25

countries

>15

in Phase II

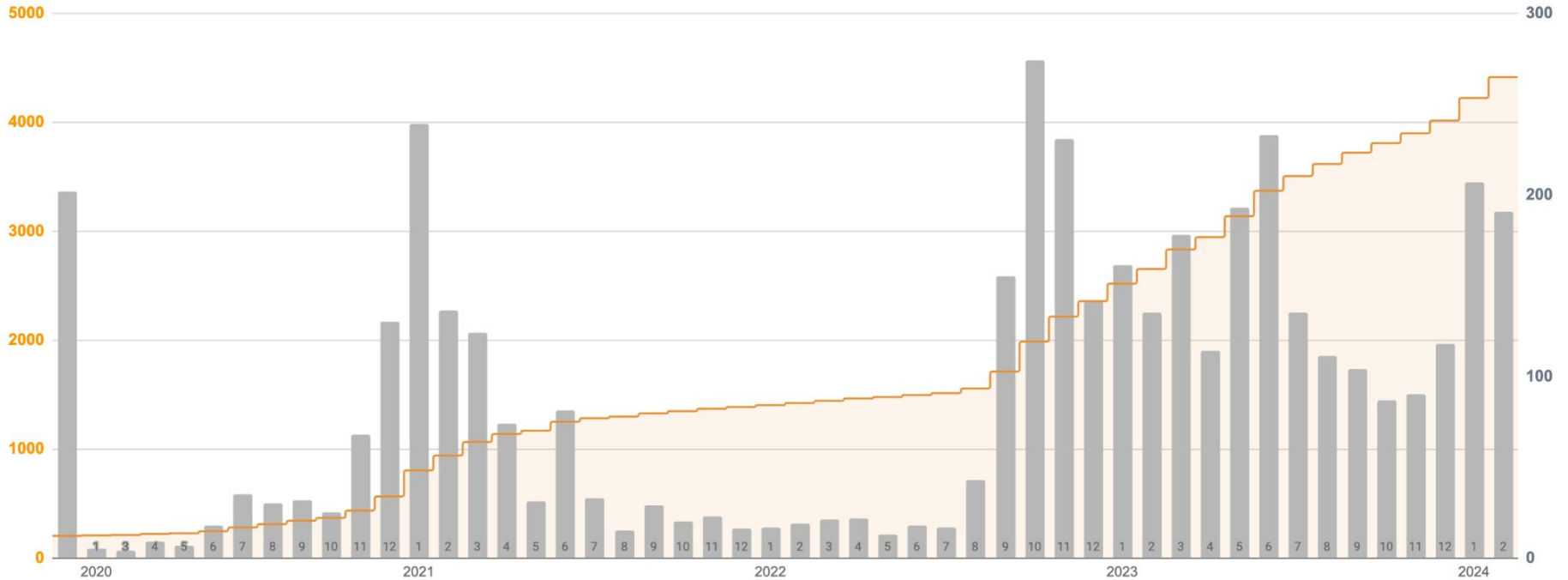
pre-integrated with



SCR Network

of Companies on
SCR

of Onboardings
to SCR



Keep it simple

Decentralised technologies like blockchain shouldn't be complex or hard to use.

In the Cloud

- zero configuration for easy & instant onboarding
- for users with limited ICT infrastructure

On premise

- software installed in your company network
- for maximum security and privacy

Web app

- easy to access
- always online

API

- fully integrated process
- building further on your ERP / software stack

SCR web-app: Release overview

▼ Show dashboard 🍷

View per BL

View per Container 🍷

🔍 | _____ X

🔍 ☰ ☰ + ?

>	Bill of lading	Secure Pick-up	Vessel	Agent	Stay Number	Lloyds Number	Voyage Number	
>	BLUEBB2208	Secure Pick-up	MSC MIKE	MSC Belgium	99785	3EPZ	305B	SECURE PICK-UP ▼
>	TEST20230302-NOTIF	Secure Pick-up	MSC KIM	MSC Belgium	99785	3EPZ	305A	SECURE PICK-UP ▼
>	TEST20230316-NTF	Secure Pick-up	MSC KIMMM	MSC Belgium	99785	3EPZ	305A	SECURE PICK-UP ▼
>	TEST20230317-NTF	Secure Pick-up	MSC KIM	MSC Belgium	99785	3EPZ	305A	SECURE PICK-UP ▼
>	TEST20230823	Secure Pick-up	MSC JOJO	MSC Belgium	648851	3FA85	301A	SECURE PICK-UP ▼
>	TEST20230824	Secure Pick-up	MSC Kim	MSC Belgium	648851	3FA85	301A	SECURE PICK-UP ▼
>	TEST20230918	Secure Pick-up	MSC Kim	MSC Belgium	648851	3FA85	301A	SECURE PICK-UP ▼
>	TESTBLOCK20230929	Secure Pick-up	MSC Kim	MSC Belgium	648851	3FA85	301A	SECURE PICK-UP ▼
>	TESTFH20032023-HPL	Secure Pick-up	MSC KIM	MSC Belgium	99785	3EPZ	305A	SECURE PICK-UP ▼
>	TESTFH290923	Secure Pick-up	CMA/CGM Antoine De Saint Exupery	MSC Belgium	014522	9708851	888	SECURE PICK-UP ▼



Screen dump of web application

How to Assign to your Trucker for Secure Pick-up

Assign to your Trucker

Problems? Please contact:
04 11 111 111, testest@t-mining.be

▼ Show dashboard

View per BL View per Container

Search: _____

Bill of lading	Pick-up method	Vessel	Agent	Stay Number	Lloyds Number	Voyage Number	
> TESTDEMO231211-SCR	Pick-up via SCR	Hapag-Lloyd Barzan	Hapag-Lloyd Benelux	648851	3FA85	301A	[Action icons]
> TESTDEMO231211-CPU	Pick-up via Nxtport	Hapag-Lloyd Barzan	Hapag-Lloyd Benelux	648851	3FA85	301A	[Action icons]

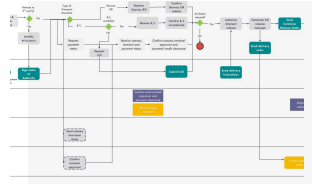
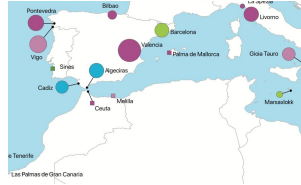
Releases per page: 50

- Transfer to next party
- Revoke my transfer
- Assign
- Unassign
- Get a pincode
- Get an Audit trail

feature/SCRDEV-1960-terminal-checks-not-visible (8cc819ff: Merged development-new into feature/SCRDEV-1960-terminal-checks-not-visible)

NEXT STEPS

Our strategy going forward



Release	Type	Order	Consignee	Date	Status	Priority
REC4750	Certificate of Origin	T-Mining Iv	53832021	04032021	ES	ACT
34	Generic	T-Mining Iv	04032021	04032021	ES	ACT
34	Generic	T-Mining Iv	04032021	04032021	ES	ACT
REC26	Certificate of Origin	T-Mining Iv	02032021	02032021	ES	ACT
34	Generic	24032021	24032021		ES	ACT
678	Certificate of Origin	24032021	02032021		ES	ACT



01 Expansion and Connectivity

Connect More Ports and Port Community Systems (PCS)

Grow volumes with the existing carriers by connecting new ports

by 2024

02 Value Proposition Enhancement

Broaden SCR Functionality Beyond PIN-code fraud

Introduce eDocs / Digital Certificates

Facilitate a paperless process, leveraging our existing SCR network. e.g. DGD / PhytO / CoO

by 2024

03 Efficient Operations

Automate Processes

Including document exchange and request for release to reduce workload.

Smart Container Release

Focusing on RBU (Retrieve Best Unit) and NMoT (Next Mode of Transport) to reduce container handling inefficiencies.

by 2025

04 Compliance and Standards

DCSA Standards

Implement emerging DCSA standards.

by 2025

Questions?

Thank you for your attention

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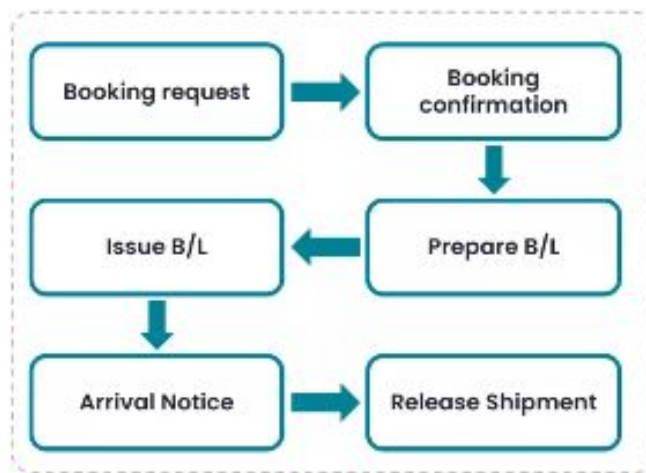
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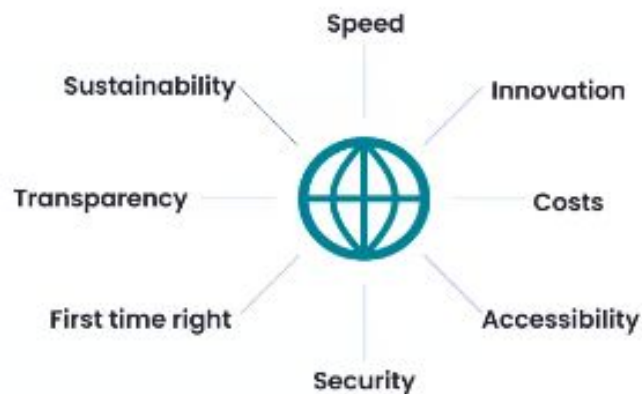
Interoperable documentation standards benefit *all* stakeholders in global trade



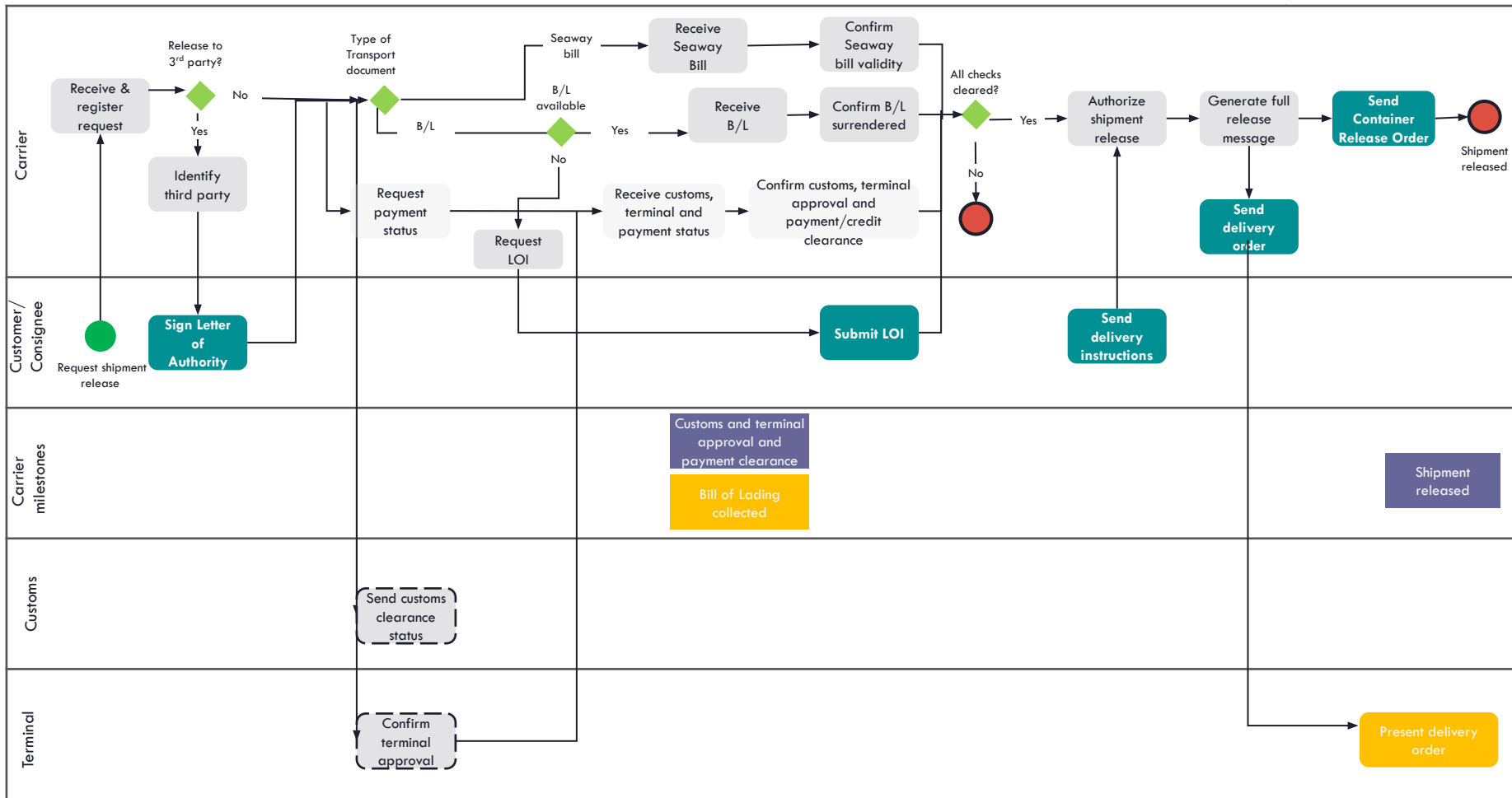
E2E documentation process for global containerized trade



Benefits of standardisation



Schematic of communication cycle in the Shipment Release process (Original DCSA)



PCS

We integrate with the local PCS, providing the required local port connectivity.

The PCS provides the interface to the Competent Authorities, Customs, Police, ...

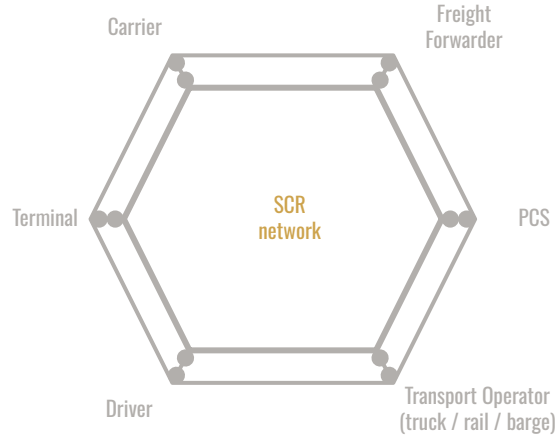
NxtPort: fully integrated

Portbase: integrating

Dakosy/dbh/GP: exploring

Business to Business

Commercial release

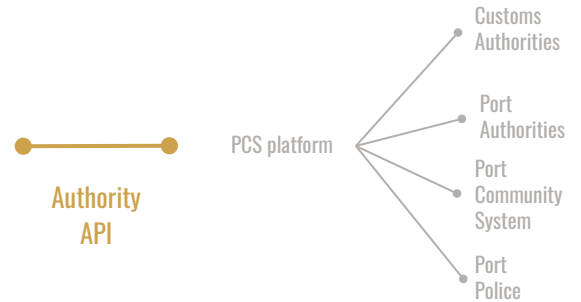


International Network

- International companies working across different ports, requiring an **multi-port** solution
- Privacy of **commercial data** should be guaranteed

Business to Government

Authority release



Facilitating Local Connectivity

- **compliance** with local regulations
- **connectivity** with local port services