



DCSA - lessons learned on standards adoption

UN/CEFACT forum

April 27, 2021

Agenda



10 min



DCSA into and lessons learned on adoption

5 min



eDocumentation - update

5 min



Closing the loop

10 min



Q&A

DCSA hosts today



Henning Schleyerbach
Chief Operating Officer



Niels Nuyens
Program Director



Dominique Willems
Director of Public Affairs &
Government Relations

Digital Container Shipping Association – standardised foundation for digitalisation



To shape the digital future of container shipping by **being the industry's collective voice**, working towards alignment and standardisation.

By **setting frameworks for effective, universally adoptable solutions and innovating**, we can enable transparent, reliable, easy to use, secure and environmentally friendly container transportation services.

Members represent **70%** of global container trade



Non-profit founded in 2019, HQ in Amsterdam

Vendor neutral, technology agnostic

Open source standards, free for everyone to use



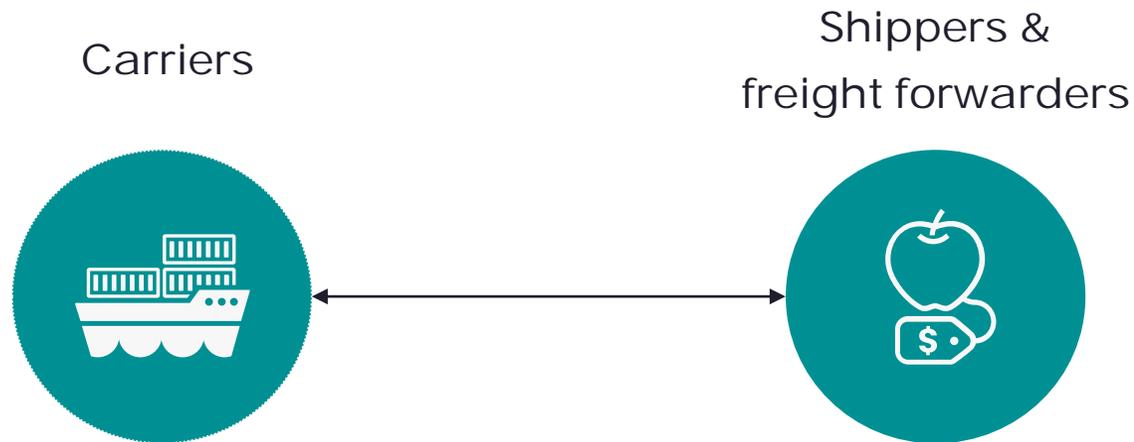
Adoption survey results, comparison and takeaway

Shippers & FFs, did your business partners talk to you about DCSA standards?



77%
"no business partner has talked to us about DCSA standards"

Shippers & FFs, did you know 5 carriers have adopted Track & Trace standards?



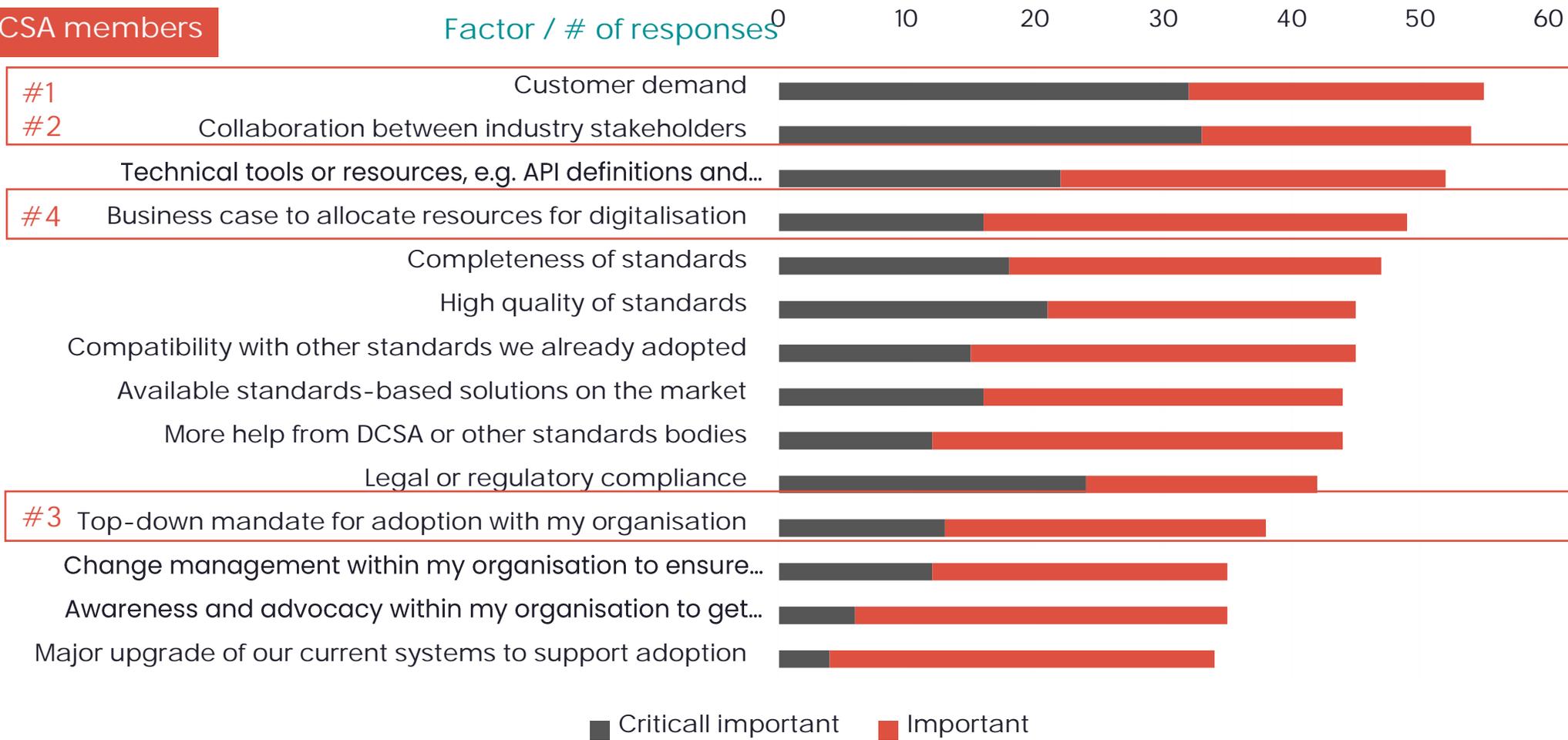
30%
"yes" (several are adopting or planning to)

61%
"no, but now we are interested to know more"

Factors most important to driving adoption in our ref users' organisations



For DCSA members



*other options not included in chart – neutral, not important, not sure or applicable

Adoption factors – need help from DCSA or already have it?



For DCSA members



*other options not included in chart – need to have it but no help needed from DCSA, not sure or applicable

Takeaway for DCSA



1

Customer demand



Reach out to more
shippers & FFs

Facilitate connection to
carriers

2

Completeness and
usability of standards



Collect industry feedback
and refine standards

Provide additional (technical)
help for adoption

3

Industry collaboration



Engage and contribute to
standards bodies like UN

Promote success stories to
encourage adoption

DCSA B/L standards to support global digital trade



DCSA's aim for standardisation and digitalisation of the B/L (and broader eDocumentation):

To implement digital standards and help drive regulatory changes, working towards a fully automated documentation process and paperless trade in container shipping, including:

A fully digitised shipment documentation process

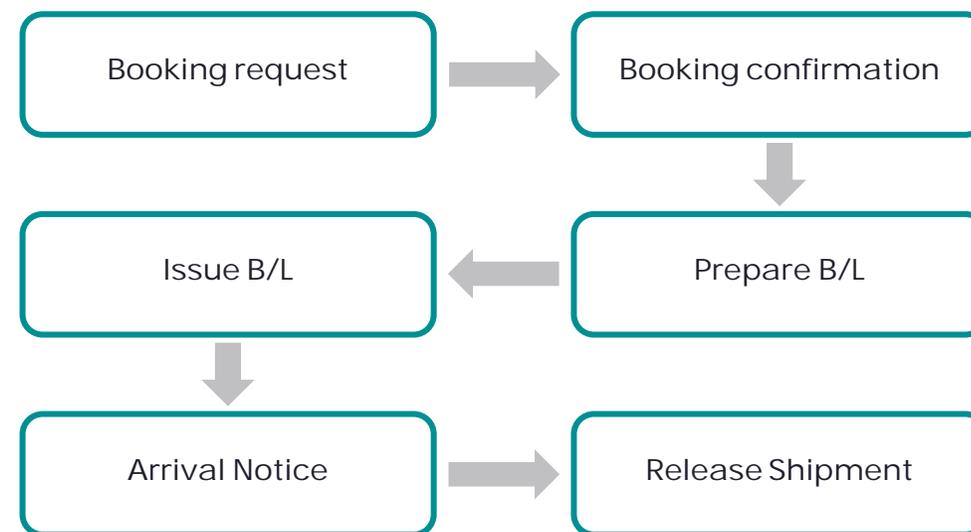
A regulatory foundation for the adoption of eBL

Security standards for enabling the digital transfer of title documents

Digitised supporting documents and certificates

Our first set of standards to support the E2E eDocumentation process and enable digital trade is focussed on:

Standardisation of the Bill of Lading, support by process maps, definitions, Interface standards and API specs.

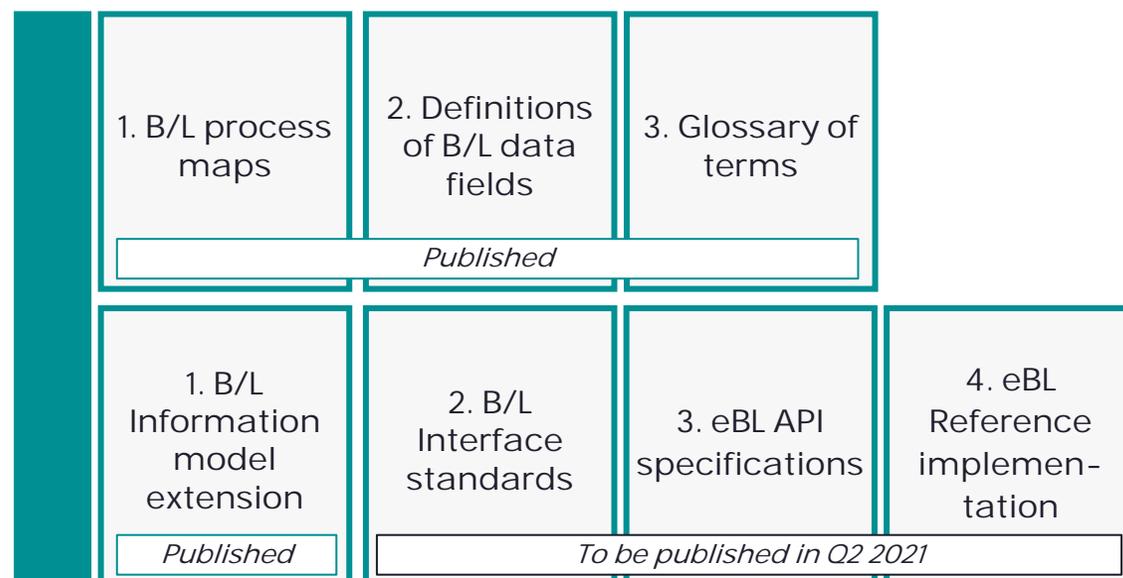


E2E documentation process

The DCSA B/L standards in building blocks



We have taken an holistic approach to identify requirements for standardization & digitalisation of the end-to-end documentation process. Based on that insight, we have focussed our efforts for standardisation & digitalisation on the Bill of Lading. We have now defined the initial set of standards:



Guiding principles

The DCSA standard is focussed on standardisation and digitalisation of the Bill of Lading. This means, the standard can also be applied to the physical process, given that there will be a period of time where both physical and digital bills will exist. This will allow the industry to move into digitalisation, by applying the standards already to the physical bills. We therefor refer to transport documents, 'electronic' is the channel used for issuance.

Closing the loop – how we would like to contribute to and benefit from UN/CEFACT



We would like to provide feedback and collaborate with UN/CEFACT on:

- Sharing of industry experience
- Improvement of data, process and technical standards
- Standard promotion and adoption
- How to ensure that when standards are adopted, either by DCSA or DCSA's stakeholders, standards are correct



DCSA aligns its standards with UN/CEFACT because:

- Established global standard for standards
- Multi Modal nature
- Covers both B2B and B2G
- Links with other domains like finance & trade

We have started to gain experience with the adoption and application in practice of DCSA standards and thereby UN/CEFACT standards



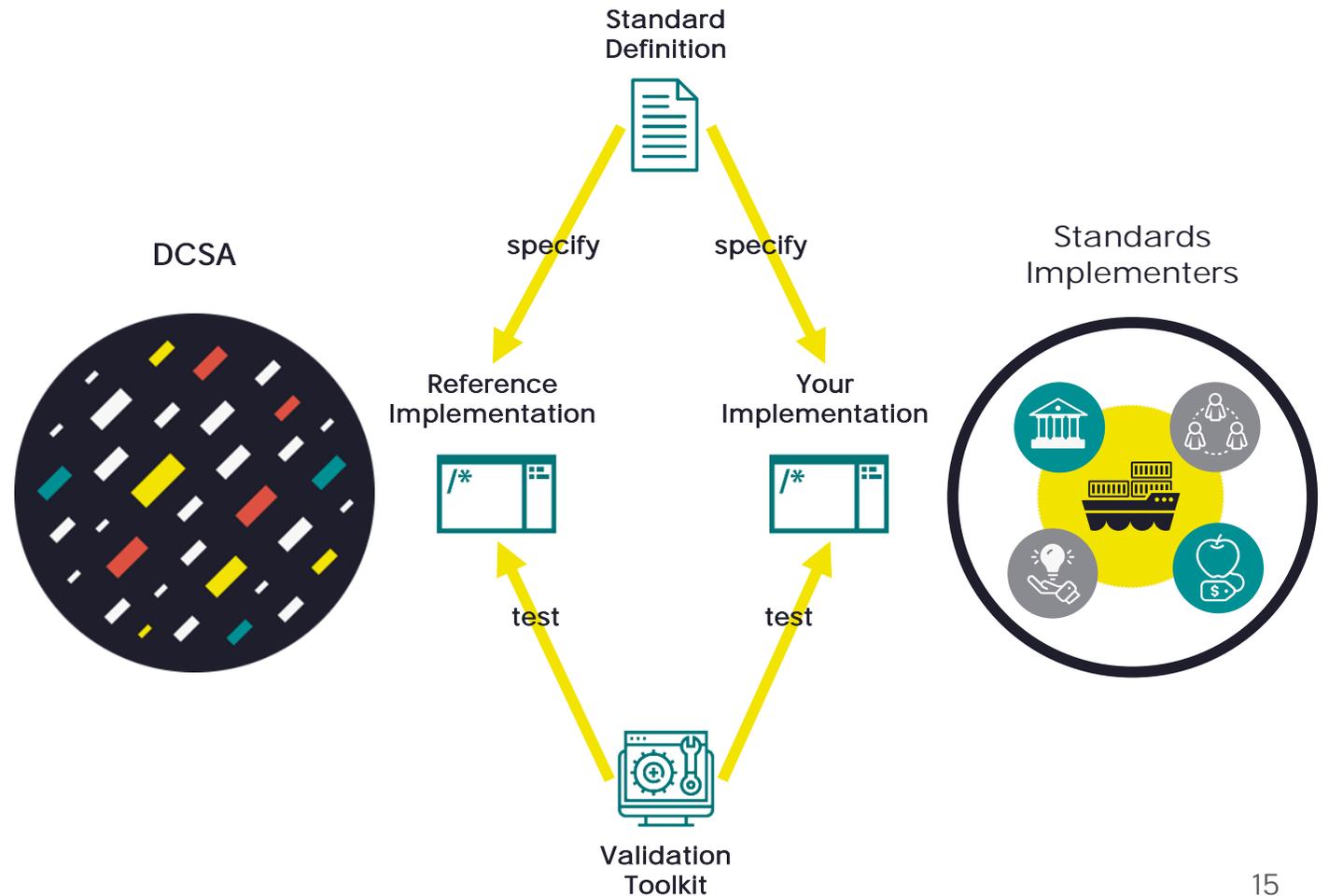
Thank you

We let you test.



It is our ambition to publish standards and supporting code at the same time

- Whenever DCSA publishes a standard defining a technical interface, it is supported by a corresponding **reference implementation** and **validation toolkit**.
- This software is published on **GitHub**. It is **free and open source**. DCSA is supporting an emerging community of developers around this software.
- Use the **reference implementation** directly or modify it to suit your needs.
- Use the validation toolkit to test your implementation and gain confidence that it interoperates in real life.



DCSA initiatives in 2021 build on the 2020 work



Industry Blueprint

Processes, milestones and messages for the container journey

Data & Interfaces

Information model, standards such as Track & Trace, Operational Vessel Schedules

Cyber Security Onboard Ships

Framework and best practices

IoT

Standards-driven interoperability between smart container solutions to deliver full visibility on container and contents

Just-in-Time Port Call

Less emissions, higher schedule reliability

eDocumentation

Simplifying global trade and eliminating paper from shipping transactions



DCSA's focus in 2021 – driving standards adoption to benefit the industry



Ensure standards meet market needs and global trade requirements



Authorities & standards bodies



Shippers and freight forwarders

DCSA and its members

Enable rapid standards adoption for interoperability



All logistics participants
(e.g. ports, terminals, banks, intermodal)



Solution providers