



# Enabling digital trade

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# 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

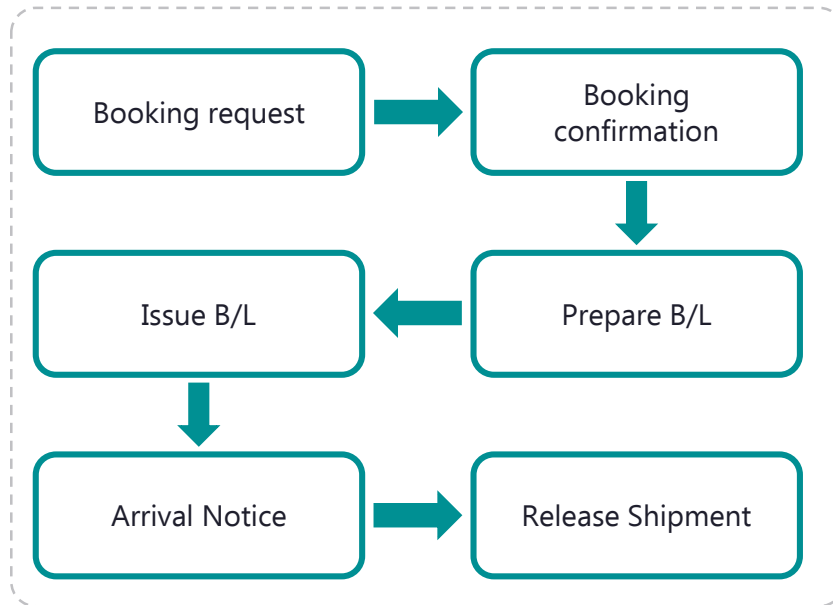
Vendor neutral, technology agnostic

Open source standards, free for everyone to use

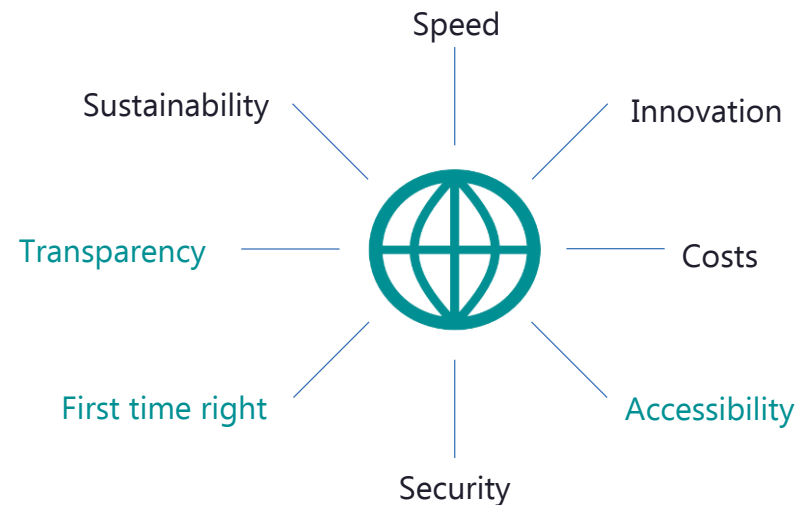
# Electronic documentation standards benefit all participants, including customs



E2E documentation process



Benefits of digitalisation



# Digitalising original bill of lading will save the industry billions, not including potential savings for the public sector



\*At a 2.4% global economic growth rate as forecasted by the OECD

# The path to standardisation



Other industries, such as banking, telecoms and airlines, have shown us that **standards are a must to create an industry-wide foundation for interoperability** that enables the seamless end-to-end flow of data. |

For customs specifically this should address highly important aspects such as the **quality and processing of the data**.

1

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Data needs to address the requirements of different industry stakeholders, particularly the customers of ocean carriers

2

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Data needs to be digitalised in a standard way

3

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Data needs to be communicated in a common way, in real time

# What we include in our standards

DCSA's publication provides industry stakeholders with a comprehensive set of documents and API developer help

- Standards and reading guide
- Information model (regularly enhanced)
- API design principles
- API definitions on SwaggerHub
- Reference implementation on GitHub
- Glossary of terms
- FAQs

```
1 openapi: 3.0.3
2 info:
3   version: 2.1.1
4   title: 'DCSA OpenAPI specification for Track & Trace'
5   description: |
6     Managing and sending Shipment-, Transport- and Equipment-events and subscriptions
7     for Track & Trace (T&T). API specification issued by DCSA.org.
8
9     For explanation to specific values or objects please refer to the <a href='https
10    ://dcsa.org/wp-content/uploads/2021/07/202108_DCSA_P1_Information-Model-v3
11    .2_Final.pdf'>Information Model v3.2</a>
12
13    Polling can be done on the <b>GET /v2/events</b> endPoint. It is also possible to
14    setup a subscription on the <b>/v2/event-subscriptions</b> endPoints in order to
15    use the push model. Here events are pushed as they occur.
16  # This API is a subset of <a href='https://app.swaggerhub.com/apis/dcsaorg
17  /EVENT_HUB'>DCSA Event Hub</a> which can send and manage all DCSA defined Events.
18  license:
19    name: Apache 2.0
20    url: http://www.apache.org/licenses/LICENSE-2.0.html
21  contact:
22    name: Digital Container Shipping Association (DCSA)
23    url: https://dcsa.org
24    email: info@dcsa.org
25  tags:
26    - name: Events
27      description: Event operations
28    - name: Subscriptions
29      description: Subscription operations
30  # - name: Secret
31  #   description: Reset secret
32  paths:
33    /events:
34      get:
35        tags:
36          - Events
37        summary: Find events.
38        description: |
39          Returns all events filtered by the queryParameters.
40
41          <b>NB</b>&#58; It is possible to combine queryParameters. When combining
42          queryParameters be aware that it is also possible to make combinations that
43          are mutual contradicting.
44
45          Example&#58; <i>shipmentEventTypeCode=DRFT and equipmentEventTypeCode=GTIN</i>
46
47          Since there is no event that can be a ShipmentEvent <u>and</u> an
48          EquipmentEvent at the same time <b>this will return an empty list</b>!
49        parameters:
50          # OBS: Be aware that changing the parameters requires a manual change in other
51          APIs
52
53          # The eventType parameter is needed when more than one Event type can be
54          returned
55          - name: eventType
```

# eBL interoperability will simplify global trade, but adoption requires collaboration



Collaboration between industry bodies to align requirements



Collaboration between DCSA and solution providers to facilitate standards adoption



# What role can authorities take in making it happen



Legal acceptance



WORLD CUSTOMS ORGANIZATION



Adoption of standards







**Thank you**