



Internet of Everything
**global data sharing with the
simplicity of the web**

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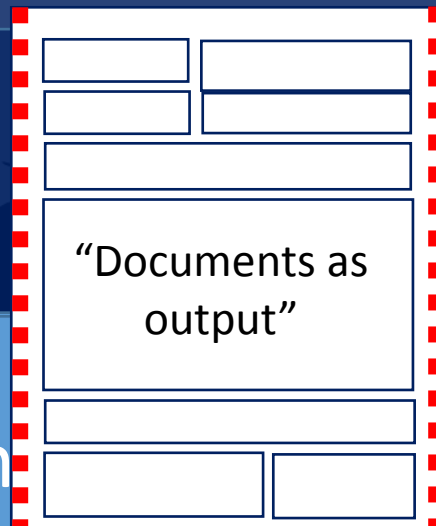
2018 WCO IT Conference and Exhibition, Lima



“Internet of Logistics”



Data substitutes documents



don't move documents



share data

if we have access to data



optimize the process

If we can't change the process



dynamic supply chain

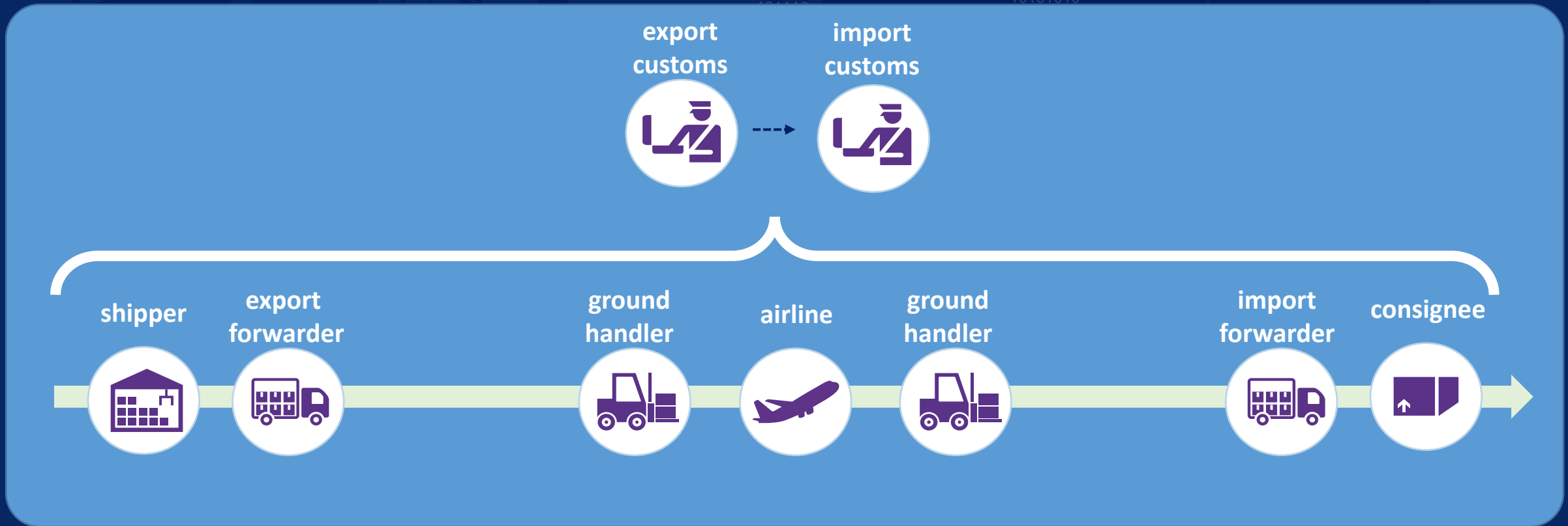
Rethinking the process



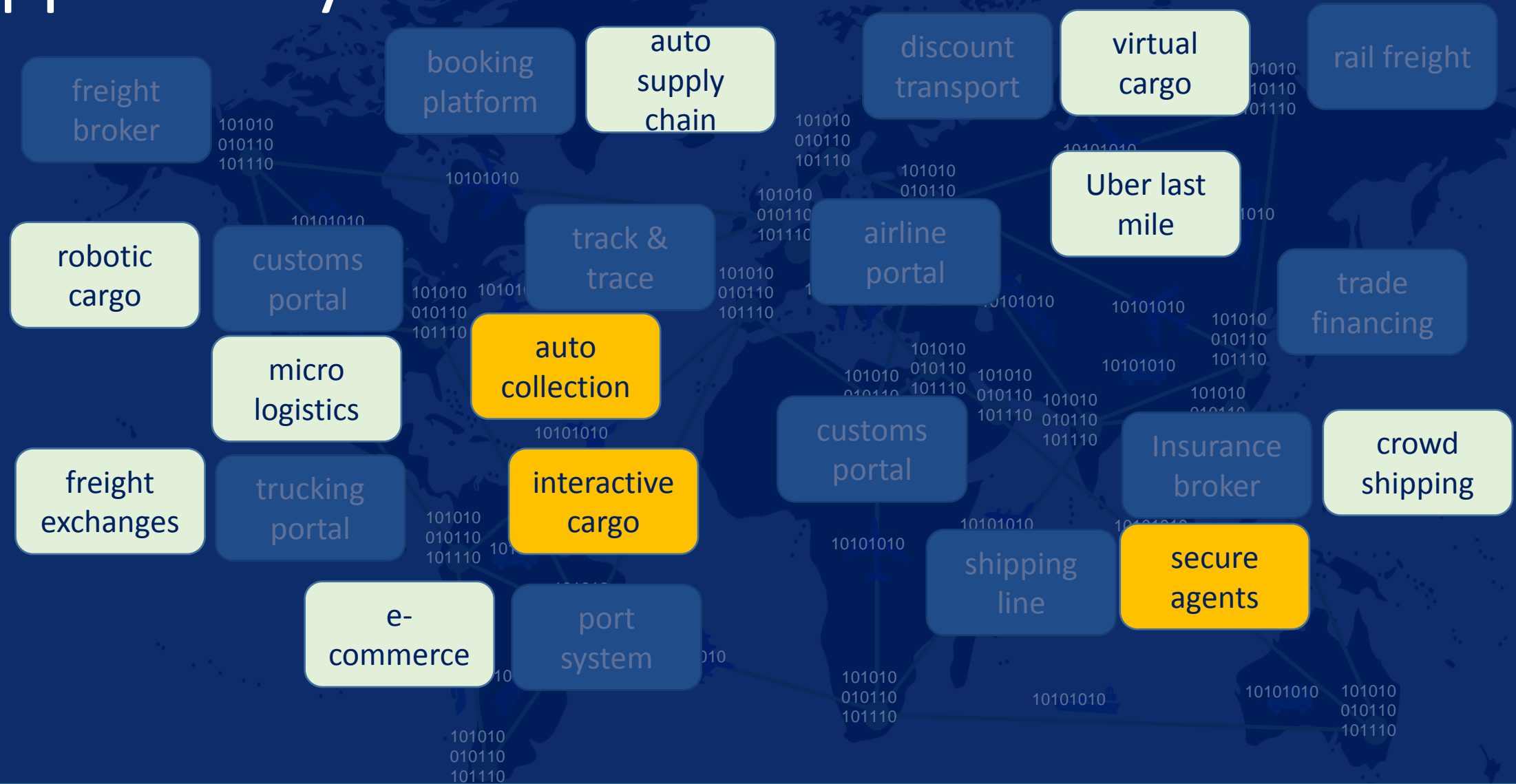
Rethinking the process

from process focus

intelligence & collaboration



Apps and Systems



ONE Record :: data sharing standard

Data standard: what we exchange

In a global transport and logistics environment there can be no single common data standards; there are many. Using ontologies (digital dictionaries) we can automatically interpret and translate data between parties

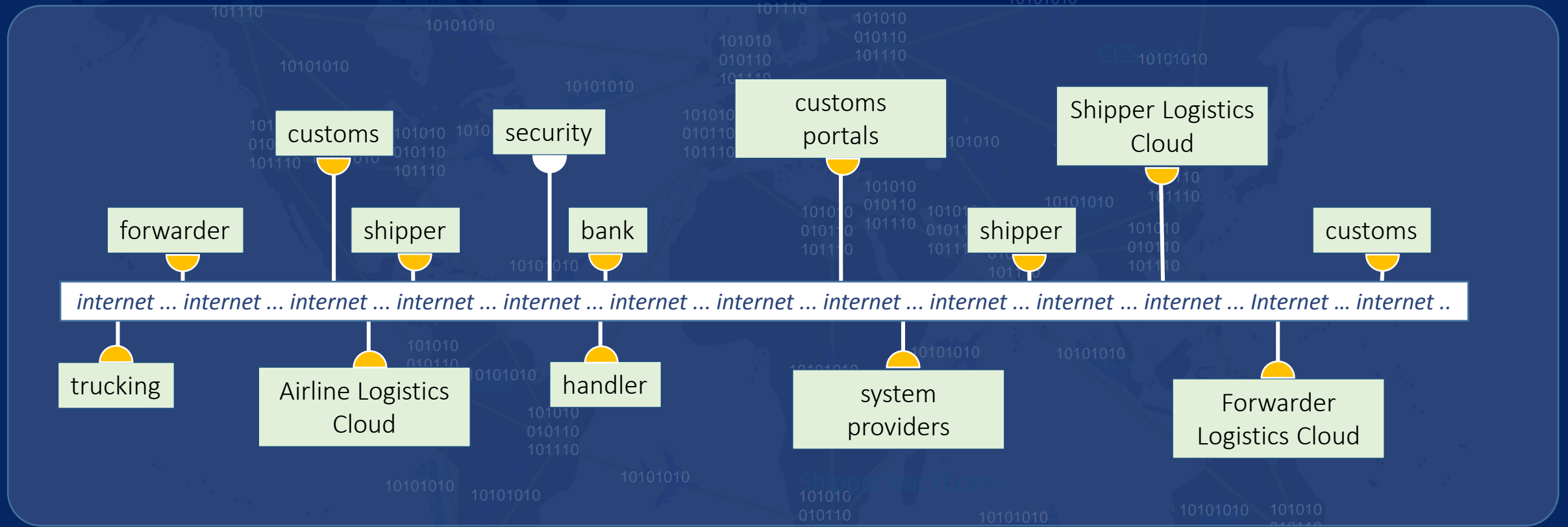
API standard: how we exchange

Web based data exchange is as old as the web (1991). Today the typical web API's are RESTful and sophisticated token based security like OAuth is easily implemented

Access governance: who can exchange

Access to the Internet of Logistics will be managed through distributed trust networks that will be managed by accredited governance entities

ONE Record :: Under the hood



ONE Record :: simplicity of the web



<https://onerecord.server.com/airline/123-1234567/awb>

ONE Record: :: making it happen

Develop

IATA's **ONE Record Task Force** is developing the ontologies (schema and vocabulary) and API standard as well as the governance and specification of trust networks

First draft → end 2018

Test

In cooperation with the Digital Cargo Forum (DCF), we are testing the data sharing concept with ontologies and API's in a real supply chain setting

Test exchanges → live already

Implement

Building on the test environment, new parties are being added to the network and the functional scope is being expanded

development, testing and implementation are done in parallel → speed is essential

Key points



Digitalization

- Complete digitalization of the global supply chain will happen.
- The Internet of Logistics is a likely scenario



Agile Supply Chain

- This will lead to new and dynamic supply chain configurations.
- Speed and agility is key.



Customs & Border Protection

- Customs and Border Protection will get high visibility and transparency.
- The focus will shift to intelligence & collaboration



ONE Record

- IATA's ONE Record standards for transport and logistics data sharing are being built today.
- First version March 2019

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010110
101110



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