



IBM Secure Trade Lane

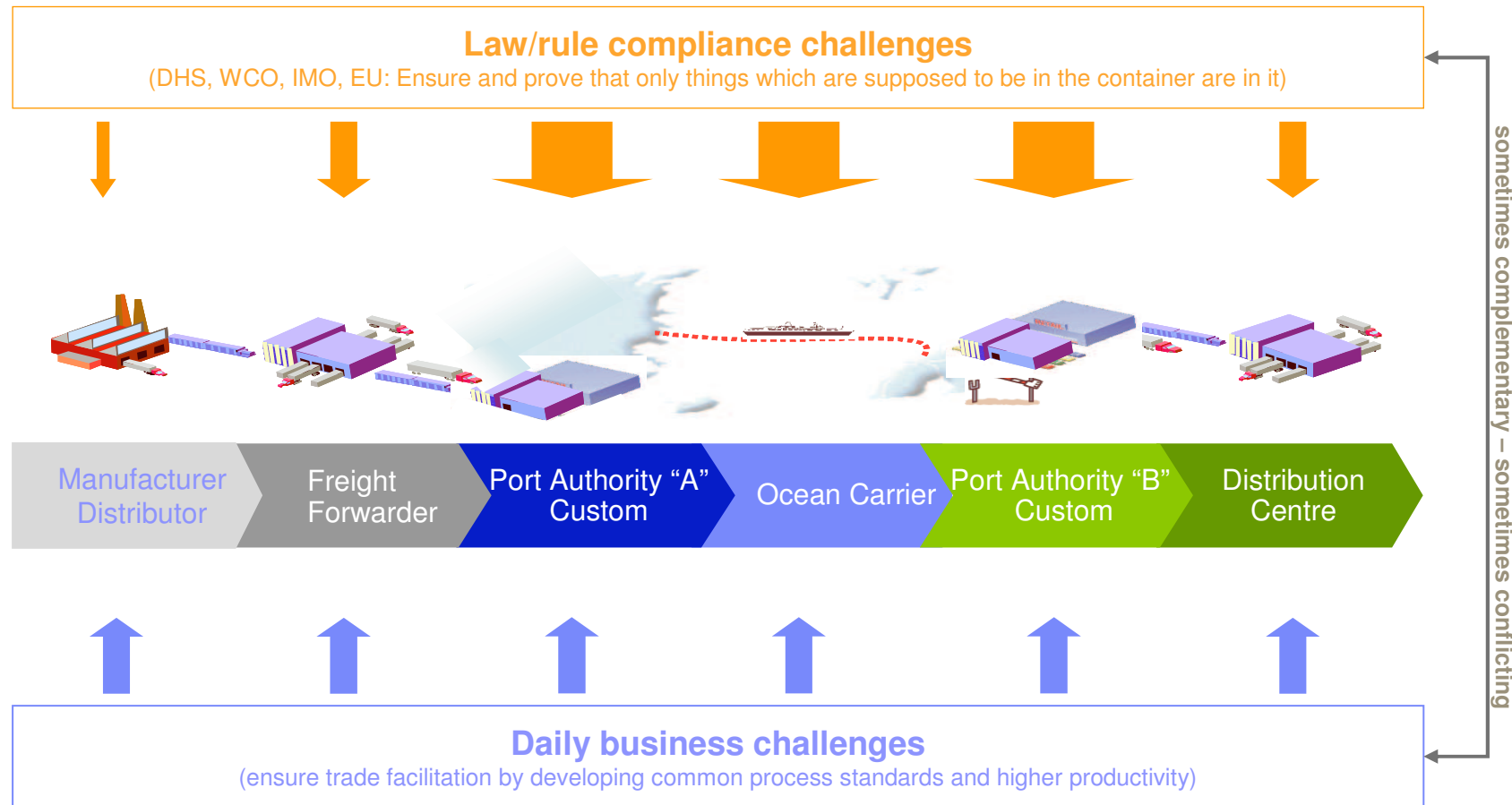
Secure Trade Lane

Supply Chain Security

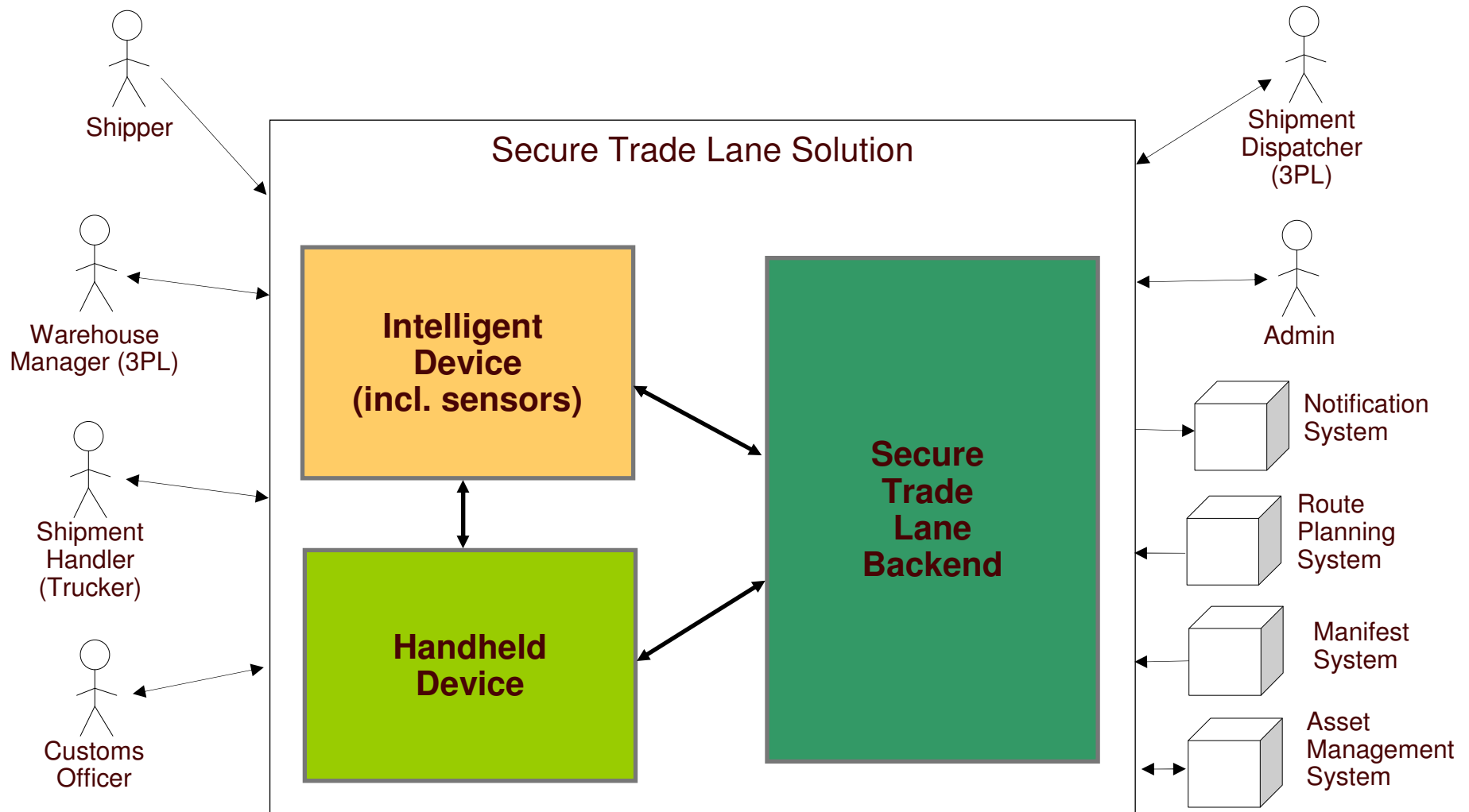
*Steffen Schaefer, IBM
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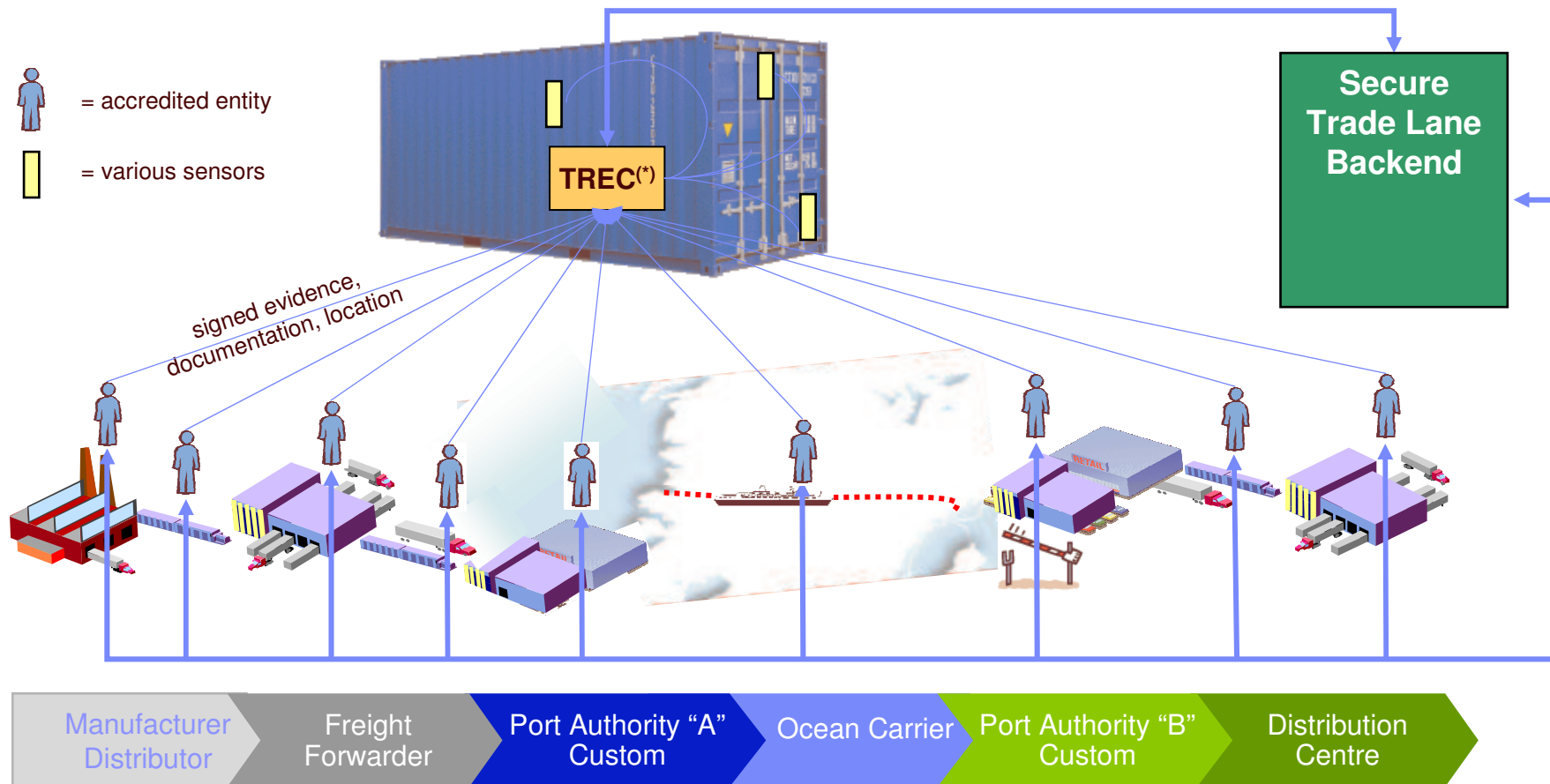
Upcoming security rules as well optimization of daily operations force shippers, buyers, freight forwarders, carriers, port operators, and customs to undertake aligned actions.



To improve on supply chain security, an innovative and open solution will emerge, providing support to all relevant all stakeholders..



IBM is currently developing such a solution, including a tamper resistant intelligent device, and a secure (but open!) backend.



(*) TREC= Tamper-Resistant Embedded Controller

The Secure Trade Lane Backend provides a set of business services crucial for improving supply chain security and visibility.

Primary business services:

- **Container Information Services:** Secure means for exchanging container-related data between trading parties.
- information on container content and manifest, location history, door openings, as well as environmental data on shipment conditions.
- **Container Tracking Services:** Near-time and retrospective tracking of container location and environmental conditions.
- Incl. configuration of parameters that need to be gathered, as well as definition of business rules at which notification must be sent out.
- **Supply Chain Process Services:** Business Process Integration based on a Service Oriented Architecture. Document exchange between trading partners based on open standards (e.g. WCO Framework, XML and EDI standards,...)

Secondary business services:

- **Container Loading Services:** Handheld and RFID-based support to determine container content.
- **Custody Management Services:** Keeps track of organizations and individuals in custody of the container.

Thank you

steffen.schaefer@de.ibm.com