



**THEME [GC.SST.2011.7.11]
E-freight solutions and supply chain management**



Collaborative Information Services for Container Management

DHL Ocean Secure

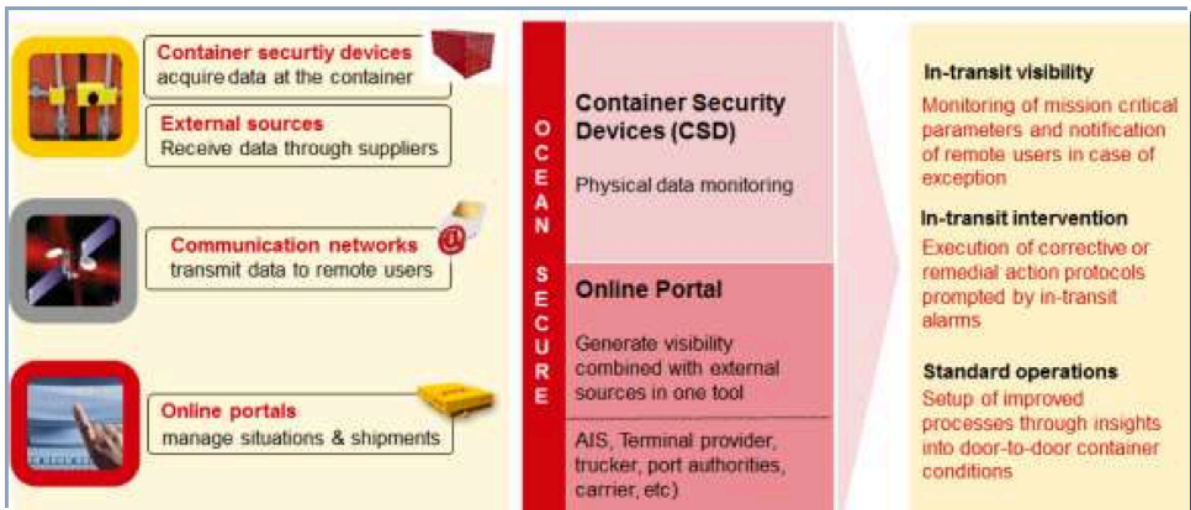
Authors: Sebastian Seidel, Yvonne Mueller (DHL Global Forwarding)

Date: 1st January 2014

1 What is Ocean Secure?

Ocean Freight shipments which are normally for a long period of time in transit and are not under direct supervision are facing difficulties to secure the soundness of cargo at arrival of destination. Since quality requirements are increasing, customers demand more end-to-end visibility to be protected against critical parameters. Especially for sensitive loads such as high value cargo, temperature controlled products and time critical shipments a new solution is needed.

Therefore the mission of DHL OCEAN SECURE is to provide solutions for remote monitoring of such critical aspects and for maintaining situational awareness about ocean freight shipments along the way. DHL OCEAN SECURE enables enhanced ocean freight services to create more transparency from door-to-door and increase customer satisfaction. With the aid of electronic devices all relevant container information (e.g. temperature, humidity and position) are recorded and transmitted via communication networks (cellphone towers or satellite) to remote users. On online portals all data (e.g. graphs, GPS position, and arrival time) can be reviewed close to real time. In case of exceptions and irregularities alarm notifications are sent and an intervention team takes corrective or remedial action if required.



Based on these key elements - container security devices, communication networks and online portals- OCEAN SECURE provides in-transit visibility, in-transit intervention and standardized operations to ensure reliable and transparent ocean freight shipments.

With DHL OCEAN SECURE customers can choose between four service levels which meet best their requirements. The first service level, CLASSIC TRACK, provides end-to-end monitoring of shipments including whereabouts of the container during the trip. Furthermore the service CLASSIC PROTECT provides information about the container integrity and acquires data about the door status (closed/open). In addition to those services, PREMIUM ECONONMY offers the monitoring of the container condition and records data as temperature and humidity in the container. On top of the PREMIUM ECONOMY service, PREMIUM SATELLITE provides in-transit information also from remote areas and at sea.

Since the product launch approximately four years ago, DHL OCEAN SECURE records an increasing interest especially from Life Science and Healthcare, Technology and Government & Defense customers who ship temperature sensitive and high value cargo. Since then the product has further developed and provides standardized operations with a pool of tested devices. The result will be brought actively to the market. Therewith an enhanced ocean freight service is provided including increased visibility across trade lanes and a reliable 24/7 monitoring.

About COMCIS

COMCIS was a two-year project to explore the possibilities and commercial viability of employing situational awareness tools to solve problems of data fragmentation, delay and inconsistency throughout the global supply chain. The project used the Common Framework supporting interoperability between ICT systems in logistics and deployed a three-layer architecture based on:

- 1) Aggregating data from multiple sources without requiring changes to the underlying IT systems;
- 2) Standardising data so that it could be processed by value-added services, independent of its original source and format;
- 3) Consolidating data to create on time, qualified and derived information that could support operational decisions by delivering the right information to the right person, at the right time, in a user-friendly way.

The COMCIS project ended in September 2013, but the ideas and technologies continue to be developed by the participants. COMCIS was co-funded by the European Commission.

For more information about COMCIS

Go to <http://www.comcis.eu> or contact:

Frank Knoors
Managing Director at Logit One NV (f.knoors@logit-one.com)

For more information about DHL Ocean Secure

Contact:

Sebastian Seidel
Head of Ocean Secure - Global Ocean Freight at DHL Global Forwarding (sebastian.seidel@dhl.com)