SkyRadar

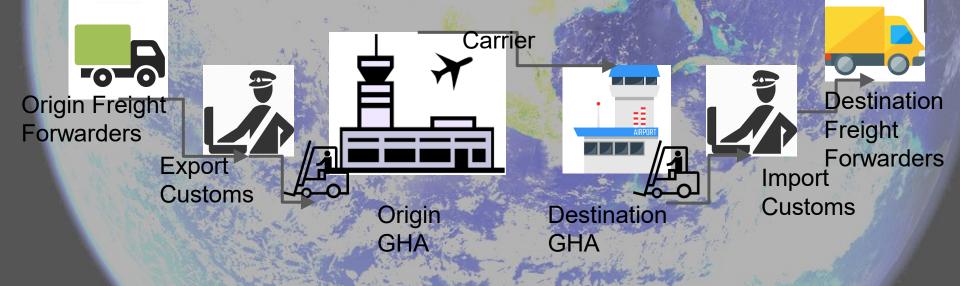
Laboratory of Aviation Security

IATA eCARGO, ACC3, IATA Dangerous Goods Shippers

Consignees

The SkyRadar System teaches Air Cargo Security for Ground handling in the context of the whole supply chain







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The training laboratory allows for training and education in compliance to the IATA safety regulations

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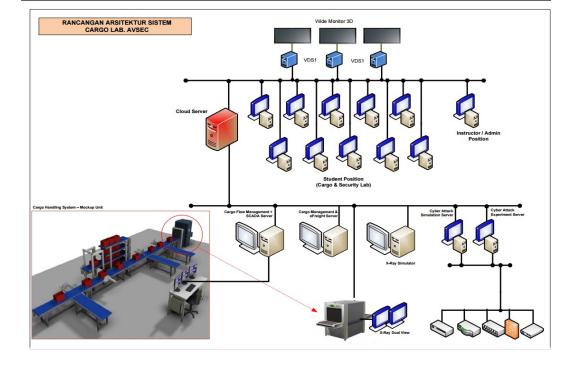
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SYSTEM DELIVERABLES



The training laboratory consists of the following main subsystems:

- Cargo Flow Management and SCADA System
- Hardware and Software procedures following EU's ACC3 Condition of a secure supply chain for the designation a Carrier
- eFreight system compliant to IATA CARGO XML
- Hacker attack prevention through Cyber Attack Simulation
- Cargo Scanner with Simulants of Hazardous Materials
- Cargo Scan Simulator
- Supportive systems
- Small Flight Data Processing System
- ULD configurator
- Cloud-Server giving access to manyConcurrent users





The training laboratory is interconnected, Using state-of-the art network and Cloud technology With highest resistance against attacks

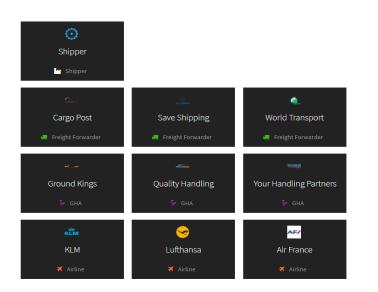


Cargo Flow Management and SCADA System:

- Modern modular design (incl. Drives, Control & Communication) Siemens SCADA and PLC control as used in real CARGO
- Handling systems
- Interconnected to the eFreight System

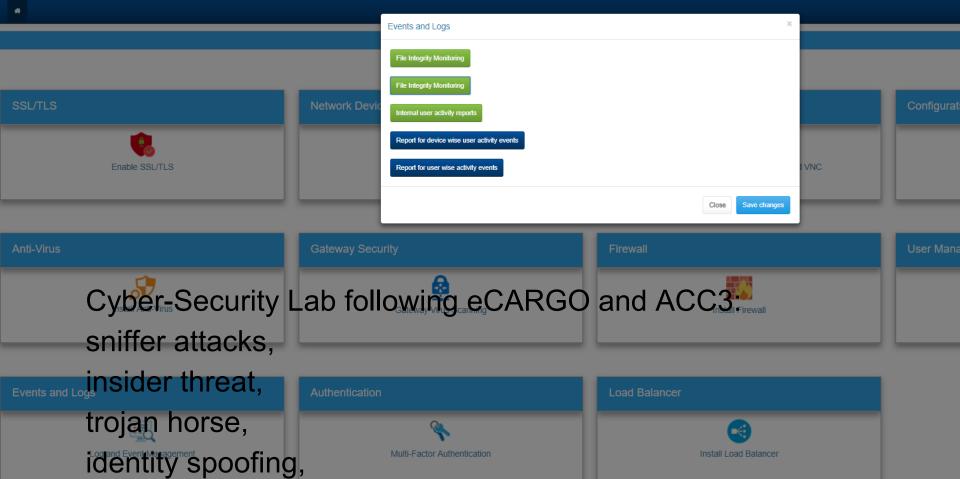






eFreight Training System compliant to IATA CARGO XML: Including eAWB (Air Way Bill), eCSD (Consignment Security Declaration, eACI (Advanced Cargo Information) and eDGD (Dangerous Goods Declaration) The supply chain is exemplarily implemented from Shipper to Airline allowing for role plays









Baggage scanner, simulants and walkthrough scanner:

- High Penetration Scanner
- Explosives and Narcotics detection
- Safe for users
- Industry-typical processes

Cargo Scan Simulator:

The SkyRadar simulator represents a typical graphical user interface of an x-ray scanner with typical functions and keys.

Cargo Screening Systems, e.g. zoom function, black & white as well as enhanced color view.

to serve as a training environment for IATA and EC 185/2010 based security training

	Destination for scree							· De els
Departures Arrival	Flight information System						SKL	Rada
Flight Data	14/04/2017	15:36						
Flight No	Aircraft Origin	Gate						
Scheduled	Expected GND Speed		De	partur	es		12:50	April 14
Long, Lat	Alt Route DIRECT		20	partar				
			Flight	Airline	Destination	Gate	Expected	Remarks
Status			SQ 945		Dubai			Cancelled
Flight Active	Modified on 14/04/2017 at 15:35							Open
Modify	14/04/2017	15:36						Closed
Change Departure (if landed)	Change Speed Change Landing (if active) Change Landing Time window (if active)							Delayed
	Cancel Flight Change Gate							

Supportive Systems:

- Small Flight Data Processing System
- ULD configurator
- Cloud-Server giving access to many
- Concurrent users

¥	ŀ	Arrival	S			12:50	April 14
	Flight	Airline		Origin	Gate	Expected	Remarks
<u>10:13</u>	SQ 945			Dubai — — — —	 		Open Closed Delayed

Expandable:

- Pulse-mode and FMCW radars can be connected
- 3D Tower Simulators, Approach and en-route simulators

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- Extension of cargo handling and eFreight
- ADS-B radars, SAR, simulators and many more ...