

Breakthrough to Excellence



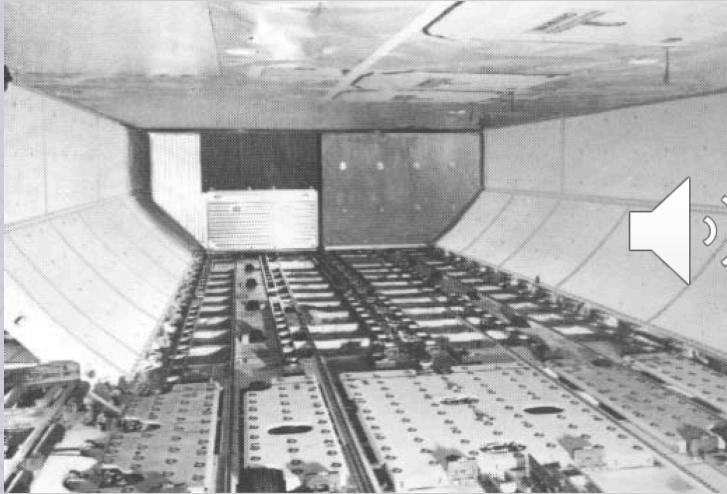
Bob Rogers

VP and Treasurer ULD CARE

ULD and Excellence???



Where have we been?



Where are we now?



What's changed for the worse?

- Many many more ULD
- Much larger aircraft holds
- More airport congestion 
- Increasing demands for Regulatory compliance
- Extreme staff turnover in handling company's

What's stayed as it was ?

- Misunderstanding of the flight safety function of ULD
- ULD considered as Material Handling Equipment
- ULD well down the "food chain"



What's getting better?

- Industry “aids”
 - IATA ULD Regulations
 - ULD CARE’s ULD Explained
 - 60Second ULD
 - ULD Code of Conduct



...AND TECHNOLOGY

Breakthrough to Excellence

- The ULD CARE strategy:
 - Communicating
 - Solving
 - Innovating



Communicating

The problem: Being heard above the day to day noise:

- Efforts so far
 - Website and newsletter
 - Social Media
 - SOS-ULD
 - ULD Explained
 - Press content



ULD Explained

- Soft launch in 2016.
- Full scale from 2017.

What more can we do?



- Promotional activities
- Different language versions



Solutions

- The problem: Plenty of industry standards but limited advise on how to implement.
- Outputs so far
 - ULD60Seconds
 - Strap Angle App
 - Wind speed calculator
 - Code of Conduct



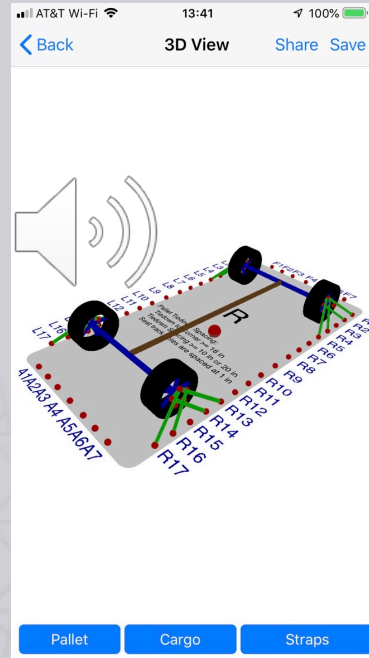
60 Second ULD

- Collaboration- leveraging ULD CARE's extensive subject matter knowledge
- Low cost (free!) industry support material
- Informing for excellence



Strap Angle App.

- Old problem- new solution
- Taking advantage of new consumer technology to inform and educate on the job staff
- Supporting excellence



Code of Conduct

- Provides a basic platform for ULD operations by any parties.
- Encouraging excellence



GIVEN THAT IT IS ESSENTIAL FOR SAFE AND EFFICIENT AIRLINE & AIR CARGO OPERATIONS, ALL ULD HANDLING AND OPERATIONS MUST BE PERFORMED TO AN ACCEPTABLE STANDARD:

THE SUPPLY FUNCTION OF ULD:

airlines, other ULD owners, vendors, service providers and manufacturers of ULD:



Provide the industry with ULD fit for purpose, and to provide clear instruction and guidance as to their safe and efficient operation.

THE USER AND HANDLER FUNCTION OF ULD:

ground handlers, cargo terminals, freight forwarders, transport companies, and any other party whose business activity has any engagement with ULD:



1
Handle and operate ULD in a responsible manner



2
Only perform those tasks for which they are currently qualified



3
Respect that ULD are aircraft equipment providing flight safety cargo restraint in flight



4
Store ULD in a damage free manner and appropriate environment



5
Move and transport ULD using damage free methods



6
Only use ULD that have been serviceability checked before use



7
Build stable loads observing all aircraft and ULD limitations



8
Report transfers and stacks of ULD consistent with the policies of the owner airline



9
Treat ULD accessories with proper care and attention



10
Study DEM instructions and/or follow specialist training course before working with these types of cargo

Innovation

- Big Buzzword these days.
- What can we look for in innovation and ULD?
 - Basic Function? NO
 - Tare weight? Yes
 - Repairability? Limited
 - Traceability? Yes
 - Management? Yes



Traceability- why only now?


- RFID a flop...for many reasons
 - Cost
 - Technology
 - Infrastructure

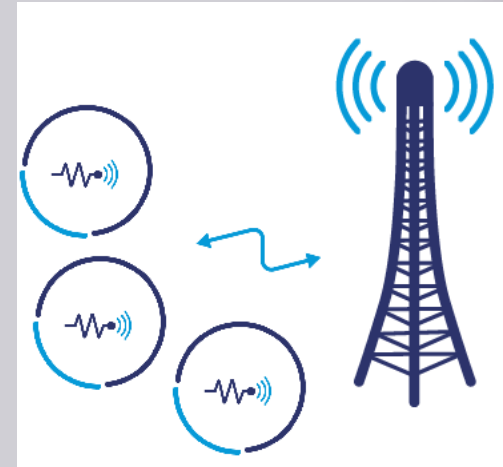


Why now?

- BLE, LPWAN and more?

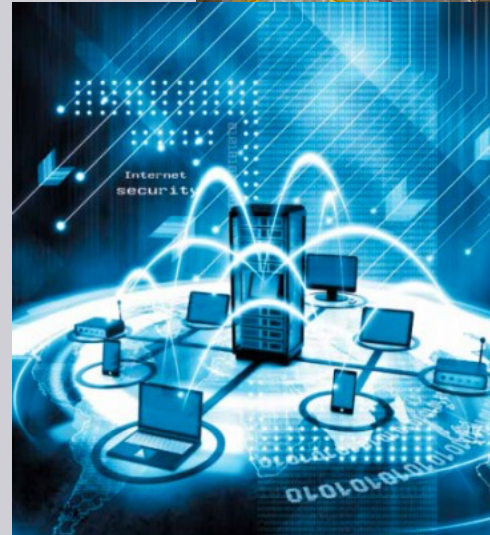


- Convergence various factors
 - Data transmission costs
 - Application of consumer electronics
 - Industry enthusiasm for “ SMART ULD”



Digitalisation of everything !!!

- Digitalisation and ULD?
 - Hurdles..
 - Regulated operating environment
 - Cost
 - Energy source
 - Global operating environment

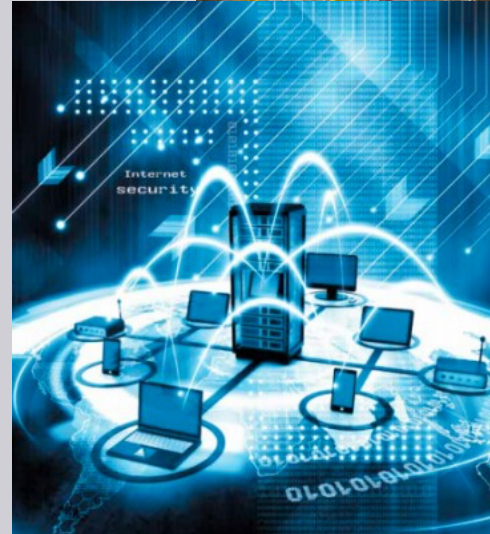


Digitalisation of everything !!!

- Digitalisation and ULD?

- Benefits

- Reliable real time information
 - Discipline
 - Accountability








SMART ULD

- ULD as a proxy for cargo
- If you can know the whereabouts of the ULD, you can know the whereabouts of its contents.



SMART or just a little less dumb?

	Does not require human intervention	Requires human intervention
ULD Location		
ULD Serviceability		
Associated nets and straps		
Build up quality		
Final inspection		

Excellence by ULD CARE

- What can ULD CARE do?
 1. It is the ULD CARE mission to deliver:
 - Elimination of waste and efficiency improvement in ULD operations
 - Management of Risk in ULD operations
 - Utilization and adaptation of new technologies in ULD operations
 - Global standardization of ULD regulatory and operational practices
 2. ULD CARE's IULDUG system

IULDUG System

- Close to 50 years service to the industry
- The original (and still in service) ULD transfer of custody system
- Over 50 members
- Industry neutral/ not for profit



Excellence through IULDUG?

End to end Cargo
tracking Systems

IULDUG

Airline
Systems

Situation #1

- Whose ULD is carrying whose cargo?

Example: A pallet from airline A is transferred to Airline B as a courtesy move. Now it is carrying Airline B's cargo.



Question: How can a “Smart ULD” tracking system know that airline A's ULD is carrying Airline B's cargo?

Answer: The IULDUG system knows.



Situation #2

- Does a transferred pallet have a net/straps

Example: A pallet is being transferred from Party A to Party B. Question: Does it have a net?

Answer: With the automated use of the UCR the IULDUG system knows.



Situation # 3

- Is a transferred ULD serviceable:

A ULD is being transferred from party A to party B. Question: How to record the observed damage?

Answer: With the automated use of the UCR the IULDUG system knows.



Situation # 4

- Is a transferred ULD correctly built up:

A built up ULD is being transferred between party A and party B. Is the load in good condition?

Answer: With the automated use of the UCR the IULDUG system knows.



ULD CARE-Breaking through to Excellence!!!

- The Challenges:
 - ULD remains far down the food chain
 - Airport infrastructure remains sub optimal
 - High staff turnover across the whole industry



ULD CARE-Breaking through to Excellence!!!

- The Opportunities
 - ULD CARE has a robust administration and financial position
 - ULD CARE solutions stream is responding to industry issues
 - ULD CARE brand is well recognised
 - &
 - **Technology is finally working for us.**





Thank You