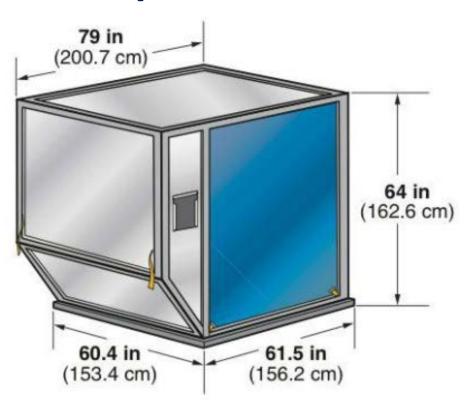
# JOSEPH P JENSEN

Bluetooth Low Energy from the Airline's point of view- a case study in how to solve ULD challenges



## **AGENDA**

- ✓ Behind the Curtain- Delta ULD Control
- ✓ Promo Video
- ✓ The ULD Agency Dilemma
- ✓ How do we permanently solve our issues?
- ✓ Bluetooth Low Energy as an Operator
- ✓ Closing/Questions





# PROMO VIDEO

Delta Technology Video



## BEHIND THE CURTAIN- DELTA ULD CONTROL

#### \*Team Responsibilities

- ULD Serviceability
- DCOM Chapter 40
- SPPM 67
- Station Allocations
- Luggage Logistics
- BLE Program
- Demurrage
- Pharma Tracking
- FAA Compliance
- Purchase Plans
- Imbalances & Modeling
- Restraint Devices
- SAE 2A / IATA ULD-B
- JV ULD
- CCC
- Leasing



JFK Repair

College



#### **International Repair Vendors**

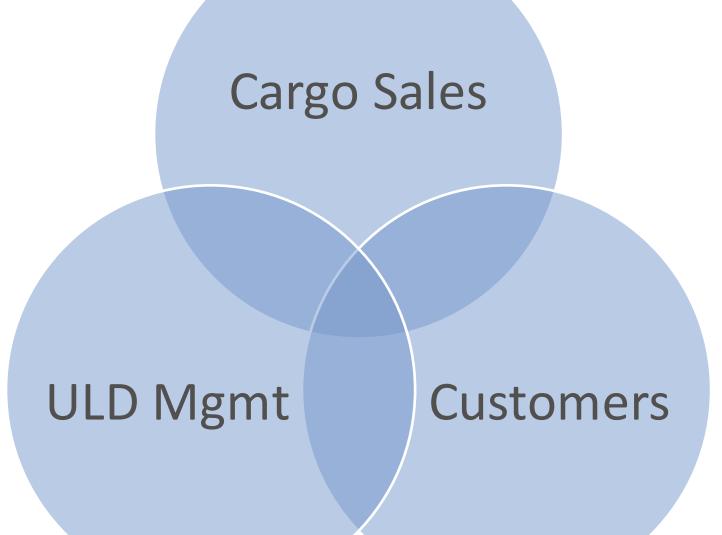
- NRT- ACL Airshop
- HKG- GSEL
- AMS- ACL Airshop
- LHR- Modulus
- ICN- Proposed 2019
- PVG/PEK- Proposed 2019
- TLV- Under Review





#### THE ULD AGENCY DILEMMA

The **agency** problem is a conflict of interest inherent in any relationship where one party is expected to act in another's best interests



#### **ULD Examples**

- ✓ Demurrage vs Customers
- ✓ Overbooking vs Supply
- ✓ Revenue vs Cost
- ✓ Alliances vs Fleet
- ✓ ULD Mgmt vs Ops
- ✓ New ULDs vs Finance



## HOW DO WE SOLVE FOR THESE ISSUES?

- ✓ Align goals amongst all 3 circles
- ✓ Universal acceptance of the virtuous circle
  - Support your foundational processes (ULD)
  - Decrease operational failures
  - Trust in your people
  - Increase customer satisfaction
  - Customers drive more business
  - Revenues increase
  - Reinvest in the foundational processes
- ✓ Technology alone will not solve your challengesonly great leadership and employees can





#### BLE AS THE AIRLINE OPERATOR

Bluetooth low energy tracking supports the virtuous circle and solves the agency dilemma

BLE benefits all 3 groups- (a few examples)

Cargo Sales	Customers	ULD Management
Tracking as a cargo service offering	Comfort & Piece of mind	Find lost & missing ULDs
Better ULD inventory availability	Eliminates manual processes	More efficient inventory
Pre-alert customers of delayed shipments	Transparent data & push notifications	Big Data / Reduce cost



# WHERE ARE WE TODAY?

85 cargo warehouses & 8,000 + units tagged





# **CONCLUSIONS & QUESTIONS**



