ISTANBUL **2024**
CONFERENCE

THE FUTURE
IS NOW

TIME TO ACT

SUSTAINABILITY
EFFICIENCY
DIGITALISATION

ULDigital
ULDCARE

OCTOBER 29th – 31st, 2024
RENAISSANCE POLAT ISTANBUL HOTEL

ISTANBUL **2024**
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DIGITALISATION

12 month review

Looking back to 2023

Opening Remarks

- Digital
  - Introduction of the E-UCR app and back office platform
- Sustainability
  - Launch of the ULD Sustainability label project
- Training
  - Launch of the ULD Challenge
- Safety
  - Updates on fire containment

Welcome !!!

- Conference metrics
  - Participants
    - New airlines

- Conference Format
  - Increased integration with wider community
    - 2022- Participation in " ACH Innovation showcase" and " Sustainability panel"
    - 2023- Innovation showcase and Digital panel
    - 2024- Innovation showcase, opening and closing panels and a 1 hour ULD CARE slot.

2024 Program

Day 1

- Morning
  - Exclusive ULD CARE
- Afternoon
  - Integrated with ACH
- 16.30 onwards E-UCR demo

- Day 3 Integrated with ACHL

Day 2

- Morning
  - Exclusive ULD CARE
  - Integrated with ACH
- Afternoon
  - Exclusive ULD CARE

ULDigital

- Live demo 1630-1830 Day 1

- Darrin and Owen available at any time to do "one to one" walk system walk through

Past 12 months

Glass Half Full

- Developed and launched the e-UCR system
- Sustainable task force made excellent progress on sustainability label
- 2 more ULD 60 Seconds videos
- Gained 2 new non airline members- Menzies, Radiance
- ? Participants at this years conference
- Increased collaboration with management companies
- Positive response to system development levy
- Further integration with ACHL

Glass half empty
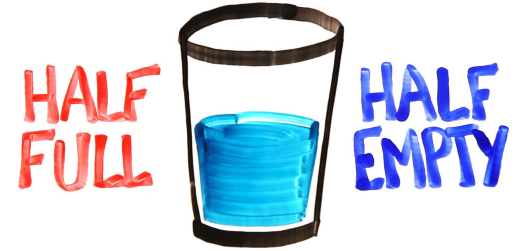
- Industry spend aversion
- Loss of a couple of members
- ULD CARE financial reserves running low
- Limited response to system development levy
- Limited human resources

Is it time for ULD CARE to repurpose itself?

- Upside
  - Almost 15 years of advocacy and solutions
  - Promoted the voice of ULD
  - Continued to maintain the IULDUG
  - Run the annual conferences

- Downside
  - Slow but irreversible decline of in-airline ULD management
  - Ever tighter financial constraints

A road long travelled...
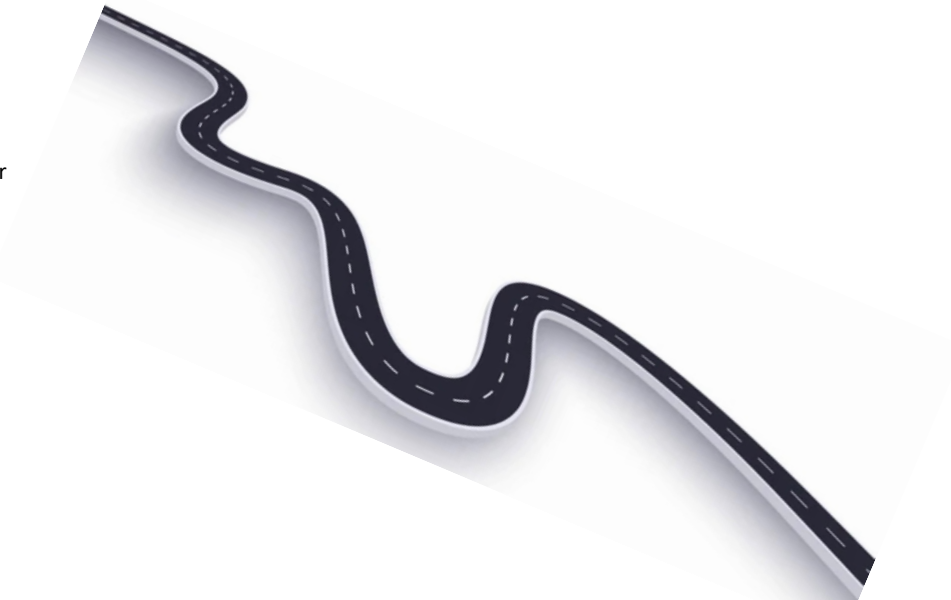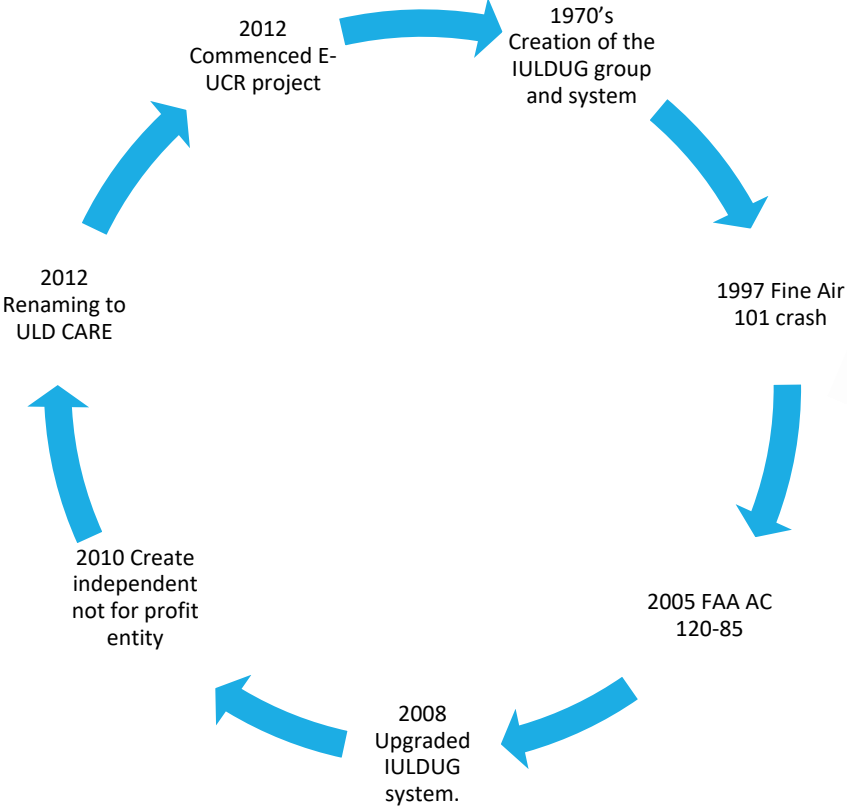
2012 Commenced E-UCR project

1970's Creation of the IULDUG group and system

1997 Fine Air 101 crash

2005 FAA AC 120-85

2008 Upgraded IULDUG system.

2010 Create independent not for profit entity

2012 Renaming to ULD CARE

ULD CARE's key initiatives

- Technology
  - Digital
  - Tagging
  - Design
- Sustainability
- Training
- Safety

Digital & the role of the e-UCR system

Support increased accountability and responsibility for ULD across the entire air cargo eco-system

Organisation		ULDs		Fire Covers		Nets		Straps		Fittings		Doors	
ABC123		24 / 9 🔍		-62 / 51		-178 / 0		-333 / 0		-310 / 0		0 / 0	

ULD	UCR	Direction	Fire Covers	Nets	Straps	Fittings	Door	Total Days	Status
AKE 99999 DS	888-00000080	OUTBOUND	0	0	0	0	0	32	OPEN
PGA 88888 ZC	888-00000082	OUTBOUND	0	0	0	0	0	22	OPEN
AKE 88888 ZC	888-00000066	OUTBOUND	0	0	0	0	0	21	OPEN
AKE 22222 DS	888-00000079	OUTBOUND	0	0	0	0	0	18	OPEN
AKE 33333 DS	888-00000079	OUTBOUND	0	0	0	0	0	18	OPEN
PMC 70315 DS	888-00000077	OUTBOUND	0	0	0	0	0	16	OPEN
PMC 70366 DS	888-00000077	OUTBOUND	0	0	0	0	0	16	OPEN
PMC 12345 ZC	888-00000068	OUTBOUND	0	0	0	0	0	15	OPEN
AKN 88888 DS	888-00000081	OUTBOUND	0	0	0	0	0	12	OPEN
PAG 99999 ZC	888-00000081	OUTBOUND	0	0	0	0	0	12	OPEN
PRA 44444 DS	888-00000086	OUTBOUND	0	1	6	0	0	11	OPEN
PRA 98765 DS	888-00000084	OUTBOUND	0	1	10	0	0	10	OPEN
PMC 54321 DS	888-00000083	OUTBOUND	0	1	3	0	0	7	OPEN
PMC 76543 DS	888-00000092	OUTBOUND	0	1	5	0	0	2	OPEN
AKE 98765 DS	888-00000092	OUTBOUND	0	0	0	0	0	2	OPEN
PMC 98765 DS	888-00000092	OUTBOUND	0	1	4	0	0	1	OPEN

| FF1 | | 2 / 0 🔍 | | 0 / 0 | | 2 / 0 | | 4 / 0 | | 8 / 0 | | 0 / 0 | |

ULD	UCR	Direction	Fire Covers	Nets	Straps	Fittings	Door	Total Days	Status
PMC 99999 AA	888-00000067	OUTBOUND	0	0	0	0	0	21	OPEN
PMC 20059 ZC	888-00000085	OUTBOUND	0	2	4	8	0	7	OPEN

We've arrived

E-UCR-overview

- Completed phase 3 development
- Fully legacy IULDUG functions
- Basic off airport functions
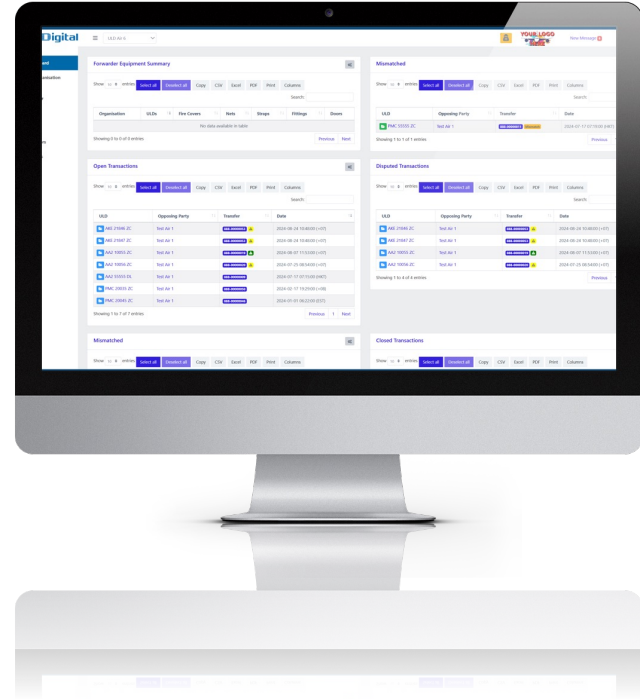
Forwarder activities

Forwarder Equipment Summary

Show [10 ⇕] entries

Search: [   ]

Organisation ⇕	ULDs ⇕	Fire Covers ⇕	Nets ⇕	Straps ⇕	Fittings ⇕	Doors ⇕
ABC123 ⧉	15 / 0 🔍	-62 / 0	-185 / 0	-373 / 0	-310 / 0	0 / 0
FF1 ⧉	1 / 0 🔍	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0

Showing 1 to 2 of 2 entries

Previous   **1**   Next

| | ABC123 | | | | | | 0 |

UCR number	ULD	Transferring Party	Receiving Party	Transfer Date	Return Date	Outstanding Day	Total Day
888-00000030	PMC34160DS	Test Air 1	ABC123	2024-08-14 13:16:16 (HKT)		47	52
888-00000030	PMC60241DS	Test Air 1	ABC123	2024-08-14 13:16:16 (HKT)		47	52
888-00000030	PMC70315DS	Test Air 1	ABC123	2024-08-14 13:16:16 (HKT)		47	52
888-00000030	PMC13710DS	Test Air 1	ABC123	2024-08-14 13:16:16 (HKT)		47	52
888-00000030	PMC70366DS	Test Air 1	ABC123	2024-08-14 13:16:16 (HKT)		47	52
888-00000030	PMC70080DS	Test Air 1	ABC123	2024-08-14 13:16:16 (HKT)		47	52
888-00000030	PMC70362DS	Test Air 1	ABC123	2024-08-14 13:16:16 (HKT)		47	52
888-00000030	PMC13749DS	Test Air 1	ABC123	2024-08-14 13:16:16 (HKT)		47	52
888-00000030	PMC22841DS	Test Air 1	ABC123	2024-08-14 13:16:16 (HKT)		47	52
888-00000030	PMC20039ZC	Test Air 1	ABC123	2024-08-14 13:16:16 (HKT)		47	52
888-00000037	PMC20036ZC	Test Air 1	ABC123	2024-08-01 01:35:00 (EDT)		60	65

UCR Number	ULD Number	Transferring party	Receiving party	Transfer Date	Return Date	Outstanding Days	Total Days
888-00000030	PMC34160DS	Test Air 1	ABC123	2024-08-14 13:16:16(HKT)		47	52
888-00000030	PMC60241DS	Test Air 1	ABC123	2024-08-14 13:16:16(HKT)		47	52
888-00000030	PMC70315DS	Test Air 1	ABC123	2024-08-14 13:16:16(HKT)		47	52
888-00000030	PMC13710DS	Test Air 1	ABC123	2024-08-14 13:16:16(HKT)		47	52
888-00000030	PMC70366DS	Test Air 1	ABC123	2024-08-14 13:16:16(HKT)		47	52
888-00000030	PMC70080DS	Test Air 1	ABC123	2024-08-14 13:16:16(HKT)		47	52
888-00000030	PMC70362DS	Test Air 1	ABC123	2024-08-14 13:16:16(HKT)		47	52
888-00000030	PMC13749DS	Test Air 1	ABC123	2024-08-14 13:16:16(HKT)		47	52
888-00000030	PMC22841DS	Test Air 1	ABC123	2024-08-14 13:16:16(HKT)		47	52
888-00000030	PMC20039ZC	Test Air 1	ABC123	2024-08-14 13:16:16(HKT)		47	52
888-00000037	PMC20036ZC	Test Air 1	ABC123	2024-08-01 01:35:00(EDT)		60	65

| UCR number	ULD	Transferring Party	Receiving Party	Transfer Date	Return Date	Outstanding Day	Total Day
888-00000030	PMC34160DS	Test Air 1	ABC123	**2024-08-14** 13:16:16 (HKT)		47	52
888-00000030	PMC60241DS	Test Air 1	ABC123	**2024-08-14** 13:16:16 (HKT)		47	52
888-00000030	PMC70315DS	Test Air 1	ABC123	**2024-08-14** 13:16:16 (HKT)		47	52
888-00000030	PMC13710DS	Test Air 1	ABC123	**2024-08-14** 13:16:16 (HKT)		47	52
888-00000030	PMC70366DS	Test Air 1	ABC123	**2024-08-14** 13:16:16 (HKT)		47	52
888-00000030	PMC70080DS	Test Air 1	ABC123	**2024-08-14** 13:16:16 (HKT)		47	52
888-00000030	PMC70362DS	Test Air 1	ABC123	**2024-08-14** 13:16:16 (HKT)		47	52
888-00000030	PMC13749DS	Test Air 1	ABC123	**2024-08-14** 13:16:16 (HKT)		47	52
888-00000030	PMC22841DS	Test Air 1	ABC123	**2024-08-14** 13:16:16 (HKT)		47	52
888-00000030	PMC20039ZC	Test Air 1	ABC123	**2024-08-14** 13:16:16 (HKT)		47	52
888-00000037	PMC20036ZC	Test Air 1	ABC123	**2024-08-01** 01:35:00 (EDT)		60	65

Digitalising the UCR

- 5 decades old legacy process
  - Inefficient
  - Labour intensive
  - Error Prone
  - Not real time

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TIME TO ACT

The future is NOW !

- Do we really want to stay stuck in legacy systems?
  - Paper and pencil
  - Keyboard entries
  - EDI LUC messages
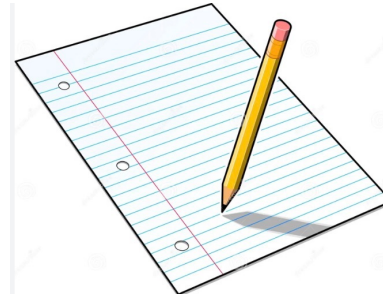
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PMC56730R7/24SEP24/0427/YYDSVTOR/AC/YYZ/000-624090809/YYZ/SER
PMC19069R9/24SEP24/0427/YYDSVTOR/AC/YYZ/000-624090809/YYZ/SER
PMC13599R9/24SEP24/0427/YYDSVTOR/AC/YYZ/000-624090809/YYZ/SER
PLA51345R7/23SEP24/0107/YYDSVTOR/AC/YYZ/000-523090509/YYZ/SER
PMC03286R7/23SEP24/0107/YYDSVTOR/AC/YYZ/000-523090509/YYZ/SER
PMC03941R7/23SEP24/0107/YYDSVTOR/AC/YYZ/000-523090509/YYZ/SER

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SUSTAINABILITY EFFICIENCY DIGITALISATION

TIME TO ACT

Dashboard

My Organisation
Test Air 1

+ Create Transfer

⇄ Transfer

✉ Messages 78

📦 ULD

👤 Users

✦ Members

📄 Reports

Forwarder Equipment Summary

Show 10 entries   Search:

Organisation	ULDs	Fire Covers	Nets	Straps	Fittings	Doors
ABC123 ⧉	24 / 9 🔍	-62 / 51	-178 / 0	-333 / 0	-310 / 0	0 / 0
FF1 ⧉	2 / 0 🔍	0 / 0	2 / 0	4 / 0	8 / 0	0 / 0

Showing 1 to 2 of 2 entries   Previous **1** Next

Disputed Transactions

Show 10 entries   Search:

ULD	Opposing Party	Transfer	Date
📋 PMC 44444 DS	Test Air 2	888-00000092 ⬆	2024-10-17 20:24:00 (+07)
📋 PMC 20048 ZC	ULD Air 6	888-00000000 ⬆	2024-09-10 12:57:00 (+07)
📋 AKE 21846 ZC	ULD Air 6	888-00000053 ⬆	2024-08-24 10:48:00 (+07)
📋 AKE 21847 ZC	ULD Air 6	888-00000053 ⬆	2024-08-24 10:48:00 (+07)
📋 PMC 34160 DS	ABC123	888-00000030 ⬆	2024-08-14 13:16:16 (HKT)
📋 PMC 60241 DS	ABC123	888-00000030 ⬆	2024-08-14 13:16:16 (HKT)
📋 PMC 70315 DS	ABC123	888-00000030 ⬆	2024-08-14 13:16:16 (HKT)
📋 PMC 13710 DS	ABC123	888-00000030 ⬆	2024-08-14 13:16:16 (HKT)
📋 PMC 70366 DS	ABC123	888-00000030 ⬆	2024-08-14 13:16:16 (HKT)
📋 PMC 70080 DS	ABC123	888-00000030 ⬆	2024-08-14 13:16:16 (HKT)

Showing 1 to 10 of 25 entries   Previous **1** 2 3 4 Next

Forwarder Equipment Summary

Show 10 entries   Search:

Organisation	ULDs	Fire Covers	Nets	Straps	Fittings	Doors
ABC123 ⧉	24 / 9 🔍	-62 / 51	-178 / 0	-333 / 0	-310 / 0	0 / 0
FF1 ⧉	2 / 0 🔍	0 / 0	2 / 0	4 / 0	8 / 0	0 / 0

Showing 1 to 2 of 2 entries   Previous **1** Next

Forwarder Equipment Summary

Show 10 entries   Search:

Organisation	ULDs	Fire Covers	Nets	Straps	Fittings	Doors
ABC123 ⧉	24 / 9 🔍	-62 / 51	-178 / 0	-333 / 0	-310 / 0	0 / 0
FF1 ⧉	2 / 0 🔍	0 / 0	2 / 0	4 / 0	8 / 0	0 / 0

Showing 1 to 2 of 2 entries   Previous **1** Next

Mismatched

Show 10 entries   Search:

ULD	Opposing Party	Transfer	Date
📋 PHB 10838 SS	Test Air 2	888-00000091 Mismatch	2024-10-22 18:37:00 (+08)
📋 PHB 10838 SS	Test Air 2	888-00000092 Mismatch	2024-10-22 18:37:00 (+08)
📋 PHB 10838 SS	Test Air 2	888-00000092 Mismatch	2024-10-22 18:37:00 (+08)
📋 PHB 10543 SS	Test Air 2	888-00000092 Mismatch	2024-10-22 18:37:00 (+08)
📋 PHB 10543 SS	Test Air 2	888-00000092 Mismatch	2024-10-22 18:37:00 (+08)
📋 PHB 10543 SS	Test Air 2	888-00000092 Mismatch	2024-10-22 18:37:00 (+08)
📋 PMC 98765 DS		888-00000093 Mismatch	2024-10-22 02:22:00 (BST)
📋 PMC 76543 DS			2024-10-21 02:26:00 (BST)
📋 PMC 20021 ZC	Test Air 2	888-00000092 Mismatch	2024-10-20 16:44:00 (CEST)
📋 PMC 20057 ZI	Test Air 2	935-00000060 Mismatch	2024-10-19 19:00:00 (+07)

Showing 1 to 10 of 29 entries   Previous **1** 2 3 Next

Closed Transactions

Show 10 entries   Search:

ULD	Opposing Party	Transfer	Date
📋 PMC 220043 ZC	Test Air 2	935-00000040	2024-08-26 17:11:00 (NZST)
📋 AA2 10021 ZC	Test Air 2	935-00000040	2024-08-26 17:11:00 (NZST)
📋 AA2 10051 ZC	Test Air 2	935-00000040	2024-08-26 17:11:00 (NZST)
📋 AAY 0001 ZC	Test Air 2	935-00000040	2024-08-26 17:11:00 (NZST)
📋 AKE 0123 ZC	Test Air 2	935-00000040	2024-08-26 17:11:00 (NZST)
📋 AAY 0123 ZC	Test Air 2	935-00000040	2024-08-26 17:11:00 (NZST)
📋 PMC 20029 ZC	Test Air 2	935-00000040	2024-08-26 17:11:00 (NZST)
📋 PMC 20030 ZC	Test Air 2	935-00000040	2024-08-26 17:11:00 (NZST)
📋 PMC 20048 ZC	Test Air 2	935-00000040	2024-08-26 17:11:00 (NZST)
📋 PMC 20047 ZC	Test Air 2	935-00000040	2024-08-26 17:11:00 (NZST)

Showing 1 to 10 of 100 entries   Previous **1** 2 3 4 5 … 10 Next

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Key metrics

- Typical PMC makes an off airport trip every 2 months.
  - Annual off airports- 2.4 million
  - Daily off airports-6500

- Average turnaround 12-13 days
  - 7-8 days "overdue"
  - At any point in time around 8% - 30,000 -of global ULD fleet overdue for return
  - About 700 B747F ship sets.

WIIFM ?

- Airlines
  - Take back control of ULD assets
  - Control of accessories- nets, straps, covers etc
- Cargo terminals
  - Single tool to manage their off airport ULD control process
- Forwarders
  - On line visibility of ULD assets "on their tab"
  - Ability to contribute to efficiency and sustainability

Sustainability

- Control of ULD accessories.. Nets, straps, covers
- Increased utilization of ULD assets

Economics

- PMC
  - Daily PMC Ownership Cost: US$0.50
  - Annual loss of use of PMC: 48 days (6 times per year with 8 days overdue)
 - Annual out of pocket cost of loss of use: 48 * US$0.50 = US$24.00
- Container
  - Daily Container Ownership Cost: US$1.20
  - Annual loss of use of container: 8 days (1 times per year with 8 days overdue)
  - Annual out of pocket cost of loss of use: 8* US$1.20 = US$10.00

IULDUG Value Proposition

- Annual Average ULD system per unit charge : US$0.50

- Annual daily of ownership of a PMC US$0.50

- A return improvement of 1 day PER YEAR covers the cost of ULDigital e-UCR for 1 year !

Related tech.

- Agnostic data capture
  - App with OCR
 - App with BLE
  - App with RFID
  - IoS
  - API
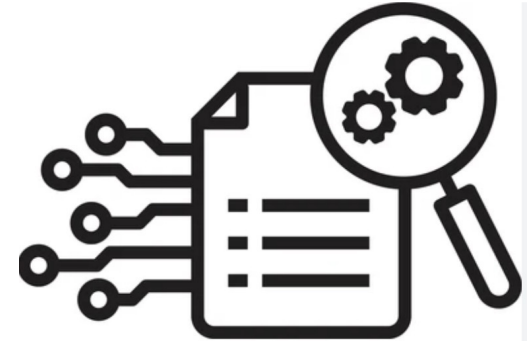
IULDUG system provides the industry wide, industry neutral, community financed, platform for visibility and accountability of intermodal ULD assets.

RFID

- Decades old conversation with little progress
- ULD location or ULD identification?
- RFID on metal
  - Challenges
  - Solutions
- ULD CARE 2 mm thick RFID tag
  - Read a single pallet at 1 m
  - Read multiple stacked pallets at 0.5 m
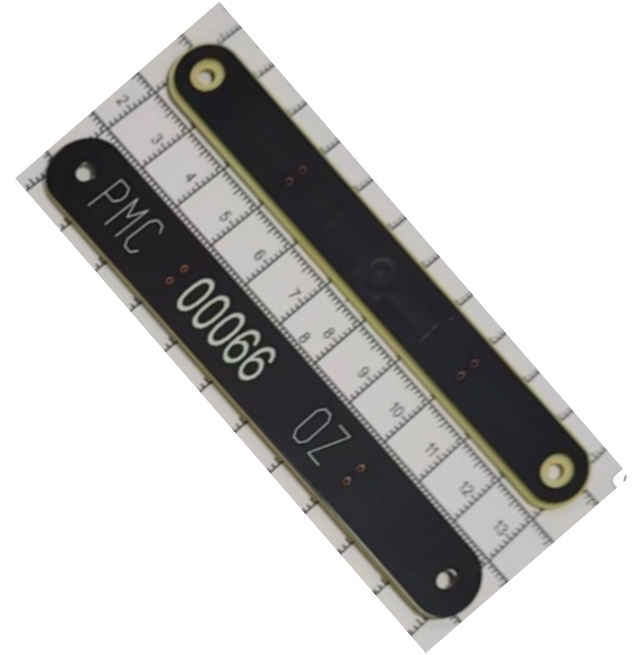
ULDigital Value Proposition
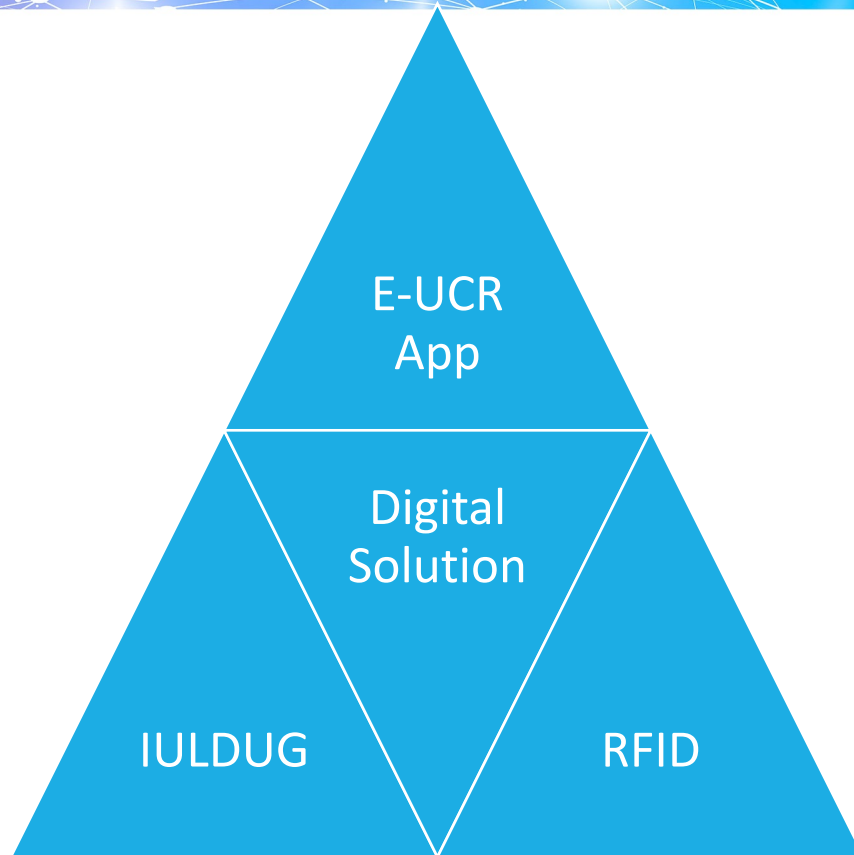
E-UCR App

Digital Solution

IULDUG

RFID

Summary

- We've come a long way since our origins
- We have reinvented the IULDUG system- our DNA
- We offer a compelling value proposition