e-Cargo Solutions for Airfreight

CAREC Aviation Workshop

07 Apr 2017

Problems in Air Cargo Industry

Average air shipment generates more than 30 documents, handled by various stakeholders in the supply chain.

- Inefficient use of time to re-enter data during information transfer
- Errors during data translation from one document to another
- Lack of ability to track and trace data flow in real-time
- Lack of ability to trace data source for verification
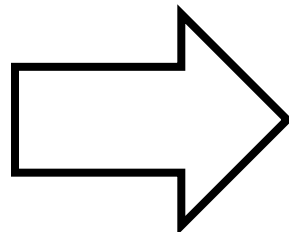
IATA e-freight

e-freight aims to take the paper out of air cargo and to replace it with the exchange of electronic data and messages.

IATA e-freight

e-freight aims to take the paper out of air cargo and to replace it with the exchange of electronic data and messages.

Launched in
2006

→

AUG
2016

Penetration rate of 40.5% globally for e-AWB

e-feight@Singapore

initiative from

CAAS
Civil Aviation Authority of Singapore
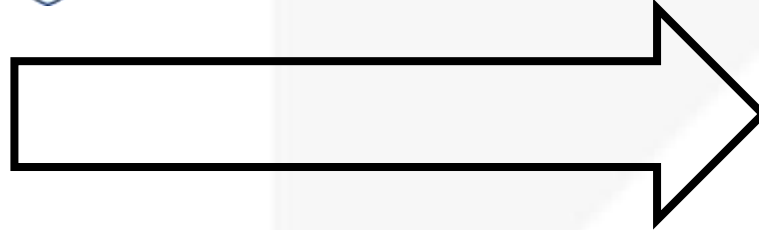
MOU signed
2010

supported by
Infocomm Development Authority of Singapore (iDA)
International Air Transport Association (IATA)
Singapore Aircargo Agents Association (SAAA)
Singapore Logistics Association (SLA)
Singapore National Shipper's Council (SNSC)

e-feight@Singapore

The Logistics Institute Asia Pacific

National University of Singapore

JUL
2010

Air Freight Process Productivity Study (AFPPS) to examine the potential costs and benefits gained from adopting e-freight.

JUL
2011

e-feight@Singapore

The Logistics Institute Asia Pacific

JUL
2010

Air Freight Process Productivity Study (AFPPS) to examine the potential costs and benefits gained from adopting e-freight.

JUL
2011

ANNUAL SAVINGS BY FREIGHT FORWARDERS AND SHIPPERS

S$18.4 million

1.7 million man-hours

e-freight@Singapore

CAAS and IDA issued a Call-for-Collaboration to invite companies to develop solutions to integrate key ICT systems, business processes and data for e-freight@Singapore.

Awarded to 3 service providers

- vCargo Cloud
- Innosys
- Kewill

Subsequently a fourth provider, CCN

e-freight@Singapore Technical Committee

chair

e-freight@Singapore Technical Committee was established to develop a common set of data standards over a few months

secretariat

committee members

e-freight@Singapore Technical Committee

Commercial Invoice

Packing List

Shipping Instruction

Certificate of Origin

Master Waybill

House Waybill

House Manifest

Customs Declarations

Customs Release

Dangerous Goods Declaration

10 documents defined by committee

Standards developed by the Committee leveraged IATA's Cargo-XML standards

shippers

consignees

✓ Invoice
✓ Packing List

✓ Invoice
✓ Packing List

✓ Invoice
✓ Packing List
✓ Air Waybill
✓ House Manifest
✓ House Waybill

origin freight forwarders

✓ House Manifest
✓ Air Waybill

carriers

destination freight forwarders

✓ Customs Release

export customs

✓ Customs Release

✓ Export Goods Declaration

✓ Customs Release

✓ Export Cargo Declaration

✓ House Manifest
✓ Air Waybill
✓ Flight Manifest

✓ Import Goods Declaration

✓ Customs Release

✓ Import Cargo Declaration

import customs

physical cargo flow

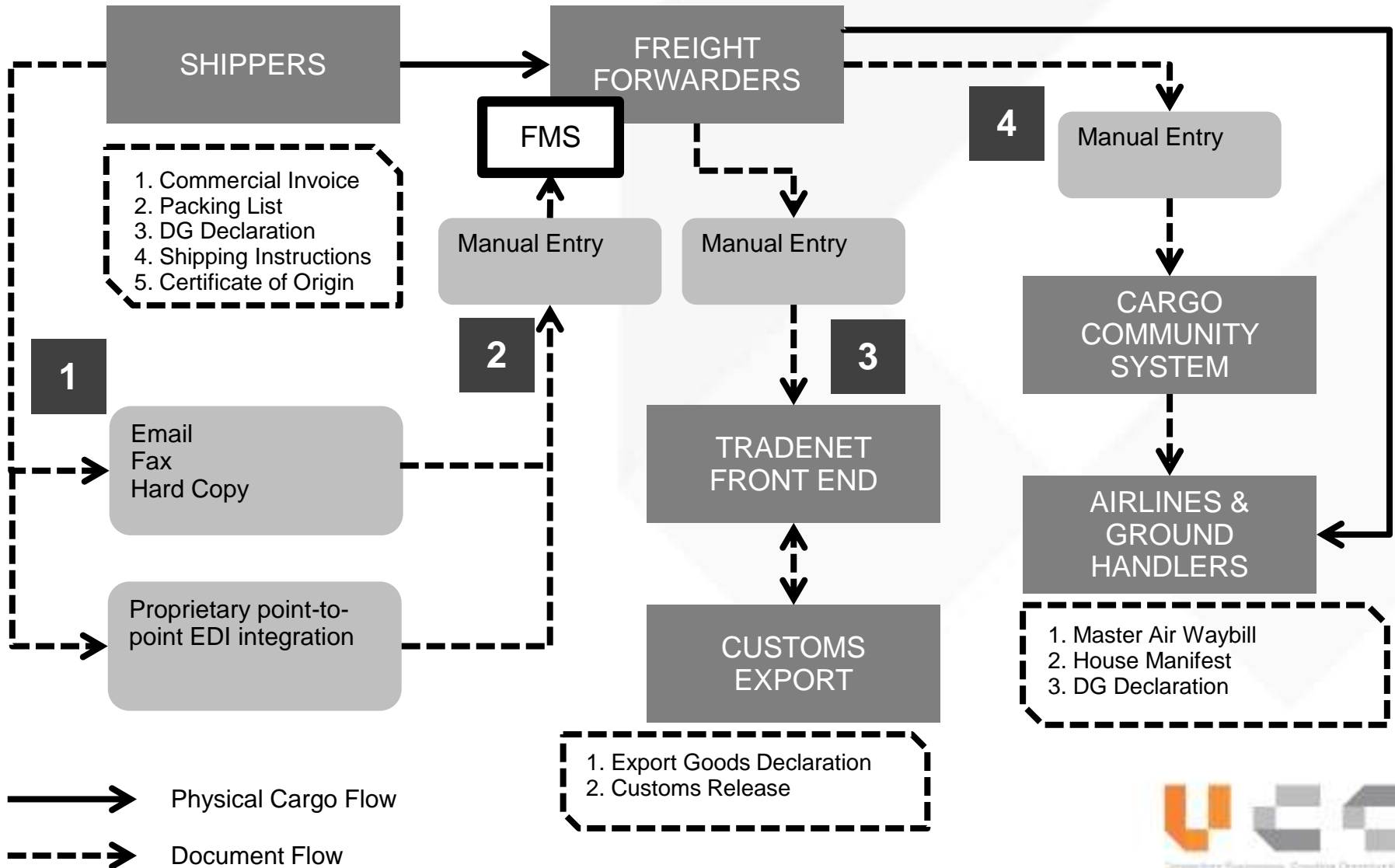document / data flow

e-feight@Singapore Launch

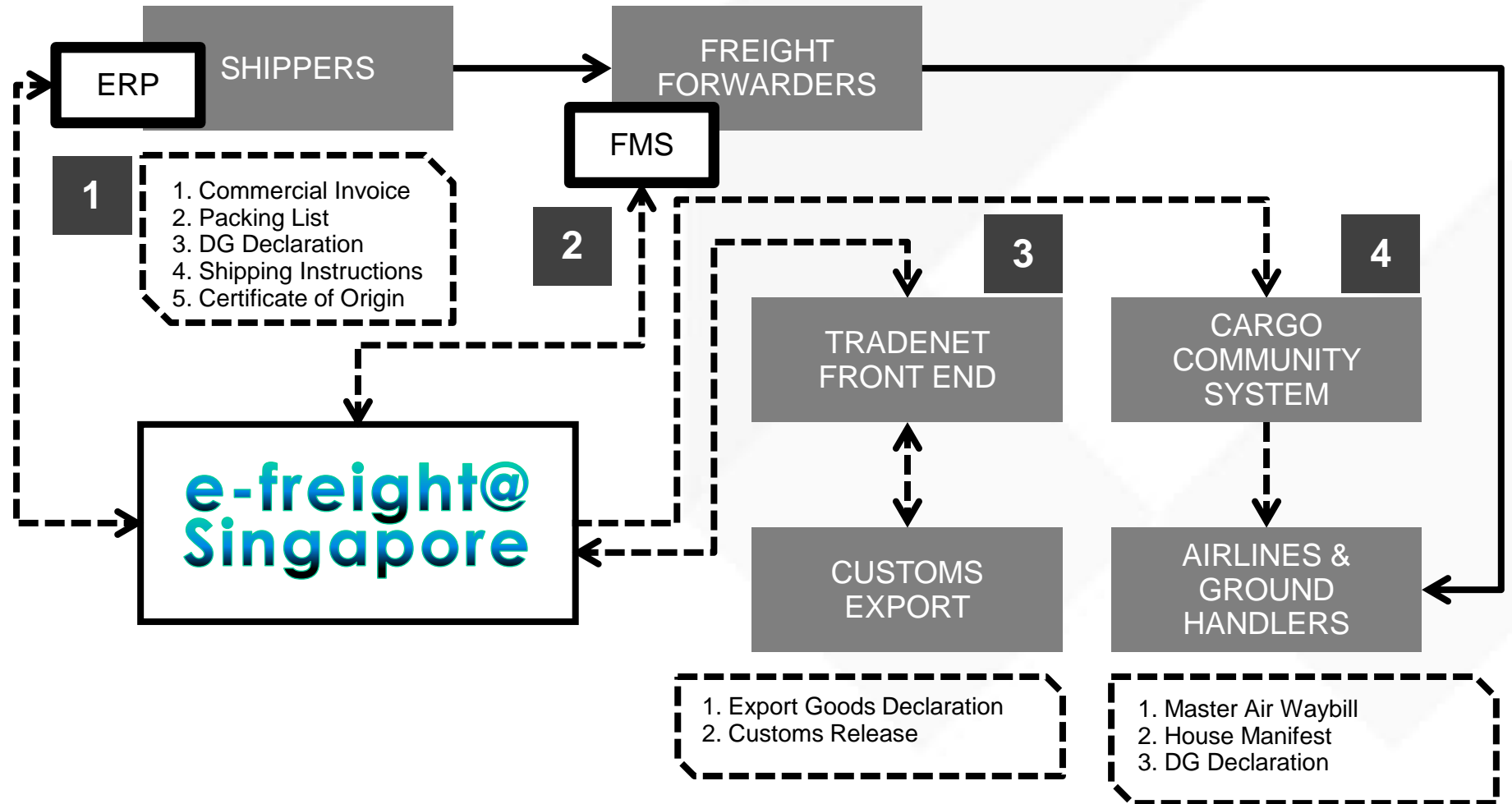e-freight@Singapore launch by Minister of State for Ministry of Transport and Ministry of Finance

JUN
2013

14 early adopters at the point of launch with a total of **37** companies signed up

Air Cargo Export Process Before e-freight@Singapore

SHIPPERS

1. Commercial Invoice
2. Packing List
3. DG Declaration
4. Shipping Instructions
5. Certificate of Origin

1

Email
Fax
Hard Copy

Proprietary point-to-point EDI integration

FMS

2

Manual Entry

FREIGHT FORWARDERS

Manual Entry

3

TRADENET FRONT END

CUSTOMS EXPORT

1. Export Goods Declaration
2. Customs Release

4

Manual Entry

CARGO COMMUNITY SYSTEM

AIRLINES & GROUND HANDLERS

1. Master Air Waybill
2. House Manifest
3. DG Declaration

———▶ Physical Cargo Flow

- - -▶ Document Flow

Air Cargo Export Process With e-freight@Singapore

SHIPPERS → **FREIGHT FORWARDERS**

ERP

FMS

1
1. Commercial Invoice
2. Packing List
3. DG Declaration
4. Shipping Instructions
5. Certificate of Origin

2

3 **TRADENET FRONT END**

4 **CARGO COMMUNITY SYSTEM**

e-freight@ Singapore

CUSTOMS EXPORT

AIRLINES & GROUND HANDLERS

1. Export Goods Declaration
2. Customs Release

1. Master Air Waybill
2. House Manifest
3. DG Declaration

→ Physical Cargo Flow

⇢ Electronic Document Flow

Success Story: DGF-Avago Integration

Published in the

e-freight@Singapore
Case Study Report by CAAS

Success Story: DGF-Avago Integration

Avago
Technologies Ltd
(Shipper)

DHL Global Forwarding
(Singapore) Pte Ltd
(Freight forwarder)

Success Story: DGF-Avago Integration

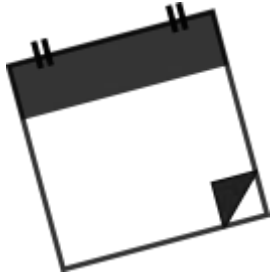"…**used to require 1 hour** to complete a declaration for Avago."

"…now takes just **a few minutes** as **95%** of the data is already populated when received."

"As a result, shipments are processed faster and **compliance with regulatory is more assured**."

About vCargo Cloud Pte Ltd

Established in 2003

Headquartered in Singapore with operations in Africa and China

A member of declout group that has 30+ other related businesses and 600+ employee globally

specializes in developing
Integrated Trade & Logistics solutions

declout is listed in SGX

THANK YOU

For more information, please contact:

Terence Tan
Chief Technology Officer

terence.tan@vcargocloud.com