Kale Logistics
Technology that Transforms

Use Case
Airport Cargo Community System –
Truck Slot Management

Demand for a Smart System to Overcome Truck Congestion at Airports

Major airports today face challenges in terms of truck congestion that results due to lack of visibility of expected cargo and vehicles to the handlers. On an average the truck wait times soar up to 4 hours a the terminal during peak times. Manual intervention and document processing further affects the efficiency and the time consumed in cargo handling. Data entry at various stages consumes around 22 hours per shipment. The absence of proactive information leads to inefficient personnel and asset planning at the gates, peaks and idle times and long waiting times for freight handlers or trucking companies.

Manual Processes Causing Unprecedented Delays

Stakeholder	Challenge
Freight Forwarder	• Manual extraction of Air Waybill details • No visibility of shipment status

Current Process

- Capture AWB details manually
- Create manual Bill of Lading//Delivery Order document
- Assign shipments to truckers manually

Stakeholder	Challenge
Cargo Ground Handler	• No pre-alert for drop off or pick up of cargo to handler and therefore the handler was not able to plan the resources accurately. • For imports, forwarder used to send the manual copy of POD to be completed by Cargo Ground Handlers. • Truck congestion leading to inefficiency in resource and equipment planning

Current Process

- Verify the documents
- Specify cargo location
- Capture W/H Acceptance/Proof of delivery manually

Stakeholder	Challenge
Transporter	• Forwarder shares information through email at regular intervals and the shipments is assigned to trucker. • Forwarder creates manual Bill of Lading or Delivery Order and handovers physical copy to trucker for pick up. • Higher dwell time at the airports • Longer wait times at the terminals directly result in increase of costs. • Compliance to driver regulations

Current Process

- Receive shipments and Bill of Lading/Delivery Order from the forwarders manually.
- Go to the ground handlers directly to drop off/pick up cargo.
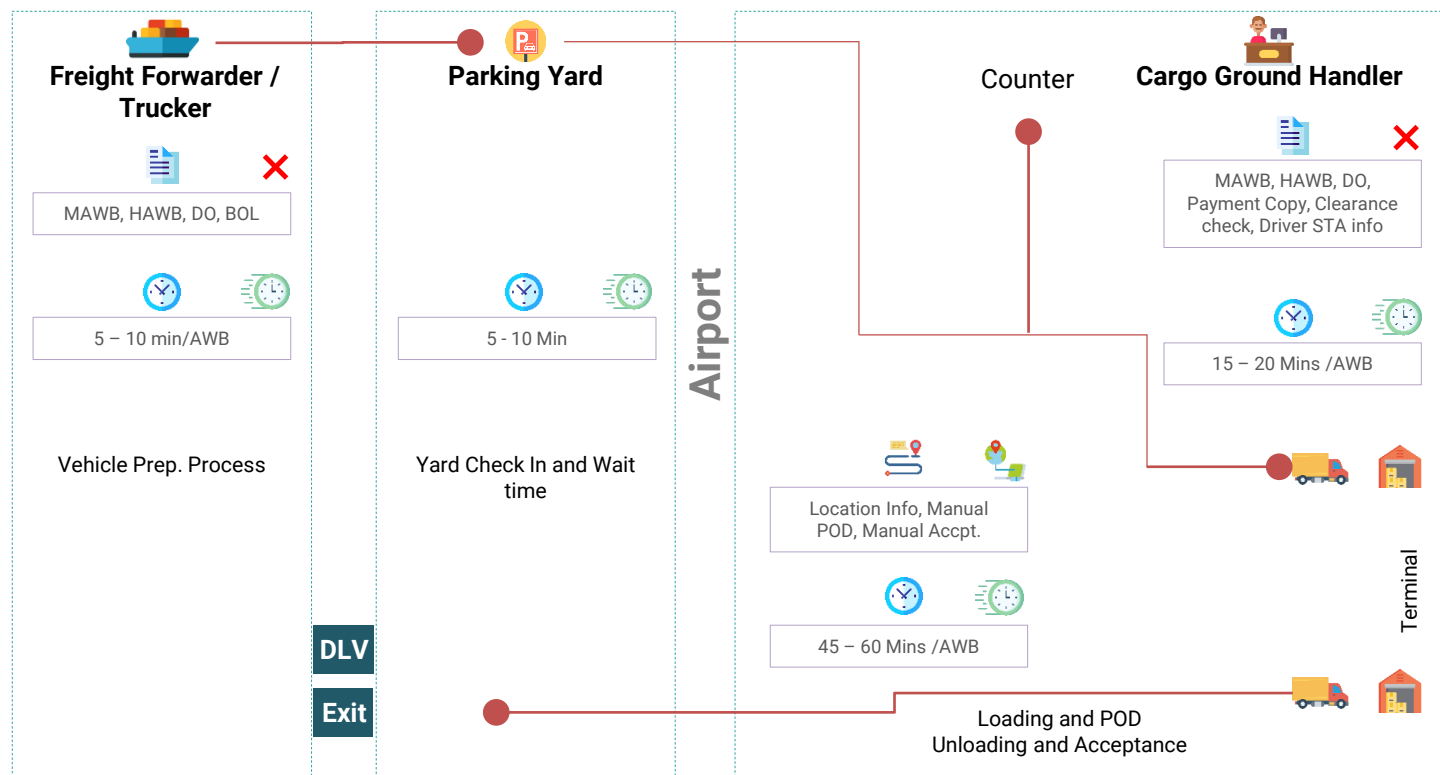- Manual document verification at the airports.

Truck Slot Management to eliminate wait times at the terminal

Kale Logistics Solutions Truck Slot Management for Air Cargo helps ground handlers, freight forwarders and trucking companies to better coordinate their landsite freight management so they can eliminate waiting times and smoothen peaks and idle times. These stakeholders coordinate freight handling processes through an online slot booking application that matches supply and demand. All slots and their statuses (available, reserved) are presented in an intuitive calendar with day, week and month views. The ground handlers can make slots available in line with their capacity. Handlers have a clear overview of and proactively receive information about all bookings, so they can organize personnel and assets at the gate accordingly.

Making Freight Handling Smooth and Efficient

Freight Forwarder / Trucker

MAWB, HAWB, DO, BOL

5 – 10 min/AWB

Vehicle Prep. Process

Parking Yard

5 - 10 Min

Yard Check In and Wait time

DLV

Exit

Airport

Counter

Location Info, Manual POD, Manual Accpt.

45 – 60 Mins /AWB

Loading and POD
Unloading and Acceptance

Cargo Ground Handler

MAWB, HAWB, DO, Payment Copy, Clearance check, Driver STA info

15 – 20 Mins /AWB

Terminal

Approximate 22% reduction in vehicle turnaround time with 8 physical document/shipment reduction

Making Airports Congestion Free

Stakeholder	Challenge
Freight Forwarder	• Manual extraction of Air Waybill details • No visibility of shipment status

Solutions

- EDI interfacing with Forwarder system to avoid manual intervention
- Machine Learning tool to convert PDF copies and auto-create Air Waybills on portal.
- Real-time Shipment status
- Reports and dashboards for informed decision making.

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Solutions

- EDI messages triggered to the handlers to send information about the AWB's.
- Shipments created by forwarders are now available to Cargo Ground Handler well in advance so that they can plan for resources and equipment efficiently.
- Cargo Ground Handler captures the Proof of Delivery on mobile app and the captured details can be viewed by forwarder in ACS.

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Solutions

- Forwarder creates an Air Waybill and assigns to truck company in an online environment.
- Trucker gets an e-dashboard where real-time assigned shipment are reflected.
- Forwarder can create Bill of Lading or Delivery Order from ACS and the same is reflected in the trucker login (can be printed)
- Truckers have fixed time slots booked with the handlers which ensures lower dwell time
- Streamlined processes ensure compliance to the driver regulations

Unique Functional Capabilities

Automatic processing of AWB pdf copies using optical character reading(OCR) tool.

Provision for the ground handlers to configure docks and slots that can be booked by the trucker's/freight forwarders using the Slot and Dock Management module

Real time updates of various milestones captured during end to end processing of shipments.

Provision for advanced slot booking giving the handlers better control for managing docks and slots.

Efficient dock management process with functionalities such as block dock and attribute setting.

Business Benefits

Comprehensive track and trace to get real time updates of the shipments.

Paperless transactions to eliminate possibility of error

Avoid truck congestion as GHA's have complete control over the slot and dock management and can ensure staggered arrival of trucks.
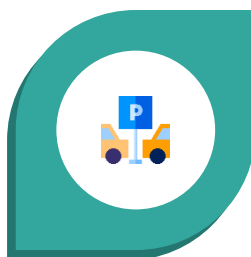
Reduced waiting time at the counters for document verification

Reduces dwell time of the truckers at the GHA terminals.

Success Stories

The Truck Slot Management module has been implemented across in leading airports in Asia Pacific and North American Regions.

For export processes, the dwell time of trucks has reduced by almost 25% whereas for imports the dwell time of trucks has reduced by almost 22%.

The streamlining of the process has also helped in reducing the waiting time of the trucks at the parking area has been reduced by almost 30%.

Reduction in manual document processing has resulted in eliminating 5 physical documents for export process and 8 physical documents for import process.

Pre-alerts to the GHA has enabled document processing time to get reduced from 15-20 mins/AWB to 5-10 mins/AWB.

About Airport Cargo Community System

ACS is an award winning innovative platform developed to not only bring together the stakeholders of the air cargo sector onto a single platform but also facilitate government-to-business, business-to-government and business-to-business transactions in a highly secured environment. Freight Forwarders, Cargo Ground Handlers, airlines, terminal operators, customs brokers – all of these, and more, need access to smart, real time information. The platform provides the business community with a streamlined process for submitting export and import information to customs and other government agencies.

Kale Logistics Solutions

A trusted global IT solutions partner for several Fortune 500 companies worldwide, offering a comprehensive suite of IT solutions for the Logistics Industry. With in-depth domain knowledge and technical expertise, Kale has created a suite of comprehensive IT enterprise and community systems for the Logistics industry for more than 10 years.