Information System for Freight Forwarding Administration

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Abstract – PT. X is one of the freight forwarding companies. In daily operational activities, the company needs an integrated information system that can give the information, get the information, and make the operational activities become easier. The information system includes Shipping for Instruction Shipping line, Bill of Lading for Shipper, Shipment Advice for Agent, Payment Request, Invoices, Marketing Commission, and Status Delivery. Result from this application shows the system that has been made consist of Marketing Commission Report, Shipping Instruction Report, Bill of Lading Report, Shipment Advice Report, Payment Request Report, Data Shipper Report, Profit and Loss Report.

Keywords: freight forwarding, information system, shipping

1 Introduction

PT. X is one of the freight forwarding companies, which is provide a forwarder dispatches shipments to arrange, prepare, and process the documentation for cargo movement. The shipment is dealing with import and export by ocean and air freight.

The operational process includes information relates with customer, cargo, and destination data. Therefore, the company needs system which can be used to improve services for customer as quality policy High Level of Service, Surely of Service, and Customer and Management Satisfaction. Freight forwarder must be flexible and able to provide a variety of services based on the customer’s demand [1].

2 Forwarding Company

Forwarding company facilitate cargo consolidation from company who want deliver to the customer aboard which helped by a third party shipping line. Forwarding is a service for transportation, freight shipping between shippers and shipping line. This forwarding provides comprehensive professional services. If the transportation services provide straight services to the shipper, the fee would be more expensive then used forwarding company. Usually the forwarding company has contract service with transportation services. Contract service is contract between forwarding company with transportation companies with a bundle amount of container, price, and limited time. If the forwarding company can not fulfill the contract, the company would get forfeit [2].

2.1 The particular

Some of particular who involve this forwarding service [3]:
- Shipper: customer who want to deliver goods.
- Consignee: the person to whom the shipment is to be delivered.
- Agent at the destination place: representative of company who received goods and handed to consignee.
- Third party (transportation services or shipping line/air line) who provide transport services.

2.2 The document

Document of the transaction delivery of the goods to the named consignee called bill of lading. There are two kinds bill of lading:
- Ocean/master Bill of Lading (O B/L)
Bill of lading issued by transportation provider because of the contract between forwarding company and transportation companies.

- House Bill of Lading (H/B/L)
  Bill of lading issued by transportation provider because of the contract between forwarding company and transportation companies.

3 Business Process

The operational of this company includes:

3.1 Received shipping instruction from shipper

Shipper who wants to deliver goods will receive blank shipping instruction form from marketing department. Form will be fulfilled by shipper and handed back to marketing. Marketing will tag rate and name of third party. Shipping instruction form will be handed to operational department. The business process can be seen in Figure 1.

3.2 Create proforma and shipping instruction to transportation service/shipping line

Before create shipping instruction to the transportation service/shipping line, operational department would ask shipper to give data of deliverable goods. If shipper had not provided complete data yet, operational department will make proforma shipping instruction first to reserve space to the transportation service. After shipper give completed data, operational department will create shipping instruction and handed to the transportation service. The business process of creating proforma can be seen in Figure 2, where as the business process of creating shipping instruction can be seen in Figure 3.

3.3 Create payment request

Operational department will receive invoice from transportation service by fax before the deliverable goods. Based on the invoice, operational staff will make payment request to accounting department. The business process of create payment request can be seen in Figure 4.
3.4 Receive ocean bill of lading from transportation service

After the company paid the invoice, the company will receive ocean bill of lading from the transportation service as a receipt of delivery goods.

3.5 Create invoice to shipper

After receive invoice from the transportation service, the company create invoice which is send to shipper. Invoice created before the transportation service handed the goods. The business process of create invoice can be seen in Figure 5.

3.6 Create house bill of lading

After the shipper paid the invoice, the shipper will receive house bill of lading. The business process of create invoice can be seen in Figure 6.

3.7 Send shipment document and advice to agent

The forwarding company also sends shipment advice which is notification note to agent who received the goods and other documents. The business process of create invoice can be seen in Figure 7.
5 Testing

Shipment order for sea freight export with data:
- Shipper: KREASITAMA RIMBA PERSADA
- Agent: TRANSWAYS EXPRESS PTY LTD - SYD
- Consignee: FURNITURE MAKERS
- Shipping Line: NYK
- Load Status: FCL
- Type of Service: FCL/FCL – CY/CY
- Rate: Rp. 9000,-
- Shipment Status: Freehand
- Marketing Code: Rini
- Port of Loading: TG Perak Surabaya Indonesia
- Place of Receipt: Surabaya Indonesia
- Port of Discharge: Melbourne
- Place of Delivery: Melbourne
- City: Singapore
- Feeder Vessel: KOTA BERANI
- Voy: BRN 296
- Mother Vessel: POSTDAM
- Voy: 13S
- Departure date: July 11, 2006
- Arrival date: August 07, 2006
- Freight O B/L: Collect
- Freight Collect At: Melbourne
- Freight H B/L: Collect
- Freight Collect At: Melbourne
- Payment for Ocean Freight: USD
- Vessel: KOTA BERANI V. BRN 296
- Description of Goods:

<table>
<thead>
<tr>
<th>1 x 20GP CONTAINER, SAID TO CONTAIN:</th>
</tr>
</thead>
<tbody>
<tr>
<td>89 PIECES OF FURNITURE</td>
</tr>
<tr>
<td>P.O. NO : 002/FM-KRP/PO/V/01</td>
</tr>
<tr>
<td>GW : 10,000.00 KGS</td>
</tr>
<tr>
<td>NW : 10,000.00 KGS</td>
</tr>
</tbody>
</table>

INTENDED CON. VSL: POSTDAM V.13S
- Gross said to be: 10,000.00 KGS
- 10,000.00 KGS NET.WT

![Figure 8. Shipment sea freight export form]
Figure 8 shows form entry for shipment sea freight export for feeder vessel Kota Berani and mother vessel postdam.

**Shipper**
KREASI TAMA RMDA PERSADA
JLN. NAYAKIN SUNGGONO NO. 202 SURABAYA INDONESIA

**Consignee**
FURNITURE MAKERS
2605 PRICES HWY. CLAYTON VICTORIA

**Notify Party**
FURNITURE MAKERS
2605 PRICES HWY. CLAYTON VICTORIA

Figure 9. Shipment instruction report

Figure 9 and Figure 10 show shipment instruction report for:
- **JOB**: FESBY-10-00007
- Attention: MS. NURUL
- Original B/L: 3 (three)
- Special Instruction: PLEASE FAX US D/O ASAP

Figure 10. Shipment instruction report (continue)

Figure 11. Bill of lading report

Figure 11 shows bill of lading report for:
- **JOB**: FESBY-10-00007
- Number of Bill of lading: 3 (three)
- Total Number of Container: ONE CONTAINER
- Cargo Insurance: Non Covered
- Freight Amount: As Agreed

Figure 12 shows shipment advice report for:
- **JOB**: FESBY-10-00007
- Remarks: PLEASE CONTACT CONSIGNEE IMMEDIATELY UPON ARRIVAL

Figure 12. Shipment advice report

Figure 13 shows payment request report for:
- Shipment order: FESBY-10-00007
- Amount IDR: Rp 100,000,-
- Amount USD: USD 100
Figure 13. Payment request report

Figure 13 shows payment request report for:
- Shipment order: FESBY-10-00007
- Amount USD invoice: USD 90
- Amount USD payment request: USD 100

Figure 14. Invoice report

Figure 14 shows invoice report for:
- Invoice number: INV-0006
- Due date: 20th June 2007
- Payment USD: 131
- Payment IDR: 120,000

6 Conclusions

This application supports operational administration of the forwarding company. Limitation of this information system is payment request cannot be integrated to price list of shipping line or air line because the numbers are fluctuated. Marketing commission based on target of the company, which is commission is not given if the marketing did not pass the target.

References