DWELL TIME FOR IMPORT TRANSIT CONTAINERS AT DAR ES SALAAM PORT: AN ANALYSIS OF THE ROLE OF FREE STORAGE TIME

IDRISA ALLI

A DISSERTATION SUBMITTED IN FULFILMENT OF THE REQUIREMENTS FOR THE DEGREE OF MASTER OF BUSINESS ADMINISTRATION OF THE OPEN UNIVERSITY OF TANZANIA

CERTIFICATION

The undersigned certifies that he has read and hereby recommends for acceptance by the Open University of Tanzania a Dissertation titled "Dwell Time for Import Transit Containers at Dar es Salaam Port: An Analysis of the Role of Free Storage time", in partial fulfilment of the requirements for the degree of Master of Business Administration (MBA) of the Open University of Tanzania.

Du Fuiel D Maggami DhD

Dr. Erick P. Massami, PhD

(Supervisor)

.....

Date

COPYRIGHT

No part of this dissertation may be transmitted or reproduced in any form and by any means, electronic or mechanical thereto, including photocopying, recording or storing it in any retrieval system and for any purpose without the express permission of the author or of the Open University of Tanzania in that behalf.

DECLARATION

I, Idrisa Alli, do hereby declare that this Dissertation is my own work and that it has not been submitted for any degree or examination in any other University and that all sources used or quoted have been indicated and acknowledged by the author in complete references.

Signature
Date

DEDICATION

This work is dedicated to all those who helped me carry out this research and to my son, Ihsan; may you grow up stronger, wiser and happier!

ACKNOWLEDGEMENT

Many thanks are due to Allah the Almighty, for His Compassion and endless Mercy.

I would also like to express my sincere gratitude to my supervisor, Dr. Erick P.

Massami, (PhD) for giving me guidance which helped me to complete this Dissertation.

Additionally, special thanks go to the management and staff of Tanzania Ports Authority (TPA) and Tanzania Revenue Authority (TRA), specifically one K. Kisesa for furnishing me with the data required for completion of this work.

I am also grateful to my colleagues at Tanzania Ports Authority for bearing with me when this work necessitated me to 'sneak' out of the office from time to time.

Lastly, to everyone who directly or indirectly contributed to this work; my lecturers and my fellow MBA students.

ABSTRACT

Dwell time is the principal indicator of the Port's efficiency. Dwell time can be broken into three components: operational dwell time, transactional dwell time and discretionary dwell time. All customs and terminal inefficiencies are absorbed in the first two components above. The aim of this study was to determine delivery patterns and find evidence of discretionary behaviours by the importers taking advantage of the long free storage time offered for transit containers. The study was conducted by extracting terminal handling data for import containers for the first quarter of 2014 from Tanzania Ports Authority (TPA) terminal and linking this data with clearance data from Tanzania Revenue Authority (TRA) for the same container records so as to study the trends. Pearson's Correlation Coefficient was used to determine the strength and direction of relationship between the two variables and was found to be equal to 0.725 which shows strong positive correlation. The findings from the analysis suggest that the actual time required to complete customs and terminal procedures is very minimal and that the majority of the deliveries tend to happen in the last days of the expiry of free storage. The general impression from study findings is that delivery of containers is dictated by free time given at the Dar es Salaam Port; subsequently influencing average dwell time of the containers. The study recommends reduction of free time from 14 days to 7 days or less to meet a target of 5 days by 2015 and introduction of punitive demurrage fees to discourage importers from leaving their containers at the port despite finishing clearance processes. Lastly, findings like these should be made available to importers to justify new measures to be taken.

TABLE OF CONTENTS

CERT	ΓIFICATION	ii
COPY	YRIGHT	iii
DECI	LARATION	iv
DEDI	ICATION	V
ACK	NOWLEDGEMENT	vi
ABST	TRACT	. vii
LIST	OF TABLES	xi
LIST	OF FIGURES	. xii
LIST	OF ACRONYMS	xiii
CHAI	PTER ONE	1
1.0	INTRODUCTION	1
1.1	Background to the Research Problem	1
1.2	Problem Statement	2
1.3	Research Objectives	4
1.3.1	Main Research Objective	4
1.3.2	Specific Objectives	4
1.4	Research Questions	4
1.5	Significance of the Study	5
1.5.1	Major Contribution of the Study	6
1.6	Organization of the Study	6
CHAI	PTER TWO	8
2.0	LITERATURE REVIEW	8
2.1	Overview	8

2.2	Definitions of Key Concepts	8
2.3	Theoretical Literature Review	9
2.3.1	Warehouse-derived Terminalisation of the Supply Chain	9
2.3.2	Port Policies and Management	10
2.3.3	The Demand Side of Port-Hinterland Container Logistics	11
2.3.4	Port Infrastructures	12
2.4	Empirical Analysis of Relevant Studies	13
2.5	Conceptual Framework	15
2.6	Review of Variables	16
2.6.1	Container Dwell Time	16
2.6.2	Disaggregated Analysis	17
2.6.2.1	Operational Dwell Time	17
2.6.2.2	Transactional Dwell Time	17
2.6.2.3	Discretionary Storage	18
2.6.3	Free Storage Time	18
2.6.4	Import Transit Container Clearance Procedures	19
2.6.4.1	The Import Process at the Port	20
2.6.4.2	The Import Clearance Process at Customs Department	21
2.7	Research Gap	22
2.8	Chapter Summary	23
СНАР	TER THREE	25
3.0	RESEARCH METHODOLOGY	25
3.1	Introduction	25
3.2	Research Design	25

3.3	Population	26
3.4	Sampling	26
3.5	Data Source	27
3.6	Measurement of Variables	28
3.6.1	Operationalization of Variables	29
3.7	Data Analysis	30
CHA	PTER FOUR	31
4.0	PRESENTATION AND DISCUSSION OF FINDINGS	31
4.1	Introduction	31
4.2	Distribution of the Containers Studied by Country of Destination and Size	. 31
4.3	Dwell Time for Import Transit Containers	33
4.4	Transactional and Operational Dwell Times	34
4.5	Container Delivery Patterns	36
4.6	Correlation Analysis	37
CHA	PTER FIVE	39
5.0	CONCLUSIONS AND RECOMMENDATIONS	39
5.1	Conclusions	39
5.2	Recommendations	40
5.3	Areas for Further Research	41
REFE	ERENCES	43
APPE	ENDICES	47

LIST OF TABLES

Table 4.1:	Percentage Distribution of Containers by Country of Destination	32
Table 4.2:	Percentage Distribution of Containers by Size	32
Table 4.3:	Average Dwell Time for Import Transit Containers at Dar es Salaam	
	TPA Container Terminal	33
Table 4.5:	Distribution of Container Delivery in Percentages	36

LIST OF FIGURES

Figure 2.1: Conceptual Framework	16
Figure 2.2: The Components of Cargo Dwell Time: Sequence of Operational	,
Transactional and Logistics Operations	18
Figure 3.1: Data fields from TPA Terminal Operations System	27
Figure 3.2: Data fields from Customs Clearance System Assycuda++	28

LIST OF ACRONYMS

ASYCUDA Automation System of Customs Data

BRN Big Results Now

CDPO Centralized Data Processing Office

CFA Clearing and Forwarding Agent

CFS Container Freight Station

DSM Dare es Salaam

ICD Inland Container Depot

ODCY Off-Dock Container Yards

OGD Other Government Agencies

PAD Pre Arrival Declaration

SPSS Statistical Package for Social Sciences

TAFFA Tanzania Freight Forwarders Association

TANSAD Tanzania Single Administrative Document

TASAA Tanzania Shipping Agents Association

TATOA Tanzania Truck Owners Association

TAZARA Tanzania and Zambia Railway Authority

TBS Tanzania Bureau of Standards

TEU Twenty Equivalent Units

TFDA Tanzania Food and Drugs Authority

TISS Tanzania Inter-Bank Settlement System

TMEA Trade Mark East Africa

TOS Terminal Operations System

TPA Tanzania Ports Authority

UNCTAD United Nations Conference on Trade and Development

CHAPTER ONE

1.0 INTRODUCTION

1.1 Background to the Research Problem

Container dwell time is the length of time over which the container stays at the particular port. It is one of the principal indicators of port's efficiency. The container dwell time demonstrates terminal productivity and overall terminal operational efficiency. The importance of dwell time in container terminal is stressed empirically by Merckx (2005) that reducing dwell time by a half can double yard throughput without investing in new spatial capacity.

The competitive position of the port relies on, among other factors, its ability to handle cargo in the shortest time possible. Shippers often look at this factor to determine which terminal to use where there are alternative choices. Similarly, port authorities and terminal operators rely on this factor to devise appropriate strategic and tactical plans to improve their ports.

In order to improve the cargo supply chain, The Tanzania government through its Big Results Now (BRN) initiative for the Ministry of Transport requires the Dar es Salaam Port to reduce the current dwell time of 14 days for transit containers and 9 days overall to only 5 days by the year 2015 (URT, 2013). Due to this, a committee of experts from all sectors affiliated to Port activities was called upon to come up with a plan on how to achieve the set target. The committee came up with a number of recommendations and directives to which the Port and its stakeholders have to

adhere in a bid to reach the BRN target. Most of these recommendations are aimed at improving port performance in terms of operational and transactional efficiencies only (URT, 2013).

However, there is a possibility that high dwell time in sub-Saharan Africa in general and Tanzania in particular is caused by discretionary behaviours by customers. The customers tend to use the Port as a warehouse in the supply chain rather than a node in the total intermodal logistics chain (Refas & Cantens, 2011).

This study therefore utilizes actual data for import transit containers from TPA Dar es Salaam terminal and Tanzania Revenues Authority (TRA) databases in order to:

(1) explore the average time required to finish all operational and transactional activities at the Port; (2) study delivery pattern to check whether the free time allowed influences the way customers take the containers from the Port and finally (3) apply statistical techniques to prove the assertion that the free storage time plays a significant role for import transit containers delivery at the Port.

1.2 Problem Statement

The on-going efforts to improve performance at the Port of Dar es Salaam are unlikely to achieve intended results of reducing cargo dwell time. This is because most of these efforts are aimed at improving operational and transactional efficiencies. The efforts have included constructing new berths, expanding yards, purchasing new equipment for container handling, implementing information systems to facilitate flow of information in the cargo clearance and delivery

procedures (TPA, 2012). Although these are necessary, they are not sufficient steps to reduce dwell time to attain the intended target.

Rodrigue (2008) argues that the interaction of logistic players with different interests in sea port terminals may have significant impact on dwell time. He further argues that freight forwarders are using terminals as an extended component of their distribution centres and making the best use of the free storage time available in seaport. Over the past decade, the international donor community has been investing in projects that facilitate trade and improve trade logistics in the developing world.

These projects have assumed incorrectly that customs, terminal operators and other controlling agencies are solely responsible for the long delays in ports, with infrastructure coming in second. In reality, customs responsibility (especially for months-long delays) may not be as important as usually perceived, and in-depth data collection and objective analysis are required to determine the actual drivers of long cargo delays (Kgare, *et al.*, 2011).

Similar situations were evidenced in the port of Doula, Cameroon, where despite numerous structural reforms and port improvements, the dwell time remained stagnant at 22 days (Refas & Cantens, 2011). Is this the case with Dar es Salaam Port? This study aims at examining the contribution of the free storage time on the overall import transit containers dwell time by finding evidence or patterns that can suggest such discretionary behaviours by freight forwarders.

1.3 Research Objectives

To address the identified problems, the following research objectives were formulated:

1.3.1 Main Research Objective

The main objective of this study was to investigate the influence of free storage time for import transit containers on the average container dwell time at the Port of Dar es Salaam.

1.3.2 Specific Objectives

To respond to the main research objective, the following specific research objectives were formulated:

- To determine average dwell time for import transit containers at the Dar es salaam port.
- ii). To determine the average time required to perform transactional and operational activities at TRA and TPA respectively.
- iii). To assess delivery patterns of the import transit containers.
- iv). To assess the way free storage time influences the container dwell time.

1.4 Research Questions

To comprehensively address the above specific research objectives and adequately guide the study, the following research questions were formulated:

- i). What is the average dwell time for import transit containers?
- ii). How long, on average, does it take to complete customs clearance procedures and port operations?

- iii). Are there patterns in container delivery showing some logical trends?
- iv). Is there empirical evidence to prove that container dwell time is influenced by free storage time offered?

1.5 Significance of the Study

Dwell time is one of the principal indicators of the port performance. The ability of the port to attract cargo and subsequently generate revenue for the country very much depends on how the port is able to minimize the time vessels and cargo stay in the port.

Hummel (2001) shows that increased transport time adversely affects trade and economies in general; and in turn how shorter times can propel business in the countries connected through sea port.

The reduction of dwell time will thus reduce transportation cost for goods passing through the Dar es Salaam Port, and increase port's revenues. An efficient maritime supply chain will also enable the country to attract increased maritime trade and give it a competitive advantage over its immediate rivals.

Halving dwell time doubles port capacity without extra investment (Merckx, 2005); therefore a lot of money that would otherwise be misappropriated into counterproductive programmes will be saved.

The optimization of port capacity will enable the ports to utilize infrastructure in a better and more efficient manner. Consequently, turn-around time for vessels will be reduced substantially, allowing ports to attract and handle more vessels. Moreover, reduction of dwell time will help to decongest the port and support efficient yard planning.

1.5.1 Major Contribution of the Study

Although there are substantial researches in the area of port performance, quite few researches focus on the issue of dwell time specifically. Even those studies that try to focus on the issue, they look into it from different perspectives, including on how dwell time impacts on trade, competitiveness and productivity. Some researchers suggest that free storage time may be an encouraging factor for discretionary storage. This study attempted to investigate the relationship between dwell time and free storage for import transit containers. The study particularly checked whether data from terminals and customs really supported the long held view of discretionary behaviour of importers.

The findings of this research serve as stepping stone for future researches on the topic and will usher close examination on the determinant factors of the container dwell time at the port of Dar es salaam and other similar ports..

1.6 Organization of the Study

This study is organized into five chapters. Chapter One introduces the study; it begins with a brief background to the problem, a statement of the research problem, the objectives and research questions and justification for the study. Chapter Two presents a detailed review of relevant literature; conceptual definitions, theoretical

and empirical literature review, research gap and conceptual and theoretical frameworks.

Chapter Three presents research methodology and how data were analysed. It also gives the limitation of the study.

Chapter Four presents and discusses research findings with respect to the objectives of the study. Chapter Five presents the summary, research conclusions and recommendations of the study.

CHAPTER TWO

2.0 LITERATURE REVIEW

2.1 Overview

This chapter critically reviews published materials pertinent to the topic of the study. The purpose is to build foundation upon which this study is based and develop understanding and insight into relevant researches and trends (Saunders, *et al.*, 2010). In this regard, this chapter reviews theoretical and empirical studies related to container dwell time and its determinant factors in general, free storage time in particular. In the second part conceptual framework of the study is presented and lastly research gaps from literature reviewed are discussed.

2.2 Definitions of Key Concepts

- i). **Port**: Alderton (2008) defines a port as a maritime intermodal interface. It is an area where there are facilities for berthing or anchoring ships and where there is equipment for the transfer of goods from ship to shore or vice versa.
- ii). Containers: Containers are large boxes used to transport goods from one destination to another. They are designed to facilitate movement of goods without intermediate reloading. Goods in containers require less packaging, are less likely to be damaged and result in higher productivity as compared to conventional bulk cargo (Huynh and Walton, 2005).
- iii). **Transit container**: Container destined for a transit state. The transit state is defined as a country through which container passes en route to destination country.

- iv). **Dwell time**: Manalytics (1979) as cited by Merckx (2005) defined dwell time as the average time a container remains stacked on the terminal and during which it waits for some activity to occur. According to this definition, dwell time also refers to the efficiency of terminal operations. The shorter the dwell time the more efficient the performed operation and vice versa.
- v). **Free storage period**: Kgare et al. (2011) defined it as the time from when the vessel completes discharge and the container is stored in the port area until collection for a specified period without incurring any port storage charges.
- vi). **Import**: Goods brought into the country from oversees as final destination or transit to other countries.

2.3 Theoretical Literature Review

There are not many researches focusing on dwell time and storage time exclusively. This may be because of the fact that containerization concept itself is relatively new phenomenon. Most of the studies have looked into port efficiencies, port capacity, port economics and trade volumes.

There are four standout theories that explain determinant factors of dwell time at container ports; it is from these theories that the objective of this study originates.

2.3.1 Warehouse-derived Terminalisation of the Supply Chain

Refers to an emerging trend where the function of warehousing, in whole or in part, is shifted to the terminal. The terminal becomes the main buffer instead of the distribution centre, which functionally makes the terminal a component of the supply

chain; no longer as a factor of delay, but as a storage unit. Even if this trend appears paradoxical vis-à-vis "just-in-time" strategies, it gives the supply chain a higher level of flexibility to lower their warehousing costs as well as to adapt to unforeseen events such as demand spikes or delays. An "inventory in transit" strategy coupled with an "inventory at terminal" can reduce significantly warehousing requirements at distribution centres.

Rodrigue and Notteboom (2009) argued that freight forwarders, on the one hand, were using terminals as an extended component of their distribution centres and made use of the free time available to store containers at the Port. It is this inference that this research is set to find out, the effect of a long free storage on container dwell time at the port of Dar es salaam.

2.3.2 Port Policies and Management

Moini et al., (2012) argue that Port policy and management can have a direct impact on container dwell time. For example, agreements between container terminals and shippers specify the allowable free period for a container before demurrage fees are incurred. The amount of demurrage fees to be paid after elapse of the free time can also determine whether the customer leaves the container as the cheaper alternative as opposed to taking out the cargo to a private warehouse.

Other factors related to port policies and management include intricate clearance procedures, statutory inspection of containers and degree of computerization for documents transfer (India Secretariat for the Committee on Infrastructure,

2007). Again here the questions of free storage and discretionary behaviour are insinuated as suggested in the first theory of warehouse-derived terminalisation of supply chain.

2.3.3 The Demand Side of Port-Hinterland Container Logistics

The demand side of container distribution originates from shippers. The shipper is a transportation customer who needs to move containerized cargo from one location to another. He/she is normally the cargo owner, and could be the consignor or the consignee depending on its position and function in the supply chain. The term shipper is also employed to designate an intermediary broker or third-party logistics company governing and coordinating the whole delivery process for cargo owners. In port-hinterland container logistics, shippers typically aim to the minimization of generalized costs, which include direct and indirect costs of distribution operations (Iannone, 2013).

The theory essentially argues that shippers are holding the ports at ransom by looking for ways to minimize their total cost with little regards paid to the efficiency of the container ports. In other words, if leaving the container at the port for some time is cheaper than moving it quickly to destination warehouse, the shipper will opt for the former.

The decision taken by the shipper to move the cargo out of the port quickly or late will depend on port policies as discussed in the theory of port policies and management as well as the supply chain setup for the business undertaken by the shipper.

2.3.4 Port Infrastructures

Extensive researches have so far been done on this as single most determinant factor of higher dwell time at container terminals. Issues looked into include:

Inadequate Port Capacity: The volume of the cargo being handled at the port has been increasing especially with emergency of containerization while the infrastructure has remained the same over time. This leads to congestion and difficulty in handling cargo in time.

Poor transport system within the Port and immediate hinterland: Very few ports are directly connected with reliable railway system. Those lucky enough to have intermodal link, the railways have been ailing; forcing customers to opt for trucks. Trucks pose another challenge in the hinterlands and the ports alike.

Inadequate cargo handling equipment: cargo handling equipment like gantry cranes, reach stackers and Gottwald cranes are very expensive and most terminal operators cannot afford them adequately. This causes delays due to waiting for handling equipment (India Secretariat for the Committee on Infrastructure, 2007).

Huynh (2008) introduced a method to evaluate the effect of container dwell time and storage policies on import container throughput, storage density and re-handling productivity. He considered two import storage strategies: 1) non-mixed- no stacking of new import containers on top of old ones and 2) mixed –stacking. For a non-mixed storage policy, it was found that the increase in container dwell time lowered

throughput while it increased re-handling productivity. For the mixed storage policy, the increase in container dwell time raised throughput but decreased re-handling productivity.

2.4 Empirical Analysis of Relevant Studies

There are many factors that affect performance of a container terminal. One indicator of the terminal's performance is the average time a container remains stacked on the terminal from the moment it is offloaded from the vessel to the time it gets out of the gate in the import cycle, and the converse in the export cycle. Merckx (2005) did extensive research on the impact of dwell time on terminal throughput. He observed that halving container dwell time doubles yard throughput at no investment.

However, he noted the common practice by shippers to use terminal stacking areas as overflow nodes in logistics chains. Merckx (2005) introduced punitive storage charging as the means of discouraging the shippers to use the terminal as their warehouse. In Africa however, this alone cannot be a remedy to the problem of dwell time because concession rates are normally used as a marketing tool to attract cargo and compete with rival ports (kgare et a., 2011).

Nyema (2014) looked into the factors influencing container dwell time at Mombasa port, covering broader issues directly influencing container terminal efficiency such as inadequate quay/gantry crane equipment, reducing berth times and delays of container ships, container cargo and truck turnaround time, custom clearance, limited storage capacity, poor multi-modal connections to hinterland and infrastructure..

According to Nyema (2014), these issues were the culprits for the delays at Mombasa Port and he advocated improvement of infrastructure and integrated cargo clearance information systems as an answer to the problem of higher dwell times and congestions at the Port. The major shortcoming in this study is the fact that he did not use terminal data, since he interviewed terminal users and recorded their opinions. In view of this fact Moini et.,(2012) are of the firm opinion that to correctly determine which factors influenced dwell time the most, one needs to study the terminal operations data.

One unique study of dwell time was carried out by Refas and Cantens in 2011 at the Port of Doula, Cameroon; commissioned by the World Bank. Cameroon was a special example of the port that has undergone substantive operational and transactional reforms in a bid to improve performance. Doula Port is largely a transit port feeding hinterland countries of central Africa. As such the World Bank took keen interest in improving performance at the port in terms of equipment, spatial increase of container yards, fully implemented ASSYCUDA system for custom clearance as well as terminal cargo handling system. However, the results were disappointing as dwell time remained constant for ten years despite the efforts (Refas & Cantens, 2011).

The study was carried out to find out why the dwell time was not dropping down.

They used Clearance data from ASSYCUDA combined with handling data from the port and applied statistical analysis to determine the causes of persistent dwell time.

It was found that it took less than 7 days to complete customs and port clearance

procedures. The question remained why then the average dwell time was stuck at 20 days. Some external factors, primarily discretionary behaviours by shippers making use of the available long free time at the port were suggested.

The Port of Durban in South Africa has the lowest container dwell time of all sub-Saharan African ports. Kgare et al., (2011) show that Durban port is one of the relatively advanced ports in Africa with container dwell time at an average of 3-4 days, and at same time free time offered at Durban port is 3 days. This suggests a positive correlation between free time and dwell time, which this research intends to find out for the Port of Dar es salaam.

2.5 Conceptual Framework

As depicted in the conceptual model of the study presented in Figure 2.1 below, average dwell time is a combination of three dwell times, namely operational, transactional and discretionary dwell times. Discretionary dwell time seems to have greater contribution than others, which is caused by presence of huge free storage period.

Operational dwell time is mainly the time to unload vessels and store containers in yards. It mainly depends on the efficiency of the port and the availability of equipment combined with the level of occupancy of storage facilities.

Transactional dwell time mainly concerns the transaction time between the importers/port services and customs procedures.

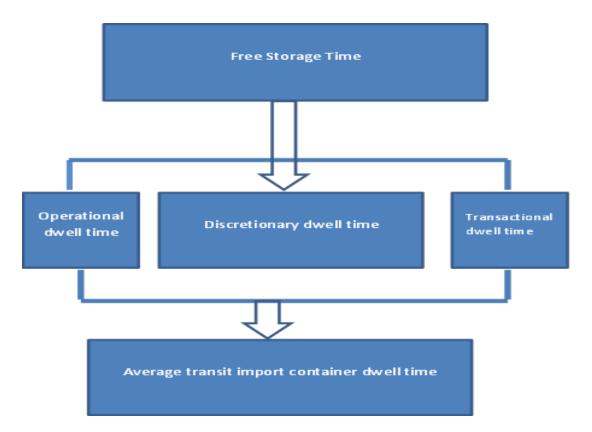


Figure 2.1: Conceptual Framework

Source: (Literature Review by Researcher, 2015)

2.6 Review of Variables

2.6.1 Container Dwell Time

Merckx (2005) defines the container dwell time as the average time a container remains stacked on the terminal and during which it waits for some activity to occur. According to this definition, dwell time also refers to the efficiency of terminal operations. The shorter the dwell time the more efficient the performed operation and vice versa.

Dwell times can be influenced by many factors, some of which are unrelated to the service quality. For instance, commercial customers often use the storage yard as an

overflow node in their supply chain creating an intentional delay. This situation distorts dwell time data since some of the commercial customers place their export cargo on the terminal well before the time required to catch the intended vessel and may leave their import cargo on the terminal yard for an extended time after arrival.

Another aspect of the dwell time is the amount of time required to process the paperwork for the release/intake of a container. However, with the increasing level of information and paperless documentation procedures in maritime transportation, this specific element is becoming less relevant. In order to analyse data on container dwell times, it is important to take these aspects into account.

2.6.2 Disaggregated Analysis

Raballand *et al.*, (2012) divide the container dwell time into three constituent components. These are operational dwell time, transactional dwell time and discretionary dwell time as shown in Figure 2.2 below.

2.6.2.1 Operational Dwell Time

Refers to the performance of physical operations at the port or container terminal, mainly the time to unload vessels and store in yards. It depends on the efficiency of the port and the availability of equipment combined with the level of occupancy of the storage facilities.

2.6.2.2 Transactional Dwell Time

Mainly concerns the transaction time between the importers customs and other government agencies (OGD).

2.6.2.3 Discretionary Storage

It is the residual having taken into account operational and transactional dwell time.

2.6.3 Free Storage Time

Several factors affect the length of the period over which a container remains in a marine terminal yard (container dwell time).

The single most important factor, according to recent studies on dwell time in sub-Saharan African ports, is the use of the port as storage warehouse by importers or their agents. It seems that importers are taking advantage of the opportunity of free storage given and only consider taking their cargo when the free storage nears expiry (Refas & Cantens, 2011).

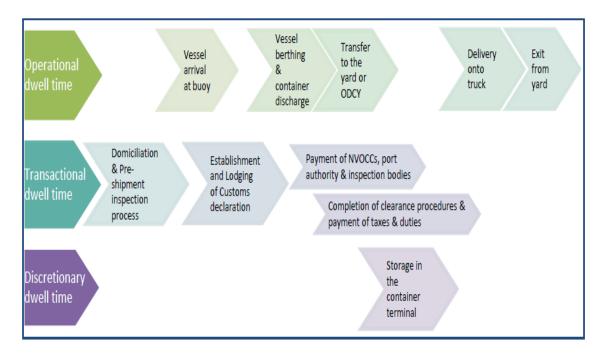


Figure 2.2: The Components of Cargo Dwell Time: Sequence of Operational,
Transactional and Logistics Operations

Source: (Refas and Cantens, 2011)

Free storage time is defined as the time from when the vessel completes discharge and the container is stored in the port area until collection for a specified period without incurring any port storage charges. This leads to discretionary storage which is the sum of all idle times between container arrival and exit from container yard that are strictly storage times with no clearance process or handling operation performed.

It is this link between container dwell time and discretionary storage prompted by free time that this study explores at the Port of Dar es salaam.

2.6.4 Import Transit Container Clearance Procedures

There are various actors, institutions and agencies, that are in one way or another involved in the process of cargo delivery at the Port of Dar es salaam as required by the law. Their involvement depends on the type and nature of the cargo involved, destination and other factors. The main actors involved in the clearance of cargo at the Port (TPA, 2010) are:

- Tanzania Ports Authority (TPA)
- Tanzania Revenue Authority (TRA)
- Tanzania Freight Forwarders Association (TAFFA)
- Tanzania Shipping Agents Association (TASAA)
- Tanzania Truck Owners Association (TATOA)
- Tanzania Bureau of Standards (TBS)
- Tanzania Food and Drugs Authority (TFDA)

- Ministry of Agriculture, Food Security and Cooperatives
- Ministry of Health Port Health Office
- Ministry of Livestock Development and Fisheries
- Ministry of Natural Resources and Tourism
- Tanzania Atomic Energy Commission
- The Government Chemist Laboratory Agency

2.6.4.1 The Import Process at the Port

- i). The TPA receives Cargo Manifest electronically from Ships Agent.
- ii). The CFA lodges Custom's Release Order and Delivery Order at TPA's Revenue Office.
- iii). CFA collects invoice from TPA's Revenue Office.
- iv). CFA agent pays relevant port charges to TPA's Bank Account and obtains receipt for payment made.
- v). CFA agent announces truck for delivery.
- vi). Truck proceeds to gate and driver produces valid driving licence and truck registration card to TPA's gate attendants and obtains gate-in ticket.
- vii). Truck proceeds to loading point and loads cargo.
- viii). TPA issues gate pass for loaded truck and truck proceeds to check point for inspection and other gate-out formalities.
 - ix). Truck proceeds to exit gate, obtains gate-out ticket to exit port gate.

These activities constitute what is called operational dwell time. Kgare *et al.*, (2011) assert that operational dwell time is mainly the time to unload vessels, storage in

yards and marshalling of trucks for delivery. It mainly depends on the efficiency of the port and the availability of equipment combined with the level of occupancy of the storage facilities.

2.6.4.2 The Import Clearance Process at Customs Department

- i). Customs agent submits Tanzania Single Administrative Document
 (TANSAD) with attachments electronically to Centralized Data Processing
 Office (CDPO) through Automation System of Customs Data (ASYCUDA ++) and ASY-SCAN connected remotely in their office or Data Bureau.
- ii). Customs agent generates TANSAD using ASYCUDA++ system based on
- iii). (Pre Arrival Declaration) A-PAD issued by Dar es Salaam (Customs ServiceCentre) CSC and submits with scanned attachments electronically to CDPO.
- iv). Customs agent pays Duties and Taxes to the bank. The amount exceeding Tshs 5 million is paid through Inter-bank Settlement System (TISS) and amount less than Tshs 5 million is paid directly to a TRA cashier or point of sale system.
- v). Customs agent submits payment receipt to cashier for striking into ASYCUDA++ system (payment through TISS).
- vi). Customs officer enter TANSAD registration number into ASYCUDA++ system once Duties and taxes of the respective TANSADs are affected on ASYCUDA++ system requesting for release.
- vii). Selectivity is performed automatically. TANSADs are channelled into GREEN for Direct Release, YELLOW for Documentary check, RED for Scanning/Physical verification.

- viii). Customs officer performs documentary check to reconcile information recorded in A-PAD and TANSAD. If it conforms, release order is issued or TANSAD is channelled to scanning or physical verification (depending on risk criteria). If Non-conformity is observed, TANSAADs are channelled into Error Management for amendment.
 - ix). TANSAD selectivity status is availed to Agent and the entry/exit station for subsequent cargo release.

These activities constitute what is called transactional dwell time. Kgare *et al.*, (2011) assert that transactional dwell time mainly concerns the transaction time between the importers/port services and customs.

2.7 Research Gap

Based on the theoretical and empirical literature reviewed in this chapter, it can be seen that since the emergence of containerization, researchers have been trying to find out the causes of longer dwell times at ports. Some have concentrated on improvement of infrastructure such as ports' spatial capacities and crane moves, and they have tried to develop mathematical models to express the same. Some have been able to point out the root cause of the longer dwell time as being shippers' decision in the light of total logistic costs (Iannone, 2013). Kgare et al. (2011) were able to empirically show discretionary behaviour by customers willingly leaving their containers at the port as cheap warehouse option.

From the literature reviewed, this is the first research that attempts to investigate

whether the free time can be dictating the longer dwell times for import containers at the port of Dar es Salaam.

2.8 Chapter Summary

Transport and supply chain researchers have been paying more attention to the issue of dwell time in recent years. This may have been caused by the expansion of cross-border trades and high level of integration in the supply chain.

Port researchers have studied the issue of port dwell time by looking at four main topics: port operations and, in particular, the means of optimizing port productivity; trade competitiveness, which considers the impact of cargo dwell time on trade; port competition, which has recently been the subject of growing attention in the context of direct competition between port terminals at the regional and global levels; and supply chain performance. However, no one has specifically analysed port dwell time as a subject of research by itself. In other words, port dwell time is generally seen as a determinant of analytical outputs such as port efficiency, port capacity, or even trade volumes, but it is not treated as an issue worthy of attention by itself. Nevertheless, research has shown its growing importance and relevance in the context of modern port operations and trade logistics.

The importance of reducing dwell time to increase port capacity throughput is undisputed. It is established that halving dwell time can potentially double the throughput of the port. Researchers have spent a lot of time to understand why cargo spends weeks in sub-Saharan Africa. They have studied determinant factors of the

dwell time and concluded that private sectors more than public institutions of customs and port authorities accounted for long dwell times in Sub-Saharan African ports.

CHAPTER THREE

3.0 RESEARCH METHODOLOGY

3.1 Introduction

This chapter presents the methodology employed in the study; it describes research methods, target population, sampling techniques and the sample size. In addition, it presents data collection methods employed in the study and rationale for employing these techniques.

3.2 Research Design

This study is primarily quantitative and also descriptive because the aim of the researcher is to quantify relationships between variables, which are free storage and dwell time for import transit containers at Dar es Salaam Port and to determine correlation between these two variables.

According to the research questions, the main variables of the study are of numerical nature and are mathematically analysed in order to establish relationships between them. It was therefore imperative for the researcher to go for quantitative research design.

Zikmund et al., (2009) state that the descriptive method of research is used to gather information about existing conditions. The emphasis is on describing rather than on judging or interpreting. The aim of descriptive research is to verify formulated hypotheses that refer to the present situation in order to elucidate it. The descriptive approach is quick, practical and cost effective. Moreover, this method allows a

flexible approach, thus, when important new issues and questions arise during the duration of the study, further investigation may be conducted. The aim of the research was to investigate whether there is evidence in the data from terminal and customs to suggest discretionary behaviour on the part of importers and their agents opting to take advantage of the long free time offered. It was therefore logical for the researcher to employ this method.

3.3 Population

The study aimed at tracking container records in the Port and Customs information systems to determine durations for clearance and delivery i.e. operations at the Port and Customs. The target population was Import Transit Containers through Dar es Salaam Port TPA container terminal about 3000 TEUs for the period under observation (January-April 2014).

3.4 Sampling

This was a cross-sectional study; therefore a snapshot of a population at a certain time was selected, allowing conclusions about phenomena across a wide population to be drawn. Given the study time available, it would be impractical for a researcher to conduct longitudinal study for the subject under observation. Moreover, the study deals with huge database of continuous operational data from container terminal of the Dar es salaam Port and corresponding records from TRA. It was thus wise for the researcher to take a' snapshot' that is a point in time for the study. The cross-sectional study design is best suited for descriptive research in which the aim is to study some patterns in the data and relationships between variables.

27

Only the most productive records were selected fulfilling the following criteria were

selected:

i). Import Transit containers records extracted from TPA and TRA systems in the

period of January-April 2014. The period is known as 'peak' period therefore

delays are most prevalent and noticeable in this period than any other period of

the year (Moini, 2010).

ii). The first 'peak' quarter after BRN initiative came into effect. The aim was to

capture infrastructural and operational improvements' impacts on the dwell time.

iii). The containers selected had to have complete records in both TPA and TRA

systems.

This study used 583 records that satisfied the criteria above.

3.5 **Data Source**

In order to meet the objectives of the study, the researcher required data from TPA

Terminal Operations System (TOS) as well as Customs Database (TRA

Assycuda++). The data provided by the TPA terminal and Customs contained

information for all import transit containers that were handled by the terminal during

a first quarter of 2014. Data fields' headers are shown in Figures 3.1 and 3.2 below.

Since these records were not naturally integrated, further analysis and organization

were performed to get records which appeared in both systems.

CONT NUMBER BLNo Commodity Description CFAgentN DischargeDate DeliveryDate InDate OutDate GrossWeirCountry Destinatic Truck PaymentDate InvoiceDate CustomsR VesselNar OnBerthTime OffBerthTime SailAwayTime TruckINDate

Figure 3.1: Data fields from TPA Terminal Operations System

Source: (Documentary Review, 2015)

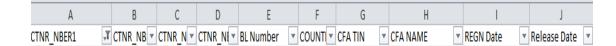


Figure 3.2: Data fields from Customs Clearance System Assycuda++

Source: (Documentary Review, 2015)

From these records relevant data were extracted and processed for analysis. The data included container number, destination, discharge date, delivery date, and truck in and out dates, release lodge in date and release issue date. Total container dwell time, operational dwell time and transactional dwell time were henceforth determined.

Data selection based on three criteria devised by the researcher as follows:

- Purpose: The objective of the study guided data selection process. Only data that could help to answer research questions were selected.
- ii). Scope: Container records selected were those falling in the pre-mentioned time horizon, import, transit destination through Dar es Salaam port TPA container terminal.
- iii). Format and Completeness: Only clean records were selected for which there was link in TPA and TRA databases.

3.6 Measurement of Variables

The study is based on two variables; the independent variable i.e. free storage time, and dependent variable, dwell time. Both are quantitative numerical variables.

Free time is defined as the time from when the vessel completes discharge and the

container is stored in the port area until collection for a specified period without incurring any port storage charges (Refas & Cantens, 2011).

Import container total dwell time in ports is defined as the total time lapse between discharge from the vessel and delivery out of the exit gate (Kgare*et al.*, 2012). Operational dwell time is also defined as total time for the physical transfers only plus the necessary idle time between operations by terminal operator.

Transactional dwell time mainly concerns with transactions time of importers or their agents at customs.

3.6.1 Operationalization of Variables

Operational dwell time is equal to the sum of Discharge and Transfer Time plus Invoice Issue and Receipt Time plus Delivery Truck Turnaround Time.

Transactional dwell time is equal to difference between Release Issue Date and Release Request Date.

Total dwell time is equal to the difference between Container Delivery Date and Container discharge Date.

Free time impact is equal to the difference between Pre-Set Free Time and (the sum of Operational Dwell time and Transactional Dwell Time).

Discretionary dwell time is equal to the difference between Total Dwell Time and (the sum of Operational Dwell Time and Transactional Dwell Time).

3.7 Data Analysis

Data used in this study were first extracted from the Terminal Operations Database of TPA and clearance data from TRA's Assycuda++ system. The clean records from both files were merged into one file and then formulas applied to obtain required variable quantities as per definitions. The records were exported into Statistical Package for Social Sciences (SPSS) for statistical analyses. Microsoft Excel 2010 and SPSS Version 20 were used to generate descriptive statistics and trends in the data as per objectives.

Pearson correlation coefficient was used to determine the strength of relationships between the two variables, free time impact and discretionary dwell time.

CHAPTER FOUR

4.0 PRESENTATION AND DISCUSSION OF

FINDINGS

4.1 Introduction

This chapter presents and discusses research findings. The results are presented according to the study objectives which are:

- To determine average dwell time for import transit containers at the Dar es salaam port.
- ii). To determine the average time required to perform transactional and operational activities at TRA and TPA.
- iii). To assess delivery patterns of the import transit containers.
- iv). To assess the way free storage time influences the container dwell time.

Quantitative statistical techniques have been employed to analyse data and present the findings to answer the study questions.

4.2 Distribution of the Containers Studied by Country of Destination and Size

The study investigated the dwell times and delivery patterns of import transit containers at the Dar es Salaam Port. The Dar es salaam Port serves six transit countries of Malawi (MW), Zambia (ZM), DR Congo (CD), Burundi (BI), Rwanda (RW) and Uganda (UG). The study did not discriminate 20 feet containers and 40 feet containers.

Table 4.1: Percentage Distribution of Containers by Country of Destination

Transit Country	Percentage Number of Containers
BI	18
CD	21
MW	1
RW	28
UG	0.5
ZM	31.5

Source: (Field data, 2015)

Table 4.2: Percentage Distribution of Containers by Size

Container Size	Percentage Number of Containers
20"	48
40"	52

Source: (Field data, 2015)

As it can be seen in Table 4.1 above, Burundi, DR Congo, Rwanda and Zambia accounted for more than 90% of the transit containers in the sample studied. This may be an indication that Malawi and Uganda are no longer relying on Dar es Salaam Port as their main gateway. This is because Uganda and Malawi have alternative seaport gateways of Mombasa and Nacala respectively.

Table 4.2 shows that the distribution of containers in the sample was evenly distributed with regard to size, with 20 feet containers accounting for 48% and 40 feet containers accounting for 52%. This shows that there is no significant difference in terms of choice of container size and, therefore, whatever applies to 20 feet containers applies to 40 feet containers just as well.

4.3 Dwell Time for Import Transit Containers

The total time the container remains stacked in the yard is a very important performance indicator in the container terminal. The longer the dwell time the worse the performance or productivity of the container terminal. In the world of stiff competition between ports serving the same hinterland, dwell time can make or break the business of the port and subsequently the overall economy of the country. Importers often choose the port that guarantees less dwell time in a normal just-in-time supply chain setup.

One of the objectives of this study was to find how long on average import transit containers stay at the Dar es Salaam Container Terminal. The data analysis was carried with aid of SPSS software and results are displayed in the figure 4.3 below

Table 4.3: Average Dwell Time for Import Transit Containers at Dar es Salaam

TPA Container Terminal

Descriptives								
			Statistic	Std. Error				
Container Dwell Time	Mean		13.92	.035				
	95% Confidence Interval for	Lower Bound	13.85					
	Mean	Upper Bound	13.99					
	5% Trimmed Mean	13.96						
	Median	Vledian						
	Variance		.722					
	Std. Deviation		.850					
	Minimum		6					
	Maximum		18					
	Range		12					
	Interquartile Range		0					
	Skewness		-2.731	.101				
	Kurtosis		30.905	.202				

Source: (Field data, 2015)

The results displayed in table 4.3 shows that the average dwell time for import transit containers is 13.92 days. The median is at 14 days. This is in agreement with a study carried by TMEA (2013), which shows average dwell time at 14 days too. We may be surprised why 14. It is this suggestion that prompted this study. Two questions arise from this number. First, 14 is storage free period given for transit import containers; are dwell times and this free period anyhow correlated? The correlation analysis carried out in the same sample may shade some light. Secondly, why is there no significant variation in the result from previous studies? Is there a deliberate attempt by importers to take advantage of the free period time as Refas and Cantens (2011) suggest in their study.

Kgaelet al., (2012) suggest the use of median instead of the mean to measure average dwell time. This is because the mean tends to be acutely affected by long stayers i.e outliers; Containers could stay so long in the port, but not because of port or customs inefficiencies. In the findings as shown in Figure 4.3, the median is at 14 days. This may be because long stayers became outliers in the SPSS analysis that were rejected and thus prompting median and mean to converge together.

4.4 Transactional and Operational Dwell Times

The time taken to complete customs clearance procedures (transactional time) and the time taken to do actual handling of the container at the terminal (operational time) are absolute indicators of the performance of the port because they exclude factors that are not related to customs and the terminal operator. Analysis of the data showed that it takes an average of 2.1 days to complete customs and agencies

procedures and 1.34 to complete all terminal procedures which makes roughly 4 days average. This finding concurs with the Kgare *et al.*, (2012) who studied sub-Saharan ports. In fact, the figure is comparable to that of the Durban Port in South Africa, which has an average dwell time of 4 days. The huge difference found in the average dwell time between the Dar es Salaam and Durban Port cannot wholly be attributed to absolute port performance or productivity. Rather, it is an indication of some deliberate actions by port users not willing to remove their cargo from the port because it is either cheaper or there is no punitive demurrage fees charged.

Another surprising finding from these data and literature is that, Durban Port has roughly 3 days operational and transactional dwell time, 3 days free time and 4 days average dwell time. The Dar es Salaam Port, on the other hand, has average of 4 days transactional and operational dwell time, 14 days average total dwell time and 14 days pre-set free time. Can it be that average dwell time in Sub—Saharan Africa is driven by free time given rather than port performance? This calls for correlation analysis into the data and study of delivery behaviour patterns.



Figure 4.4: Import Transit Containers Delivery Trends

Source: (Field data, 2015)

4.5 Container Delivery Patterns

The study also sought to find out whether there are discernible delivery patterns in the ways importers or their agents remove the cargo from the terminal. The findings from the terminal data are depicted in Figure 4.4 below.

Based on Figure 4.4 above, there is little or no activity in the first 5 days of the container's stay at the port. This is followed by some minimal activity from day 6 to day 10. There is then a sharp rise in the activity from days 11 to 15 followed by sharp drop in days 16 to 20. Is the peaking in the day 11 to 15 accidental? Refas and Cantens (2011) suggest that, possible explanation of the main peak observed may be a psychological threshold linked to an expiration of the free time period (an interesting opportunity of free storage that shippers want to fully take advantage of).

Table 4.5: Distribution of Container Delivery in Percentages

	Dwell Days		Frequency	R.F	R.P(%)
1		5	0	0	0
6		10	4	0.006861	0.686106
11		15	565	0.969125	96.91252
16		20	14	0.024014	2.401372
			583	1	100

Source: (Field data, 2015)

It is not suprising that majority of deliveries, almost 90%, are happening towards the 14th day, the day of the expiry of free storage period as indicated in Table 4.5. This is yet another indication that free storage may be influencing importers decision to remove their containers from the terminal.

4.6 Correlation Analysis

Figure 4.6 gives graphical relationship between our main variables under investigation, which suggest a positive correlation.

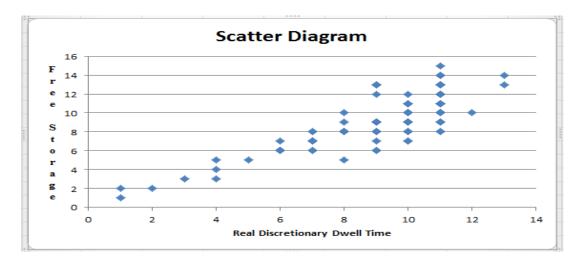


Figure 4.6: Scatter Diagram of Free Time Impact against Discretionary Dwell

Time

Source: (Field data, 2015)

Pearson's Correlation Test was used to test the direction and strength between the main study variables- free storage discretionary dwell time and real discretionary dwell time. The results are presented in Figure 4.1 below from SPSS analysis output.

Table 4.7: Correlation Analysis of the Main Variables

Dwell Time Relative to Free Real Discretionary Storage Time **Dwell Time** Dwell Time Relative to Free 725 Pearson Correlation Storage Time Sig. (2-tailed) .000 583 583 Real Discretionary Dwell Time Pearson Correlation .725 1 Sig. (2-tailed) .000 583 583 N

Correlations

**. Correlation is significant at the 0.01 level (2-tailed).

Source: (Field data, 2015)

The relationship between free storage impact (as measured by Dwell time relative to free storage) and Real Dwell time (as measured by Real Discretionary Dwell time) was investigated using the Pearson Product-Moment Correlation Coefficient. The computation indicates that there is a strong positive correlation between the two variables, $r=.728,\,n=583,$

p < .0005.

The result as shown in Table 4.7 highlights a strong association of .725 between variables under study, with statistical significance of less than 0.05. We thus conclude that there is a statistically significant correlation between the variables. In other words, an increase or decrease in free storage time does significantly relate to an increase or decrease of dwell time of containers at the Dar es salaam Port.

CHAPTER FIVE

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

This study sought to examine if free storage time given for import transit containers has an influence on the average container dwell time at the Port of Dar es Salaam. Thus trying to explain why longer dwell times persist at Dar es salaam despite huge efforts and investments being undertaken to improve the Port's spatial capacity, operational productivity and transcational efficiency.

To achieve the main objective, the study sought to answer the following questions:

- i). What is the average dwell time for import transit containers?
- ii). How long does it take to complete customs clearance procedures and port operations?
- iii). Are there patterns in container delivery showing some trends?
- iv). Is there empirical evidence to show that container dwell time is influenced by free storage time.

By collecting and analyzing the data, the following findings are observed:

- i). The mean and median dwell time for import transit containers from the sample drawn is 14 days.
- ii). It takes an average of 4 days to complete customs clearance procedures, truck marshalling and terminal container handling procedures.
- iii). Most import transit container deliveries tend to happen in the last 2 days of the expiry of the free storage, with majority happening in the last day.

iv). There is a strong positive correlation between free storage and dwell time of import transit containers at the Dar es Salaam Port.

The general observation from the study findings is that delivery of containers is dictated by free time given at the Dar es Salaam Port, thereby influencing average dwell time of the containers. This means reduction of dwell time as the target cannot be achieved by huge investments in increasing terminal spatial capacities, structural operational reforms, sophisticated handling equipment and efficient declaration and clearance procedures alone. These count for very little time of the whole dwell time. As of now, these count for 4 days of the 14 days dwell time of the import transit containers. Furthermore, the study has revealed that importers and their agents are not motivated to move their containers early; exploiting the huge free storage time of 14 days offered. Importers tend to deliver their containers not as soon as they finish clearance procedures but rather as expiry of free time approaches.

5.2 Recommendations

Based on the above findings from the study, the following are recommended:

- i). Free storage time for import transit containers must be lowered considerably from the current 14 days to 7 days or less to achieve the BRN target of 5 days dwell time by 2015. The rationale is that importers and their agents will continue to exploit the huge free storage period until punitive measures are introduced.
- ii). Introduce punitive demurrage fees so as to discourage importers from leaving their containers at the Port. The point here is that the storage fees at the Port

must be many times higher than private Off-Dock Container Yards (ODCY) so that importers clear their containers and immediately move to the private yards if, for some reasons, they are not ready to send them to respective destination countries.

- iii). ICDs and CFSs should not only serve as port extensions, but rather as alternative storage areas. This means ICD must charge lower storage fees than port terminal and longer free period than the terminal. If they cannot operate in the mixed mode, then some ICDs and CFSs must be designated as purely private container storage areas. ICDs and CFSs operating in the similar manner as the terminal itself helps to decongest the port in the short run, but eventually they will be saturated and in fact does very little as far as dwell times are concerned.
- iv). Strong private sector awareness campaign must be launched so that importers are aware of the losses of leaving the commodities idle at the port contrary to just-in-time inventory techniques. Terminal operators must confront customers with valid data of the actual time required to perform port clearance procedures as basis of lowering free storage time.

5.3 Areas for Further Research

While this study simply shows evidence of discretionary behaviour by importers and their agents willingly leaving the containers at the port by exploiting available free storage period, further research is called for in the following areas:

i). Comparative cost advantages of leaving the containers at the port of Dar es salaam and delivering early to the required transit destination in the light of

- total logistics costs.
- ii). The dwell time pattern with other cargo types such as Motor Vehicles which are the second largest commodity handled in Dar es Salaam Port nowadays.

 Does it exhibit the same behaviour as containers?
- iii). The consignee-agents relationship must be examined. For transit containers with consignee in hinterland countries, it may be that the agents are exploiting this by working slowly, misusing funds while giving a different picture of the port performance to their principals.

REFERENCES

- Alderton, P. (2008). *Port Management and Operations*. 3rd ed. London: Informa Law.
- Amanfu, H. (2012). The Introduction of Off-dock Terminals and their Impact on Cargo Clearance Operations in the Tema Port Focus on Shippers.

 Avaialable from: http://r0.unctad.org/tft2012/doc/ptp.en/ghana/ms.helena.

 amanfu.pdf [Accessed 26/03/2014].
- Esmer, S. (2008). *Performance Measurements of Container Terminal Operations*.18p. Retrieved on 18/02/2014.

 http://www.sbe.deu.edu.tr/dergi/cilt10.say%C4%B11/10.1%20esmer.pdf.
- Fisher, C. (2010). Researching and Writing a Dissertations: An Essential Guide for Business Students. 3rd ed. Gosport, Hamspshire: Ashford Colour Press Ltd.
- Hummels, D. (2001). Time as a Trade Barrier. *GTAP Working paper*, No.18.

 Available from: http://docs.lib.purdue.edu/gtapwp/18 [Accessed 18/02/2014].
- Huynh, N. & Michael, C. (2005). Walton, Methodologies for Reducing Truck Turn Time at Marine Container Terminals, Center for Transportation Research at Texas, May 2005.
- Iannone, F. (2013). Modelling the Extended Gateway Concept in Port Hinterland Container Logistics. Smart Transport Networks, 150. http://ssrn.com [Accessed 04/3/2015].
- Kgare, T., Raballand, G. & Ittmann, H. W. (2011). Cargo Dwell Time in Durban.

 Lessons for Sub-Saharan African Ports. *Policy Research Working Paper,No.*

- *5794.* Available from: http://elibrary.worldbank.org/doi/pdf/10.1596/1813-9450-5794 [Accessed 18/02/2014].
- Khaled, E. (2012). The Development of a Port Performance Measurement System:

 With Reference to Damietta Port, Egypt. Doctoral Thesis, University of

 Huddersfield. Avaiable from:

 http://eprints.hud.ac.uk/17488/1/kelsaktyfinalthesis.pdf [Accessed 23/06/2014].
- Kothari, C. R. (2004). Research Methodology: Methods and Techniques, 2nd Edition. New Age Publication, New Delhi ISBN: 81-224-1522-9.
- Lu, J. (2008). Improving Efficiency in Transport Supply Chain: An Analysis of Container Dwell time Reduction at APM Terminals Rotterdam (MSC), Delft University of Technology.
- Merckx, F. (2005). The Issue of Dwell Time Charges to Optimize Container Terminal Capacity. In: *IAME 2005 Annual Conference*. *Limassol*, *Cyprus 23-25 June*, 2005.
- Moini, N. (2010). Modelling The Interrelationship between Vessel and Truck Traffic at Marine Container Terminals. Doctoral thesis, The State University of New Jersey.
- Moini, N., Boile, M., Theofanis, S. & Lavetha W.(2012). Estimating the determinant factors of container dwell times at seaports. *Maritime Economics & Logistics* Vol. 14, 2, 162–177.
- Mwesenga, H. (2012). Port Performance Indicators: A Case of Dar es Salaam Port.

 UNCTAD Ad Hoc Expert Meeting on Assessing Port Performance, Geneva,

- Switzerland, December 2012. Retrieved from: http://unctad.org/meetings/en/Presentation/ [Accessed 07/06/2014].
- Nyema, S.M. (2014). Factors Influencing Container Terminal Efficiency: A case Study of Mombasa Entry Port. *European Journal of Logistics Purchasing and Supply Chain Management* Vol.2, No.3, pp. 39-78.
- Refas, S. & Cantens, T. (2011). Why Does Cargo Spend Weeks in African Ports? The Case of Douala, Cameroon. *Policy Research Working Paper*, *No.* 5565. Avaiable from: http://elibrary.worldbank.org/doi/pdf/10.1596/1813-9450-5565 [Accessed 18/02/2014].
- Rodrigue J. P. (2008). *The Terminalization of Supply Chains: Reassessing Port/Hinterland Logistical Relationships*. In proceeding of IAME 2008.

 Available from: http://people.hofstra.edu/jean-paul_rodrigue/downloads/Rodrigue-Notteboom-IAME2008-final.pdf.
- Saunders, M., Lewis, P. and Thornhill, A. (2009). *Research Methods for Business Students*. 5th ed. Harlow: Prentice Hall Financial Times.
- Tanzania Ports Authority (2012). *The 2nd Corporate Strategic Plan 2011/12 2015/16*. Available from: http://www.tanzaniaports.com [Accessed 20/2/2014].
- Tanzania Ports Authority (2010). *Cargo Clearance Guidelines:* A Simple Guide to Clearance of Cargo through the Port of Dar es Salaam, Tanzania. Available from www.mit.go.tz/pdf/ [Accessed 20/02/2014].
- The Secretariat for the Committee on Infrastructure Planning Commission (2007).

 *Reducing Dwell Time of Cargo at Ports. New Delhi.

- URT (2013). Tanzania Development Vision 2025-Big Results Now. In: National Key

 Results Area Transport Lab-Port .Avaiable from: http://www.tzdpg.or.tz

 [Accessed 15/01/2014].
- Zikmund, W. G., Babin, B. J., Carr, Jon C. & Griffin, M. (2008). *Business Research Methods*. 8th ed. Canada: South-Western, Cengage Learning.

APPENDICES

APPENDIX 1: Sample TRA Customs Assycuda++ Data

CONT_NUMBER	BL Number	COUNTRY	CFA NAME	REGN Date	Release Date
AMCU4600710	CNCL110202	CD	Bollore Africa Logistics Tanzania L	20140313	20140314
AMFU3197366	KR2592416	CD	Oceanair Freight Ltd	20140127	20140130
AMFU4242109	CNCL110962	ZM	SPEDAG INTERFREIGHT TANZANIA LIMITE	20140310	20140313
AMFU8595491	MSCUMJ572207	CD	Oceanair Freight Ltd	20140120	20140122
AMFU8623905	MSCUDR149610	CD	Oceanair Freight Ltd	20140120	20140122
AMFU8799999	NBDAR4700728	ZM	Efficient Freighters (T) Ltd	20140217	20140219
AMFU8811590	MSCUI0885989	CD	Vinmart Limited	20140314	20140319
AMFU1421060	EPIRINDMUM157316	ZM	CONTINENTAL RELIABLE CLEARING(T) CO	20140304	20140305
AMFU3123701	MSCUK8450286	RW	Freight World Ltd	20140122	20140123
AMFU3142492	BGV0140582	BI	Bollore Africa Logistics Tanzania L	20140127	20140129
AMFU3204737	WECC1330DAR1648	BI	Bollore Africa Logistics Tanzania L	20140102	20140104
AMFU5002801	WUCJ000367	ZM	Quality Business Consultants (T) Lt	20140220	20140221
AMFU5025685	EPIRINDMUM156921	CD	CONTINENTAL RELIABLE CLEARING(T) CO	20140128	20140128
AMFU8451405	752986586	CD	CONTINENTAL RELIABLE CLEARING(T) CO	20140211	20140213
AMFU8464721	710527990	CD	QUINCHER FREIGHT FORWARDERS CO. LTD	20140211	20140213
AMFU8532430	MSCUI0903113	CD	Cusna Investment Co. Ltd	20140310	20140310
AMFU8539857	951336345	RW	Jaguar Carriers Junior S. A. R. L.	20140211	20140211
AMFU8630801	MSCUI3958353	CD	B & M Freight Forwarders Co. Ltd.	20140206	20140211

AMFU8743979	QSTZ4855349	RW	Great Lakes Freight Ltd	20140128	20140131
AMFU8793429	1.49303E+11	ZM	Great Lakes Freight Ltd	20140118	20140121
AMFU8823061	5.403E+11	RW	Bollore Africa Logistics Tanzania L	20140106	20140108
AMFU8843026	MSCUI0724014	ZM	B & M Freight Forwarders Co. Ltd.	20140219	20140219
AMFU8881366	IN7254760	CD	Great Lakes Freight Ltd	20140102	20140107
AMZU4861870	EPIRCHNSHN185117	ZM	DOW ELEF INTERNATIONAL TANZANIA LTD	20140325	20140327
APMU8045910	752936955	ZM	Oceanair Freight Ltd	20140125	20140128
APMU2821071	867503342	ZM	SIM LOGISTICS (T) LTD	20140322	20140324
APMU2955363	867140915	MW	Manchinchi Marine Movers Ltd	20140320	20140322
APMU29957617	753769262	ZM	Quality Business Consultants (T) Lt	20140329	20140331
APMU8057021	867439873	CD	Freight World Ltd	20140312	20140314
APMU8063615	867375891	ZM	NETWORK CONSUL LOGISTICS COMPANY	20140312	20140313
ARDU2004886	AN300579	RW	Juni Trust Freight Ltd	20140218	20140218
BAXU2594310	BAXPDY003084	CD	Koru Freight Ltd	20140319	20140321
BAXU2613473	BAXPDY003084	CD	Koru Freight Ltd	20140319	20140321
BAXU2620451	BAXPDY003084	CD	Koru Freight Ltd	20140319	20140321
BAXU2622686	BAXPDY003084	CD	Koru Freight Ltd	20140319	20140321
BBXU6030586	WECC1495DAR1005	CG	SPEDAG INTERFREIGHT TANZANIA LIMITE	20140304	20140307
BHCU3004596	ELINJEADES130414	CG	OVERLAND CARRIERS & FORWARDERS (T)	20140123	20140127
BHCU3109051	BGV0141444B	RW	Bollore Africa Logistics Tanzania L	20140321	20140324
BHCU3176717	HJSCTSEL30968700	CD	Manchinchi Marine Movers Ltd	20140325	20140326
BHCU4233220	EPIRINDMUM156973	CD	CONTINENTAL RELIABLE CLEARING(T) CO	20140203	20140204
BHCU4703900	HKA1263037	BI	Bollore Africa Logistics Tanzania L	20140120	20140123
BHCU4954166	DRUN001301	CD	Vigu Trading Co. Ltd	20140324	20140324
BIJU2941734	BSL/BND/DAR/9219	ZM	KUEHNE+NAGEL LIMITED	20140116	20140121
BLJU2942392	ELINJEADES130511	ZM	OVERLAND CARRIERS & FORWARDERS (T)	20140213	20140214

BMOU2040600	1.203E+11	CG	X-PRESS MARITIME AGENCY CO. LTD	20140121	20140122
BMOU2571607	KHIDAR140000002	RW	Basic Intraregion Ltd	20140123	20140124
BMOU2592298	SHADAR140000015	ZM	Oceanair Freight Ltd	20140208	20140211
BMOU4379888	NBDAR4116054	ZM	Efficient Freighters (T) Ltd	20140325	20140327
BMOU4629966	1.433E+11	ZM	Oceanair Freight Ltd	20140218	20140222
BMOU4825866	3.004E+11	ZM	Oceanair Freight Ltd	20140213	20140214
BMOU5394172	142452326071	ZM	Efficient Freighters (T) Ltd	20140322	20140326
BMOU2047992	IN7256206	ZM	A & HIS D CO LTD	20140129	20140131
BMOU2053064	IN8255723	ZM	EUROTZ LTD	20140324	20140325
BMOU2063870	IN1987511	BI	Cusna Investment Co. Ltd	20140124	20140127
BMOU2166440	IN1986228	ZM	Freight World Ltd	20140110	20140115
BMOU2175550	DGCI000507	CD	Great Lakes Freight Ltd	20140106	20140109
BMOU2248488	1.024E+11	RW	A & HIS D CO LTD	20140224	20140225
BMOU2315797	752962962	ZM	Great Lakes Freight Ltd	20140208	20140211
BMOU2369638	867162265	CD	SAMI AGENCIES LTD	20140203	20140205
BMOU2463480	752904172	BI	Cusna Investment Co. Ltd	20140203	20140205
BMOU2469133	752911743	CD	CNF Tanzania Ltd	20140127	20140128
BMOU2552274	PTJDAR14S5038	RW	Jaguar Carriers Junior S. A. R. L.	20140211	20140212
BMOU2556710	PLYDAR1320749	RW	Panache Limited	20140120	20140122
BMOU2557574	BTUDAR140000002	ZM	COSMOS HAULAGE COMPANY LIMITED	20140218	20140221
BMOU2560259	TFZHADARP1460123	ZM	MPEPA TRADERS CO. LTD	20140311	20140311
BMOU2562462	BMTDAR130000073	CD	Bollore Africa Logistics Tanzania L	20140107	20140110
BMOU2574355	PLUDAR140000002	BI	Jet Freight Ltd	20140324	20140326
BMOU2576419	7QDLUNM1401502	ZM	Freight World Ltd	20140305	20140310
BMOU2579737	EQDDARM1311201	CD	Triple "D" Ltd	20140102	20140106
BMOU2579737	EQDDARM1311202	CD	Triple "D" Ltd	20140104	20140109

BMOU2590886	YQDDARM1312203	CD	NKIRA TRADING INVESTMENT LTD	20140123	20140124
BMOU2593020	SHADAR140000067	CD	Triple "D" Ltd	20140305	20140308
BMOU2599604	JEADAR140000003	ZM	CONTINENTAL RELIABLE CLEARING(T) CO	20140124	20140127
BMOU2868386	1.064E+11	CD	B & M Freight Forwarders Co. Ltd.	20140304	20140305
BMOU2946724	HJSCTATY36702500	ZM	Cusna Investment Co. Ltd	20140317	20140321
BMOU3017591	GTG0178682	RW	Panache Limited	20140217	20140218
BMOU4084737	ZNSADARP1454507	CD	Triple "D" Ltd	20140314	20140318
BMOU4129071	AETZ0204742	BI	Switch Trade Ltd	20140327	20140331
BMOU4144815	AETZ0203948	RW	Great Lakes Freight Ltd	20140304	20140306
BMOU4147650	AETZ0204420	RW	Great Lakes Freight Ltd	20140315	20140318
BMOU4171045	867263283	ZM	Freight World Ltd	20140204	20140206
BMOU4176480	562113771	CD	QUINCHER FREIGHT FORWARDERS CO. LTD	20140219	20140220
BMOU4369010	ZNSADARP1453094	RW	Jaguar Carriers Junior S. A. R. L.	20140130	20140131
BMOU4374931	SHKULUN1300032	ZM	ARISTEPRO INVESTMENT COMPANY LTD	20140124	20140127
BMOU4375666	KJAIDARP1312612	RW	Jaguar Carriers Junior S. A. R. L.	20140120	20140122
BMOU4379234	CCUDAR140000008	RW	BALEX INTERNATIONAL LTD	20140211	20140214
BMOU4381294	NBDAR3691766	RW	B & M Freight Forwarders Co. Ltd.	20140128	20140128
BMOU4383091	ZNSADARP1453494	RW	Jaguar Carriers Junior S. A. R. L.	20140324	20140326
BMOU4384082	NBDAR4323251	ZM	Koru Freight Ltd	20140312	20140314
BMOU4469641	1.4338E+11	ZM	Bollore Africa Logistics Tanzania L	20140203	20140204
BMOU4639373	NBDAR4700066	BI	Air Sea C & F. Ltd	20140219	20140222
BMOU4665984	40300291298	ZM	Cusna Investment Co. Ltd	20140106	20140110
BMOU4863207	1.494E+11	ZM	Transroad (T) Ltd	20140218	20140221
BMOU4944464	COSU6077429180	CD	B & M Freight Forwarders Co. Ltd.	20140312	20140313
BMOU4967449	CHKUDAR1400093	ZM	Great Lakes Freight Ltd	20140220	20140221
BMOU4967541	DNSADARP1480422	RW	FAST FORWARD INTERNATIONAL (T) LTD	20140313	20140317

BMOU4969694	NBDAR3334949	CD	Vigu Trading Co. Ltd	20140120	20140121
BMOU5012644	1.014E+11	CD	Cusna Investment Co. Ltd	20140219	20140221
BMOU5061700	COSU6091624370	ZM	STAR VISION INTERNATIONAL LTD	20140127	20140129
BMOU5222321	AETZ0204558	RW	Great Lakes Freight Ltd	20140317	20140318
BMOU5239670	COSU6091658690	CG	Dar-Cost Enterprises Ltd	20140305	20140306
BOMU5393279	1.42452E+11	ZM	Efficient Freighters (T) Ltd	20140322	20140326
BSIU2045892	752904045	RW	CREST CLEARING & FORWARDING LTD	20140108	20140110
BSIU2231156	EPIRINDMUM156970	CG	X-PRESS MARITIME AGENCY CO. LTD	20140310	20140310
BSIU2248729	EPIRINDMUM157180	CG	X-PRESS MARITIME AGENCY CO. LTD	20140224	20140225
BSIU2316079	EPIRINDMUM157127	BI	X-PRESS MARITIME AGENCY CO. LTD	20140220	20140221
BSIU2392037	AETZ0203434	BI	SODETRA(SPRL)LTD	20140217	20140219
BSIU2452922	1.0045E+11	RW	X-PRESS MARITIME AGENCY CO. LTD	20140221	20140221
BSIU9085773	IN7257841	CD	Oceanair Freight Ltd	20140314	20140318
BSIU9120160	EPIRCHNTAO147676	CD	Oceanair Freight Ltd	20140322	20140327
BSIU2063978	DGGA000126	ZM	KUEHNE+NAGEL LIMITED	20140228	20140228
BSIU2098655	EPIRSGSNGS113113	CD	NKIRA TRADING INVESTMENT LTD	20140128	20140131
BSIU2106880	GEN0553535	ZM	Great Lakes Freight Ltd	20140315	20140317
BSIU2125914	WECC1330DAR1686	RW	Bollore Africa Logistics Tanzania L	20140124	20140128
BSIU2127218	WECC14VADAR0053	MW	Bollore Africa Logistics Tanzania L	20140221	20140221
BSIU2195450	EPIRCHNSHN184959	ZM	Great Lakes Freight Ltd	20140322	20140325
BSIU2197283	WECC1395DAR1082	RW	SPEDAG INTERFREIGHT TANZANIA LIMITE	20140121	20140124
BSIU2201866	EPIRCHNSHN185141	ZM	CONTINENTAL RELIABLE CLEARING(T) CO	20140324	20140324
BSIU2211709	EPIRAEESAD135905	ZM	Freight World Ltd	20140207	20140211
BSIU2228893	EPIRSGSNGS112862	CD	NKIRA TRADING INVESTMENT LTD	20140127	20140131
BSIU2229694	EPIRSGSNGS113226	CD	NKIRA TRADING INVESTMENT LTD	20140327	20140331
BSIU2316037	EPIRCHNSHN184732	RW	Panache Limited	20140214	20140214

BSIU2316464	EPIRSGSNGS113266	CD	NKIRA TRADING INVESTMENT LTD	20140310	20140310
BSIU2586393	COSU6084561080	RW	SPEDAG INTERFREIGHT TANZANIA LIMITE	20140310	20140311
BSIU2646717	MUNDAR130000071	RW	Freight World Ltd	20140118	20140120
BSIU9003435	1.014E+11	RW	Cusna Investment Co. Ltd	20140203	20140205
BSIU9013599	603100741	ZM	Great Lakes Freight Ltd	20140310	20140313
BSIU9016026	753513759	RW	Great Lakes Freight Ltd	20140224	20140226
BSIU9017589	867479192	RW	Jaguar Carriers Junior S. A. R. L.	20140321	20140325
BSIU9019832	603091168	BI	Bollore Africa Logistics Tanzania L	20140325	20140326
BSIU9021193	752978468	CD	Freight World Ltd	20140217	20140218
BSIU9023215	IN1986620	ZM	Great Lakes Freight Ltd	20140117	20140117
BSIU9060944	WECC1430DAR1008	CD	Triple "D" Ltd	20140219	20140221
BSIU9063007	WECC1430DAR1014	ZM	Cusna Investment Co. Ltd	20140219	20140219
BSIU9069406	WECC1401DAR1009	CD	Uplands Freight Forwarders Ltd	20140218	20140220
BSIU9073350	WECC1430DAR1020	CD	Cusna Investment Co. Ltd	20140225	20140227
BSIU9076920	WECC1430DAR1031	CD	Cusna Investment Co. Ltd	20140225	20140226
BSIU9082413	WECC1430DAR1009	CG	Jaguar Carriers Junior S. A. R. L.	20140219	20140219
BSIU9083390	WECC1441DAR1001	CD	Triple "D" Ltd	20140227	20140227
BSIU9086424	CNCL405147	ZM	Rukwi Holdings Co. Ltd	20140217	20140217
BSIU9120025	EPIRCHEASL100653	ZM	CONTINENTAL RELIABLE CLEARING(T) CO	20140217	20140218
BSIU9120597	EPIRINDMAA108459	BI	Cusna Investment Co. Ltd	20140120	20140124
BSIU9121633	EPIRCHNXNG129001	CD	CONTINENTAL RELIABLE CLEARING(T) CO	20140324	20140325
BSIU9132941	HKK0143639	CD	NKIRA TRADING INVESTMENT LTD	20140214	20140218
BSIU9134081	1.40301E+11	RW	SAMI AGENCIES LTD	20140118	20140121
BSIU9194183	AETZ0204650	ZM	Great Lakes Freight Ltd	20140317	20140318
BSIU9203325	AWTZ0864583	RW	Freight World Ltd	20140117	20140117
BSIU9356469	COSU6083280680	BI	SKY PACKAGING (T) LTD	20140123	20140127

BSIU9391330	TR2309868	ZM	Great Lakes Freight Ltd	20140301	20140303
BSIU9392240	IN7255555	RW	Great Lakes Freight Ltd	20140113	20140115
BSIU9498191	1.404E+11	ZM	Transroad (T) Ltd	20140218	20140221
BSIU9504859	1.013E+11	RW	Cusna Investment Co. Ltd	20140203	20140205
BSIU9547629	RTM9027529	RW	Great Lakes Freight Ltd	20140324	20140326
CAIU2136997	BSL/BND/DAR/9103	UG	Oceanair Freight Ltd	20140121	20140122
CAIU2136997	BSL/BND/DAR/9103	UG	Oceanair Freight Ltd	20140121	20140123
CAIU2400712	562002027	CD	Vinmart Limited	20140203	20140205
CAIU2774796	MSCUXK854755	CG	OVERLAND CARRIERS & FORWARDERS (T)	20140219	20140220
CAIU2852883	MSCUQN519247	CN	OVERLAND CARRIERS & FORWARDERS (T)	20140311	20140313
CAIU2935083	MSCUN4992490	RW	CREST CLEARING & FORWARDING LTD	20140217	20140218
CAIU3189008	MSCUK8468205	CG	X-PRESS MARITIME AGENCY CO. LTD	20140201	20140203
CAIU3315699	NBDAR3185516	BI	CREST CLEARING & FORWARDING LTD	20140121	20140124
CAIU8071390	NBDAR4323033	CD	Oceanair Freight Ltd	20140210	20140213
CAIU8081417	DBFC600209	CD	Oceanair Freight Ltd	20140125	20140127
CAIU8316403	752909107	MW	CREST CLEARING & FORWARDING LTD	20140125	20140128
CAIU8591745	NBDAR4531013	ZM	Efficient Freighters (T) Ltd	20140204	20140208
CAIU8661360	WECC1369DAR0126	CD	Oceanair Freight Ltd	20140120	20140122
CAIU8937951	MSCUI0740259	CD	Oceanair Freight Ltd	20140219	20140220
CAIU9015847	NBDAR4531007	ZM	Oceanair Freight Ltd	20140207	20140210
CAIU9061591	AE1381919	ZM	Efficient Freighters (T) Ltd	20140303	20140305
CAIU2016836	MSCUI3981165	CD	Vigu Trading Co. Ltd	20140121	20140122
CAIU2108721	MY1469004	ZM	First Choice C&f	20140204	20140205
CAIU2187696	NBDAR4700063	BI	TACAS LTD	20140210	20140215
CAIU2195705	EPIRSGSNGS113154	CD	Koru Freight Ltd	20140214	20140214
CAIU2342642	IN1993524	ZM	Cusna Investment Co. Ltd	20140130	20140130

CAIU2352785	IQDZNZM1310475	UG	CYCLE WORLD TRADING CO LTD	20140307	20140310
CAIU2390430	603066223	RW	Basic Intraregion Ltd	20140128	20140129
CAIU2468672	561925874	RW	SAMI AGENCIES LTD	20140116	20140120
CAIU2474844	951389463	ZM	NETWORK CONSUL LOGISTICS COMPANY	20140319	20140320
CAIU2478372	951284821	RW	FAST FORWARD INTERNATIONAL (T) LTD	20140122	20140124
CAIU2491775	IN7257525	RW	A & HIS D CO LTD	20140224	20140224
CAIU2495810	DHK0100469B	ZM	Great Lakes Freight Ltd	20140324	20140325
CAIU2505082	MSF107006	CD	NKIRA TRADING INVESTMENT LTD	20140211	20140213
CAIU2517822	753515491	CD	Bollore Africa Logistics Tanzania L	20140310	20140310
CAIU2531878	HJSCTSXN3S094300	RW	Bollore Africa Logistics Tanzania L	20140318	20140319
CAIU2643625	HJSCHKG3G1091500	ZM	NKIRA TRADING INVESTMENT LTD	20140201	20140204
CAIU2753480	MSCUXJ133896	CD	Manchinchi Marine Movers Ltd	20140331	20140331
CAIU2755271	HJSCTATY36240200	ZM	B & M Freight Forwarders Co. Ltd.	20140120	20140124
CAIU2783669	MSCURH494636	CD	CONTINENTAL RELIABLE CLEARING(T) CO	20140315	20140315
CAIU2831670	DR322680	BI	Rukwi Holdings Co. Ltd	20140211	20140213
CAIU2832362	DR321850	RW	SAMI AGENCIES LTD	20140123	20140124
CAIU2841826	DR403154	BI	SODETRA(SPRL)LTD	20140328	20140331
CAIU2851906	MSCUI6905146	RW	BERO COMPANY LTD	20140304	20140306
CAIU2896536	MSCUK8487460	RW	Cusna Investment Co. Ltd	20140225	20140225
CAIU2901627	MSCUI3986024	CD	Vigu Trading Co. Ltd	20140122	20140127
CAIU2921958	COSU6084560000	RW	DOW ELEF INTERNATIONAL TANZANIA LTD	20140129	20140130
CAIU3008007	MSCUAV939507	RW	Bollore Africa Logistics Tanzania L	20140304	20140306
CAIU3032446	561929513	ZM	SIM LOGISTICS (T) LTD	20140127	20140131
CAIU3050516	MSCUCA301575	RW	Great Lakes Freight Ltd	20140303	20140304

Appendix 2: Sample TPA Terminal Operations Data

CONT NUMBER	BLNo	DischargeDate	Delivery Date	Country	PaymentDate	Invoice Date	TruckINDate	TruckOUTDate
TGHU8161652	JD456417	3/5/14 12:07	3/5/14 16:49	RW	3/5/14 16:43	2/28/14 15:16	3/5/14 11:53	3/5/14 19:33
LMCU4600158	DR321678	1/24/14 3:03	1/24/14 14:12	RW	1/25/14 18:50	1/22/14 12:38	1/24/14 11:09	1/24/14 15:42
TTNU5582176	LEYE87DES03	2/21/14 15:58	2/22/14 14:15	ZM	2/22/14 14:16	2/5/14 16:18	2/21/14 18:57	2/22/14 21:35
SITU4995723	LEYE87DES03	2/21/14 15:58	2/22/14 15:15	ZM	2/22/14 14:16	2/5/14 16:18	2/21/14 17:37	2/22/14 21:36
MAEU6157545	LEYE87DES03	2/21/14 15:58	2/22/14 14:16	ZM	2/22/14 14:16	2/5/14 16:18	2/21/14 17:32	2/22/14 21:36
MAEU6157545	LEYE87DES03	2/21/14 15:58	2/22/14 14:16	ZM	2/22/14 14:15	2/5/14 16:18	2/21/14 17:32	2/22/14 21:36
TTNU5582176	LEYE87DES03	2/21/14 15:58	2/22/14 14:15	ZM	2/22/14 14:16	2/11/14 12:33	2/21/14 18:57	2/22/14 21:35
SITU4995723	LEYE87DES03	2/21/14 15:58	2/22/14 15:15	ZM	2/22/14 14:16	2/11/14 12:33	2/21/14 17:37	2/22/14 21:36
MAEU6157545	LEYE87DES03	2/21/14 15:58	2/22/14 14:16	ZM	2/22/14 14:16	2/11/14 12:33	2/21/14 17:32	2/22/14 21:36
MAEU6157545	LEYE87DES03	2/21/14 15:58	2/22/14 14:16	ZM	2/22/14 14:15	2/11/14 12:33	2/21/14 17:32	2/22/14 21:36
TTNU5582176	LEYE87DES03	2/21/14 15:58	2/22/14 14:15	ZM	2/22/14 14:16	2/19/14 13:11	2/21/14 18:57	2/22/14 21:35
SITU4995723	LEYE87DES03	2/21/14 15:58	2/22/14 15:15	ZM	2/22/14 14:16	2/19/14 13:11	2/21/14 17:37	2/22/14 21:36
MAEU6157545	LEYE87DES03	2/21/14 15:58	2/22/14 14:16	ZM	2/22/14 14:16	2/19/14 13:11	2/21/14 17:32	2/22/14 21:36
MAEU6157545	LEYE87DES03	2/21/14 15:58	2/22/14 14:16	ZM	2/22/14 14:15	2/19/14 13:11	2/21/14 17:32	2/22/14 21:36
TTNU5582176	LEYE87DES03	2/21/14 15:58	2/22/14 14:15	ZM	2/22/14 14:16	2/19/14 13:24	2/21/14 18:57	2/22/14 21:35
SITU4995723	LEYE87DES03	2/21/14 15:58	2/22/14 15:15	ZM	2/22/14 14:16	2/19/14 13:24	2/21/14 17:37	2/22/14 21:36
MAEU6157545	LEYE87DES03	2/21/14 15:58	2/22/14 14:16	ZM	2/22/14 14:16	2/19/14 13:24	2/21/14 17:32	2/22/14 21:36
MAEU6157545	LEYE87DES03	2/21/14 15:58	2/22/14 14:16	ZM	2/22/14 14:15	2/19/14 13:24	2/21/14 17:32	2/22/14 21:36
TTNU5582176	LEYE87DES03	2/21/14 15:58	2/22/14 14:15	ZM	2/22/14 14:16	2/19/14 13:54	2/21/14 18:57	2/22/14 21:35
SITU4995723	LEYE87DES03	2/21/14 15:58	2/22/14 15:15	ZM	2/22/14 14:16	2/19/14 13:54	2/21/14 17:37	2/22/14 21:36
MAEU6157545	LEYE87DES03	2/21/14 15:58	2/22/14 14:16	ZM	2/22/14 14:16	2/19/14 13:54	2/21/14 17:32	2/22/14 21:36
MAEU6157545	LEYE87DES03	2/21/14 15:58	2/22/14 14:16	ZM	2/22/14 14:15	2/19/14 13:54	2/21/14 17:32	2/22/14 21:36
LMCU1062470	KA300900	3/3/14 12:30	3/4/14 14:54	CD	2/28/14 20:29	2/25/14 16:02	3/4/14 11:54	3/4/14 16:49
TTNU5582176	LEYE87DES03	2/21/14 15:58	2/22/14 14:15	ZM	2/22/14 14:16	12/23/13 15:52	2/21/14 18:57	2/22/14 21:35
SITU4995723	LEYE87DES03	2/21/14 15:58	2/22/14 15:15	ZM	2/22/14 14:16	12/23/13 15:52	2/21/14 17:37	2/22/14 21:36
MAEU6157545	LEYE87DES03	2/21/14 15:58	2/22/14 14:16	ZM	2/22/14 14:16	12/23/13 15:52	2/21/14 17:32	2/22/14 21:36
MAEU6157545	LEYE87DES03	2/21/14 15:58	2/22/14 14:16	ZM	2/22/14 14:15	12/23/13 15:52	2/21/14 17:32	2/22/14 21:36
LMCU9134350	JD456417	3/5/14 12:07	3/6/14 16:00	RW	3/5/14 16:43	2/28/14 15:16	3/5/14 11:53	3/6/14 18:51
PCIU2059522	PTJDAR14B8030	3/13/14 4:37	3/14/14 16:15	RW	3/14/14 18:01	3/13/14 16:37	3/14/14 12:26	3/14/14 23:47
LMCU1217551	DR321678	1/24/14 3:03	1/25/14 19:04	RW	1/25/14 18:50	1/22/14 12:38	1/25/14 11:28	1/25/14 20:13
TTNU5582176	LEYE87DES03	2/21/14 15:58	2/22/14 14:15	ZM	2/22/14 14:16	2/13/14 14:30	2/21/14 18:57	2/22/14 21:35

MAEU6157545 LEYER/DES03 221/14 15:58 222/14 14:16 ZM 222/14 14:16 2/13/14 14:30 221/14 17:32 222/14 21:36 MRKU7348408 562608050 326/14 1541 327/14 19:07 CD 327/14 13:43 324/14 15:54 327/14 9:35 327/14 22:01 MRKU7348408 562608050 326/14 1541 327/14 19:07 CD 327/14 13:43 324/14 15:54 327/14 9:35 327/14 22:01 MAEU8400124 562002095 24/314 3:56 21/514 14:48 W 21/514 13:47 21/514 13:23 25/14 12:18 21/514 17:51 CLHU3772925 IQDDARM1401510 31/214 1:09 31/414 16:16 CD 31/414 16:05 31/214 15:02 31/314 13:24 31/414 17:18 CHU3772925 IQDDARM1401510 31/214 1:09 31/414 17:58 RW 21/514 13:48 31/414 13:30 31/914 11:07 31/91/4 19:18 MRKU659808 325/14 18:23 327/14 16:15 CD 327/14 13:42 324/14 15:54 327/14 9:32 327/14 17:18 MRKU6595208 562608050 325/14 18:23 327/14 15:54 CD 327/14 13:42 324/14 15:54 327/14 9:32 327/14 17:59 MRKU46595208 562608050 325/14 18:23 327/14 15:50 CD 327/14 13:43 324/14 15:54 327/14 9:34 327/14 9:18 MRKU46595208 562608050 325/14 18:23 327/14 15:50 CD 327/14 13:43 324/14 15:54 327/14 9:34 327/14 9:18 MRKU405972 951197897 130/14 17:36 21/14 11:10 B1 21/14 11:02 130/14 15:54 327/14 9:34 327/14 17:50 MRKU405972 951197897 130/14 17:36 21/14 11:10 B1 21/14 11:02 130/14 17:33 31/41 12:34	SITU4995723	LEYE87DES03	2/21/14 15:58	2/22/14 15:15	ZM	2/22/14 14:16	2/13/14 14:30	2/21/14 17:37	2/22/14 21:36
MRKU7348408	MAEU6157545	LEYE87DES03	2/21/14 15:58	2/22/14 14:16	ZM	2/22/14 14:16	2/13/14 14:30	2/21/14 17:32	2/22/14 21:36
CUILI08812	MAEU6157545	LEYE87DES03	2/21/14 15:58	2/22/14 14:16	ZM	2/22/14 14:15	2/13/14 14:30	2/21/14 17:32	2/22/14 21:36
MABUSH00124 562020295 2/13/14/3:56 2/15/14/14/14 RW 2/15/14/13:47 2/15/14/13:36 2/15/14/12:18 2/15/14/15:15 CLHJ3773255 IQDDARMH401510 3/12/14/1:09 3/14/14/16:16 CD 3/14/14/16:05 3/12/14/15:02 3/13/14/13:24 3/14/14/17:13 PTIDAR1488074 3/17/14/16:05 3/19/14/17:58 RW 3/19/14/16:05 3/12/14/15:05 3/12/1	MRKU7348408	562608050	3/26/14 15:41	3/27/14 19:07	CD	3/27/14 13:43	3/24/14 15:54	3/27/14 9:35	3/27/14 20:21
CLHU3772925 IQDDARMI401510 3/12/14 1:09 3/14/14 16:16 CD 3/14/14 16:05 3/12/14 15:02 3/13/14 13:24 3/14/14 17:13 PCIU1230501 PTIDARI4B8074 3/17/14 1:08 3/19/14 17:58 RW 3/19/14 10:48 3/18/14 13:30 3/19/14 11:07 3/19/14 17:13 SPATIAL STATES SECONDOS 562608050 3/25/14 18:23 3/27/14 16:31 CD 3/27/14 13:42 3/24/14 15:54 3/27/14 9:34 3/27/14 17:49 MRKU6595208 562608050 3/25/14 18:23 3/27/14 17:51 CD 3/27/14 13:43 3/24/14 15:54 3/27/14 9:34 3/27/14 17:49 MRKU4372933 562608050 3/25/14 18:23 3/27/14 13:48 CD 3/27/14 13:43 3/24/14 15:54 3/27/14 9:34 3/27/14 17:50 MRKU1312933 562608050 3/25/14 6:17 3/27/14 13:48 CD 3/27/14 13:43 3/24/14 15:54 3/27/14 9:34 3/27/14 17:50 MRKU1312933 562608050 3/25/14 6:17 3/27/14 13:48 CD 3/27/14 13:43 3/24/14 15:54 3/27/14 9:34 3/27/14 17:50 MRKU409372 951197897 1/30/14 17:36 2/1/14 11:10 BI 2/1/14 11:00 1/30/14 19:13 1/31/14 16:46 2/1/14 13:10 DFSU6365186 PTIDARI4B8048 3/11/14 4:27 3/14/14 16:17 RW 3/14/14 17:58 3/13/14 7:53 3/14/14 12:34 3/14/14 23:49 PCIU8897746 PTIDARI4B8043 3/11/14 4:28 3/14/14 18:14 RW 3/14/14 17:59 3/12/14 17:37 3/14/14 12:34 3/14/14 23:49 PCIU8434913 PTIDARI4B8048 3/11/14 4:28 3/14/14 18:14 RW 3/14/14 17:59 3/12/14 17:37 3/14/14 12:34 3/14/14 23:41 DFSU6365186 PTIDARI4B8048 3/11/14 4:28 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 15:00 3/14/14 12:33 3/14/14 23:41 DFSU6365186 PTIDARI4B8048 3/11/14 4:27 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 15:00 3/14/14 12:33 3/14/14 23:41 DFSU6365186 PTIDARI4B8048 3/11/14 4:27 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 15:00 3/14/14 12:33 3/14/14 23:41 DFSU6365186 PTIDARI4B8048 3/11/14 4:27 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:34 3/14/14 23:41 DFSU6365186 PTIDARI4B8048 3/11/14 4:27 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:	PCIU1108812	ZWCKDARP1455500A	2/4/14 21:39	2/5/14 20:35	RW	2/5/14 18:34	2/4/14 13:23	2/5/14 15:27	2/5/14 22:01
PCIU1230501 PCIU123050 PC	MAEU8400124	562020295	2/13/14 3:56	2/15/14 14:44	RW	2/15/14 13:47	2/15/14 8:36	2/15/14 12:18	2/15/14 17:51
MRKU6578073 562608050 3/25/14 18:23 3/27/14 16:31 CD 3/27/14 13:42 3/24/14 15:54 3/27/14 9:32 3/27/14 17:49 MRKU6595208 562608050 3/25/14 18:23 3/27/14 17:51 CD 3/27/14 13:43 3/24/14 15:54 3/27/14 9:34 3/27/14 20:21 MSKU3279574 562608050 3/25/14 8:23 3/27/14 13:48 CD 3/27/14 13:43 3/24/14 15:54 3/27/14 9:34 3/27/14 17:49 MSKU3412933 562608050 3/25/14 7:10 3/27/14 13:48 CD 3/27/14 13:43 3/24/14 15:54 3/27/14 9:34 3/27/14 17:50 MRKU4312933 562608050 3/25/14 7:10 3/27/14 13:48 CD 3/27/14 13:43 3/24/14 15:54 3/27/14 19:36 3/27/14 17:50 MRKU409372 951197897 1/30/14 17:36 3/27/14 11:40 3/27/14 18:41 RW 3/27/14 17:50 3/25/14 11:58 3/27/14 10:32 3/27/14 13:40 3/27/14 17:30 3/27/14 17:30 3/27/14 17:30 3/27/14 17:30 3/27/14 17:30 3/27/14 17:30 3/27/14 17:30 3/27/14 17:30 3/27/14 17:30 3/27/14 17:30 3/27/14 17:30	CLHU3772925	IQDDARM1401510	3/12/14 1:09	3/14/14 16:16	CD	3/14/14 16:05	3/12/14 15:02	3/13/14 13:24	3/14/14 17:13
MRKU6595208 562608050 3/25/14 18:23 3/27/14 17:51 CD 3/27/14 13:43 3/24/14 15:54 3/27/14 9:34 3/27/14 9:24 MSKU3279574 562608050 3/25/14 18:23 3/27/14 15:50 CD 3/27/14 13:43 3/24/14 15:54 3/27/14 9:34 3/27/14 17:48 MSKU4312933 562608050 3/25/14 6:17 3/27/14 13:48 3/24/14 13:43 3/24/14 15:54 3/27/14 9:36 3/27/14 17:48 MRKU7165238 867375590 3/25/14 6:17 3/27/14 21:14 RW 3/27/14 21:07 3/25/14 11:58 3/27/14 10:32 3/27/14 21:33 MRKU4409372 951197897 1/30/14 17:36 2/1/14 11:10 BI 2/1/14 11:02 1/30/14 19:13 1/31/14 16:46 2/1/14 11:10 BI 2/1/14 11:02 1/30/14 19:13 1/31/14 16:46 2/1/14 11:10 BI 2/1/14 11:02 1/30/14 19:13 1/31/14 16:46 2/1/14 11:10 BI 2/1/14 11:02 1/30/14 19:13 1/31/14 16:46 2/1/14 11:10 BI 2/1/14 11:02 1/30/14 19:13 1/31/14 16:46 2/1/14 13:10 BI 2/1/14 11:02 1/30/14 19:13 1/31/14 16:33 <td>PCIU1230501</td> <td>PTJDAR14B8074</td> <td>3/17/14 1:08</td> <td>3/19/14 17:58</td> <td>RW</td> <td>3/19/14 10:48</td> <td>3/18/14 13:30</td> <td>3/19/14 11:07</td> <td>3/19/14 19:18</td>	PCIU1230501	PTJDAR14B8074	3/17/14 1:08	3/19/14 17:58	RW	3/19/14 10:48	3/18/14 13:30	3/19/14 11:07	3/19/14 19:18
MSKU3279574 562608050 3/25/14 18:23 3/27/14 15:50 CD 3/27/14 13:43 3/24/14 15:54 3/27/14 9:34 3/27/14 17:48 MSKU312933 562608050 3/25/14 7:10 3/27/14 21:14 RW 3/27/14 13:43 3/24/14 15:54 3/27/14 10:32 3/27/14 17:50 MRKU7409372 951197897 1/30/14 17:36 2/1/14 11:10 BI 2/1/14 11:02 1/30/14 19:13 1/31/14 16:46 2/1/14 11:31 DFSU6365186 PTIDAR14B8048 3/11/14 1:40 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 7:53 3/14/14 12:33 3/14/14 12:33 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:33 3/14/14 12:34 3/14/14 12:33 3/14/14 12:34 3/14/14 12:33 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34 3/14/14 12:34	MRKU6578073	562608050	3/25/14 18:23	3/27/14 16:31	CD	3/27/14 13:42	3/24/14 15:54	3/27/14 9:32	3/27/14 17:49
MSKU4312933 562608050 3/25/14 7:10 3/27/14 13:48 CD 3/27/14 13:43 3/24/14 15:54 3/27/14 9:36 3/27/14 17:50 MRKU7165238 867375590 3/25/14 6:17 3/27/14 21:14 RW 3/27/14 11:09 3/25/14 11:58 3/27/14 10:32 3/27/14 21:31 MRKU4409372 951197897 1/30/14 17:36 2/1/4 11:10 BI 2/1/14 11:02 1/30/14 19:13 1/31/14 16:46 2/1/14 11:10 DFSU6365186 PTIDAR14B8048 3/11/14 1:40 3/14/14 18:41 RW 3/14/14 17:58 3/13/14 7:53 3/14/14 12:34 2/1/14 11:31 DFSU6365186 PTIDAR14B8048 3/11/14 4:27 3/14/14 16:17 RW 3/14/14 17:58 3/13/14 7:53 3/14/14 23:49 PCIU8287746 PTIDAR14B8043 3/11/14 4:23 3/14/14 18:49 RW 3/14/14 17:59 3/12/14 17:37 3/14/14 12:35 3/14/14 23:41 PCIU8287746 PTIDAR14B8048 3/11/14 4:27 3/14/14 16:17 RW 3/14/14 17:59 3/12/14 17:37 3/14/14 12:33 3/14/14 23:41 PCIU8287746 PTIDAR14B8048 3/11/14 4:27	MRKU6595208	562608050	3/25/14 18:23	3/27/14 17:51	CD	3/27/14 13:43	3/24/14 15:54	3/27/14 9:34	3/27/14 20:21
MRKU7165238 867375590 3/25/14 6:17 3/27/14 21:14 RW 3/27/14 21:07 3/25/14 11:58 3/27/14 10:32 3/27/14 21:33 MRKU409372 951197897 1/30/14 17:36 2/1/14 11:10 BI 2/1/14 11:02 1/30/14 19:13 1/31/14 16:46 2/1/14 13:10 DFSU6365186 PTJDAR14B8048 3/11/14 1:40 3/14/14 16:17 RW 3/14/14 17:58 3/13/14 7:53 3/14/14 12:34 3/14/14 23:41 PCIU8287746 PTJDAR14B8048 3/11/14 4:23 3/14/14 18:48 RW 3/14/14 17:58 3/13/14 7:53 3/14/14 12:34 3/14/14 23:41 PCIU8593812 PTJDAR14B8043 3/11/14 4:38 3/14/14 18:49 RW 3/14/14 17:59 3/12/14 17:37 3/14/14 12:36 3/14/14 23:38 DFSU6365186 PTJDAR14B8048 3/11/14 4:24 3/14/14 18:14 RW 3/14/14 17:59 3/12/14 17:37 3/14/14 12:35 3/14/14 23:43 DFSU6365186 PTJDAR14B8048 3/11/14 4:27 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 11:02 3/14/14 12:33 3/14/14 23:39 DFSU6365186 PTJDAR14B8048	MSKU3279574	562608050	3/25/14 18:23	3/27/14 15:50	CD	3/27/14 13:43	3/24/14 15:54	3/27/14 9:34	3/27/14 17:48
MRKU4409372 951197897 1/30/14 17:36 2/1/14 11:10 BI 2/1/14 11:02 1/30/14 19:13 1/31/14 16:46 2/1/14 13:10 DFSUG365186 PTJDAR14B8048 3/11/14 1:40 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 7:53 3/14/14 12:33 3/14/14 23:41 PCIU8287746 PTJDAR14B8048 3/11/14 4:27 3/14/14 16:17 RW 3/14/14 17:58 3/13/14 7:53 3/14/14 12:34 3/14/14 23:39 PCIU8493812 PTJDAR14B8043 3/11/14 4:38 3/14/14 18:49 RW 3/14/14 17:59 3/12/14 17:37 3/14/14 12:36 3/14/14 23:41 PCIU8593812 PTJDAR14B8043 3/11/14 4:38 3/14/14 18:49 RW 3/14/14 17:59 3/12/14 17:37 3/14/14 12:35 3/14/14 23:41 DFSU6365186 PTJDAR14B8048 3/11/14 1:40 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 11:02 3/14/14 12:33 3/14/14 23:39 DFSU6365186 PTJDAR14B8048 3/11/14 1:40 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 11:02 3/14/14 12:33 3/14/14 12:33 3/14/14 12:33 3/14/14 12:33	MSKU4312933	562608050	3/25/14 7:10	3/27/14 13:48	CD	3/27/14 13:43	3/24/14 15:54	3/27/14 9:36	3/27/14 17:50
DFSU6365186 PTJDAR14B8048 3/11/14 1:40 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 7:53 3/14/14 12:33 3/14/14 23:41 PCIU8287746 PTJDAR14B8048 3/11/14 4:27 3/14/14 16:17 RW 3/14/14 17:58 3/13/14 7:53 3/14/14 12:34 3/14/14 23:39 PCIU8434913 PTJDAR14B8043 3/11/14 5:33 3/14/14 18:48 RW 3/14/14 17:59 3/12/14 17:37 3/14/14 12:36 3/14/14 23:41 PCIU8593812 PTJDAR14B8043 3/11/14 4:38 3/14/14 18:49 RW 3/14/14 17:59 3/12/14 17:37 3/14/14 12:35 3/14/14 23:41 DESU6365186 PTJDAR14B8048 3/11/14 4:40 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 11:02 3/14/14 12:33 3/14/14 23:41 PCIU8287746 PTJDAR14B8048 3/11/14 4:27 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:33 3/14/14 23:39 DFSU6365186 PTJDAR14B8048 3/11/14 4:27 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:33 3/14/14 23:39 DFSU6365186 PTJDAR14	MRKU7165238	867375590	3/25/14 6:17	3/27/14 21:14	RW	3/27/14 21:07	3/25/14 11:58	3/27/14 10:32	3/27/14 21:33
PCIU8287746 PTIDAR14B8048 3/11/14 4:27 3/14/14 16:17 RW 3/14/14 17:58 3/13/14 7:53 3/14/14 12:34 3/14/14 23:39 PCIU8434913 PTIDAR14B8043 3/11/14 5:33 3/14/14 18:48 RW 3/14/14 17:59 3/12/14 17:37 3/14/14 12:36 3/14/14 23:38 PCIU8593812 PTIDAR14B8048 3/11/14 4:38 3/14/14 18:49 RW 3/14/14 17:59 3/12/14 17:37 3/14/14 12:35 3/14/14 23:41 DFSU6365186 PTIDAR14B8048 3/11/14 1:40 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 11:02 3/14/14 12:33 3/14/14 23:41 PCIU8287746 PTIDAR14B8048 3/11/14 1:40 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:33 3/14/14 23:39 PSU6365186 PTIDAR14B8048 3/11/14 1:40 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:33 3/14/14 23:39 PSU6287746 PTIDAR14B8048 3/11/14 4:27 3/14/14 16:17 RW 3/14/14 17:58 3/13/14 16:37 3/14/14 12:33 3/14/14 23:34 PCIU2627432 PTIDAR14B	MRKU4409372	951197897	1/30/14 17:36	2/1/14 11:10	BI	2/1/14 11:02	1/30/14 19:13	1/31/14 16:46	2/1/14 13:10
PCIU8434913 PTJDAR14B8043 3/11/14 5:33 3/14/14 18:48 RW 3/14/14 17:59 3/12/14 17:37 3/14/14 12:36 3/14/14 23:38 PCIU8593812 PTJDAR14B8043 3/11/14 4:38 3/14/14 18:49 RW 3/14/14 17:59 3/12/14 17:37 3/14/14 12:35 3/14/14 23:41 DFSU6365186 PTJDAR14B8048 3/11/14 1:40 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 11:02 3/14/14 12:33 3/14/14 23:41 PCIU8287746 PTJDAR14B8048 3/11/14 1:40 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:34 3/14/14 23:39 DFSU6365186 PTJDAR14B8048 3/11/14 1:40 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:34 3/14/14 23:39 DFSU6365186 PTJDAR14B8048 3/11/14 14:47 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:33 3/14/14 23:39 DFSU6365186 PTJDAR14B8048 3/11/14 4:27 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:33 3/14/14 23:39 TRLU9115409 PTJDA	DFSU6365186	PTJDAR14B8048	3/11/14 1:40	3/14/14 18:14	RW	3/14/14 17:58	3/13/14 7:53	3/14/14 12:33	3/14/14 23:41
PCIU8593812 PTJDAR14B8043 3/11/14 4:38 3/14/14 18:49 RW 3/14/14 17:59 3/12/14 17:37 3/14/14 12:35 3/14/14 23:41 DFSU6365186 PTJDAR14B8048 3/11/14 1:40 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 11:02 3/14/14 12:33 3/14/14 23:41 PCIU8287746 PTJDAR14B8048 3/11/14 4:27 3/14/14 16:17 RW 3/14/14 17:58 3/13/14 11:02 3/14/14 12:34 3/14/14 23:39 DFSU6365186 PTJDAR14B8048 3/11/14 1:40 3/14/14 16:17 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:33 3/14/14 23:41 PCIU8287746 PTJDAR14B8048 3/11/14 14:27 3/14/14 16:17 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:33 3/14/14 23:41 PCIU28287746 PTJDAR14B8048 3/11/14 8:19 3/14/14 15:42 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:34 3/14/14 23:41 PCIU215499 PTJDAR14B8030 3/11/14 14:35 3/14/14 16:22 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:30 3/14/14 23:49 PCIU2206984 PTJD	PCIU8287746	PTJDAR14B8048	3/11/14 4:27	3/14/14 16:17	RW	3/14/14 17:58	3/13/14 7:53	3/14/14 12:34	3/14/14 23:39
DFSU6365186 PTJDAR14B8048 3/11/14 1:40 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 11:02 3/14/14 12:33 3/14/14 23:41 PCIU8287746 PTJDAR14B8048 3/11/14 4:27 3/14/14 16:17 RW 3/14/14 17:58 3/13/14 11:02 3/14/14 12:34 3/14/14 23:39 DFSU6365186 PTJDAR14B8048 3/11/14 1:40 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:33 3/14/14 23:41 PCIU8287746 PTJDAR14B8048 3/11/14 4:27 3/14/14 16:17 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:33 3/14/14 23:41 PCIU28287746 PTJDAR14B8030 3/11/14 8:19 3/14/14 15:42 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:32 3/14/14 23:49 PCIU2627432 PTJDAR14B8030 3/11/14 14:55 3/14/14 16:02 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:30 3/14/14 12:30 3/14/14 23:49 PCIU210653 PTJDAR14B8030 3/11/14 16:18 3/14/14 16:44 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:33 3/14/14 23:44 PC	PCIU8434913	PTJDAR14B8043	3/11/14 5:33	3/14/14 18:48	RW	3/14/14 17:59	3/12/14 17:37	3/14/14 12:36	3/14/14 23:38
PCIU8287746 PTJDAR14B8048 3/11/14 4:27 3/14/14 16:17 RW 3/14/14 17:58 3/13/14 11:02 3/14/14 12:34 3/14/14 23:39 DFSU6365186 PTJDAR14B8048 3/11/14 1:40 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:33 3/14/14 23:41 PCIU8287746 PTJDAR14B8048 3/11/14 4:27 3/14/14 16:17 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:34 3/14/14 23:39 TRLU9115409 PTJDAR14B8030 3/11/14 8:19 3/14/14 15:42 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:32 3/14/14 23:49 PCIU2627432 PTJDAR14B8030 3/11/14 14:35 3/14/14 18:06 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:30 3/14/14 23:49 PCIU2206984 PTJDAR14B8030 3/11/14 16:18 3/14/14 18:06 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:38 3/14/14 23:49 PCIU2112653 PTJDAR14B8030 3/11/14 16:18 3/14/14 16:04 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:33 3/14/14 23:44 PCIU2103055 PTJ	PCIU8593812	PTJDAR14B8043	3/11/14 4:38	3/14/14 18:49	RW	3/14/14 17:59	3/12/14 17:37	3/14/14 12:35	3/14/14 23:41
DFSU6365186 PTJDAR14B8048 3/11/14 1:40 3/14/14 18:14 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:33 3/14/14 23:41 PCIU8287746 PTJDAR14B8048 3/11/14 4:27 3/14/14 16:17 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:34 3/14/14 23:39 TRLU9115409 PTJDAR14B8030 3/11/14 8:19 3/14/14 16:42 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:32 3/14/14 23:44 PCIU2627432 PTJDAR14B8030 3/11/14 14:35 3/14/14 18:06 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:30 3/14/14 23:49 PCIU2206984 PTJDAR14B8030 3/11/14 14:45 3/14/14 18:06 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:30 3/14/14 23:49 PCIU2103055 PTJDAR14B8030 3/11/14 18:14 3/14/14 16:10 RW 3/14/14 18:01 3/13/14 16:37 3/14/14 12:38 3/14/14 23:43 PCIU1728011 PTJDAR14B8030 3/11/14 16:58 3/14/14 18:03 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:40 3/14/14 23:38 PCIU1537870 PT	DFSU6365186	PTJDAR14B8048	3/11/14 1:40	3/14/14 18:14	RW	3/14/14 17:58	3/13/14 11:02	3/14/14 12:33	3/14/14 23:41
PCIU8287746 PTJDAR14B8048 3/11/14 4:27 3/14/14 16:17 RW 3/14/14 17:58 3/13/14 15:01 3/14/14 12:34 3/14/14 23:39 TRLU9115409 PTJDAR14B8030 3/11/14 8:19 3/14/14 15:42 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:32 3/14/14 23:44 PCIU2627432 PTJDAR14B8030 3/11/14 14:35 3/14/14 18:06 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:30 3/14/14 23:39 PCIU2206984 PTJDAR14B8030 3/11/14 14:54 3/14/14 18:06 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:38 3/14/14 23:49 PCIU2112653 PTJDAR14B8030 3/11/14 16:18 3/14/14 16:44 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:38 3/14/14 23:49 PCIU2103055 PTJDAR14B8030 3/11/14 18:14 3/14/14 18:01 RW 3/14/14 18:01 3/13/14 16:37 3/14/14 12:40 3/14/14 23:49 PCIU1728011 PTJDAR14B8030 3/11/14 16:58 3/14/14 18:03 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:39 3/14/14 23:39 PCIU1537870 P	PCIU8287746	PTJDAR14B8048	3/11/14 4:27	3/14/14 16:17	RW	3/14/14 17:58	3/13/14 11:02	3/14/14 12:34	3/14/14 23:39
TRLU9115409 PTJDAR14B8030 3/11/14 8:19 3/14/14 15:42 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:32 3/14/14 23:44 PCIU2627432 PTJDAR14B8030 3/11/14 14:35 3/14/14 16:22 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:30 3/14/14 23:39 PCIU2206984 PTJDAR14B8030 3/11/14 14:54 3/14/14 18:06 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:38 3/14/14 23:40 PCIU2112653 PTJDAR14B8030 3/11/14 16:18 3/14/14 16:14 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:38 3/14/14 23:44 PCIU2103055 PTJDAR14B8030 3/11/14 16:18 3/14/14 16:10 RW 3/14/14 18:01 3/13/14 16:37 3/14/14 12:40 3/14/14 23:44 PCIU1728011 PTJDAR14B8030 3/11/14 16:58 3/14/14 18:03 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:40 3/14/14 23:38 PCIU1537870 PTJDAR14B8030 3/11/14 8:16 3/14/14 18:38 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:26 3/14/14 23:37 MSKU1030540 8	DFSU6365186	PTJDAR14B8048	3/11/14 1:40	3/14/14 18:14	RW	3/14/14 17:58	3/13/14 15:01	3/14/14 12:33	3/14/14 23:41
PCIU2627432 PTJDAR14B8030 3/11/14 14:35 3/14/14 16:22 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:30 3/14/14 23:39 PCIU2206984 PTJDAR14B8030 3/11/14 14:54 3/14/14 18:06 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:38 3/14/14 23:40 PCIU2112653 PTJDAR14B8030 3/11/14 16:18 3/14/14 16:44 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:23 3/14/14 23:49 PCIU2103055 PTJDAR14B8030 3/11/14 16:18 3/14/14 16:10 RW 3/14/14 18:01 3/13/14 16:37 3/14/14 12:40 3/14/14 23:43 PCIU1728011 PTJDAR14B8030 3/11/14 16:58 3/14/14 18:03 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:39 3/14/14 23:38 PCIU1537870 PTJDAR14B8030 3/11/14 8:16 3/14/14 18:38 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:39 3/14/14 23:39 MSKU1030540 867176133 1/30/14 14:34 2/2/14 10:51 RW 2/2/14 10:43 1/30/14 19:13 2/1/14 12:28 2/2/14 13:53 PCIU3069166 PTJDAR14	PCIU8287746	PTJDAR14B8048	3/11/14 4:27	3/14/14 16:17	RW	3/14/14 17:58	3/13/14 15:01	3/14/14 12:34	3/14/14 23:39
PCIU2206984 PTJDAR14B8030 3/11/14 14:54 3/14/14 18:06 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:38 3/14/14 23:40 PCIU2112653 PTJDAR14B8030 3/11/14 16:18 3/14/14 16:44 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:23 3/14/14 23:44 PCIU2103055 PTJDAR14B8030 3/11/14 18:14 3/14/14 18:01 RW 3/14/14 18:01 3/13/14 16:37 3/14/14 12:40 3/14/14 23:43 PCIU1728011 PTJDAR14B8030 3/11/14 16:58 3/14/14 18:03 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:39 3/14/14 23:38 PCIU1537870 PTJDAR14B8030 3/11/14 8:16 3/14/14 18:38 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:29 3/14/14 23:38 MSKU1030540 867176133 1/30/14 14:34 2/2/14 10:51 RW 2/2/14 10:43 1/30/14 19:13 2/1/14 12:28 2/2/14 13:53 PCIU8203832 PTJDAR14B8031 3/16/14 20:18 3/19/14 13:41 RW 3/19/14 10:52 3/18/14 12:58 3/19/14 11:08 3/19/14 19:18 PCIU8203832 PTJDAR14	TRLU9115409	PTJDAR14B8030	3/11/14 8:19	3/14/14 15:42	RW	3/14/14 18:00	3/13/14 16:37	3/14/14 12:32	3/14/14 23:44
PCIU2112653 PTJDAR14B8030 3/11/14 16:18 3/14/14 16:44 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:23 3/14/14 23:44 PCIU2103055 PTJDAR14B8030 3/11/14 18:14 3/14/14 16:10 RW 3/14/14 18:01 3/13/14 16:37 3/14/14 12:40 3/14/14 23:43 PCIU1728011 PTJDAR14B8030 3/11/14 16:58 3/14/14 18:03 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:39 3/14/14 23:38 PCIU1537870 PTJDAR14B8030 3/11/14 8:16 3/14/14 18:38 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:26 3/14/14 23:37 MSKU1030540 867176133 1/30/14 14:34 2/2/14 10:51 RW 2/2/14 10:43 1/30/14 19:13 2/1/14 12:28 2/2/14 13:53 PCIU3069166 PTJDAR14B8074 3/16/14 20:18 3/19/14 13:41 RW 3/19/14 10:49 3/18/14 12:58 3/19/14 11:06 3/19/14 19:18 PCIU8203832 PTJDAR14B8031 3/16/14 20:18 3/19/14 13:41 RW 3/19/14 10:52 3/18/14 12:58 3/19/14 11:08 3/19/14 19:18	PCIU2627432	PTJDAR14B8030	3/11/14 14:35	3/14/14 16:22	RW	3/14/14 18:00	3/13/14 16:37	3/14/14 12:30	3/14/14 23:39
PCIU2103055 PTJDAR14B8030 3/11/14 18:14 3/14/14 16:10 RW 3/14/14 18:01 3/13/14 16:37 3/14/14 12:40 3/14/14 23:43 PCIU1728011 PTJDAR14B8030 3/11/14 16:58 3/14/14 18:03 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:39 3/14/14 23:38 PCIU1537870 PTJDAR14B8030 3/11/14 8:16 3/14/14 18:38 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:26 3/14/14 23:37 MSKU1030540 867176133 1/30/14 14:34 2/2/14 10:51 RW 2/2/14 10:43 1/30/14 19:13 2/1/14 12:28 2/2/14 13:53 PCIU3069166 PTJDAR14B8074 3/16/14 20:18 3/19/14 13:40 RW 3/19/14 10:49 3/18/14 13:30 3/19/14 11:06 3/19/14 19:18 PCIU8203832 PTJDAR14B8031 3/16/14 20:18 3/19/14 13:41 RW 3/19/14 10:52 3/18/14 12:58 3/19/14 11:08 3/19/14 19:18 PCIU8203832 PTJDAR14B8031 3/16/14 20:18 3/19/14 13:41 RW 3/19/14 10:52 3/18/14 12:58 3/19/14 11:08 3/19/14 19:18	PCIU2206984	PTJDAR14B8030	3/11/14 14:54	3/14/14 18:06	RW	3/14/14 18:00	3/13/14 16:37	3/14/14 12:38	3/14/14 23:40
PCIU1728011 PTJDAR14B8030 3/11/14 16:58 3/14/14 18:03 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:39 3/14/14 23:38 PCIU1537870 PTJDAR14B8030 3/11/14 8:16 3/14/14 18:38 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:26 3/14/14 23:37 MSKU1030540 867176133 1/30/14 14:34 2/2/14 10:51 RW 2/2/14 10:43 1/30/14 19:13 2/1/14 12:28 2/2/14 13:53 PCIU3069166 PTJDAR14B8074 3/16/14 20:15 3/19/14 13:40 RW 3/19/14 10:49 3/18/14 13:30 3/19/14 11:06 3/19/14 19:18 PCIU8203832 PTJDAR14B8031 3/16/14 20:18 3/19/14 13:41 RW 3/19/14 10:52 3/18/14 12:58 3/19/14 11:08 3/19/14 19:18 PCIU8203832 PTJDAR14B8031 3/16/14 20:18 3/19/14 13:41 RW 3/19/14 10:52 3/18/14 12:58 3/19/14 11:08 3/19/14 19:18	PCIU2112653	PTJDAR14B8030	3/11/14 16:18	3/14/14 16:44	RW	3/14/14 18:00	3/13/14 16:37	3/14/14 12:23	3/14/14 23:44
PCIU1537870 PTJDAR14B8030 3/11/14 8:16 3/14/14 18:38 RW 3/14/14 18:00 3/13/14 16:37 3/14/14 12:26 3/14/14 23:37 MSKU1030540 867176133 1/30/14 14:34 2/2/14 10:51 RW 2/2/14 10:43 1/30/14 19:13 2/1/14 12:28 2/2/14 13:53 PCIU3069166 PTJDAR14B8074 3/16/14 21:55 3/19/14 13:40 RW 3/19/14 10:49 3/18/14 13:30 3/19/14 11:06 3/19/14 19:18 PCIU8203832 PTJDAR14B8031 3/16/14 20:18 3/19/14 13:41 RW 3/19/14 10:52 3/18/14 12:58 3/19/14 11:08 3/19/14 19:18 PCIU8203832 PTJDAR14B8031 3/16/14 20:18 3/19/14 13:41 RW 3/19/14 10:52 3/18/14 12:58 3/19/14 11:08 3/19/14 19:18	PCIU2103055	PTJDAR14B8030	3/11/14 18:14	3/14/14 16:10	RW	3/14/14 18:01	3/13/14 16:37	3/14/14 12:40	3/14/14 23:43
MSKU1030540 867176133 1/30/14 14:34 2/2/14 10:51 RW 2/2/14 10:43 1/30/14 19:13 2/1/14 12:28 2/2/14 13:53 PCIU3069166 PTJDAR14B8074 3/16/14 21:55 3/19/14 13:40 RW 3/19/14 10:49 3/18/14 13:30 3/19/14 11:06 3/19/14 19:18 PCIU8203832 PTJDAR14B8031 3/16/14 20:18 3/19/14 13:41 RW 3/19/14 15:00 3/18/14 12:58 3/19/14 11:08 3/19/14 19:18 PCIU8203832 PTJDAR14B8031 3/16/14 20:18 3/19/14 13:41 RW 3/19/14 10:52 3/18/14 12:58 3/19/14 11:08 3/19/14 19:18	PCIU1728011	PTJDAR14B8030	3/11/14 16:58	3/14/14 18:03	RW	3/14/14 18:00	3/13/14 16:37	3/14/14 12:39	3/14/14 23:38
PCIU3069166 PTJDAR14B8074 3/16/14 21:55 3/19/14 13:40 RW 3/19/14 10:49 3/18/14 13:30 3/19/14 11:06 3/19/14 19:18 PCIU8203832 PTJDAR14B8031 3/16/14 20:18 3/19/14 13:41 RW 3/19/14 15:00 3/18/14 12:58 3/19/14 11:08 3/19/14 19:18 PCIU8203832 PTJDAR14B8031 3/16/14 20:18 3/19/14 13:41 RW 3/19/14 10:52 3/18/14 12:58 3/19/14 11:08 3/19/14 19:18	PCIU1537870	PTJDAR14B8030	3/11/14 8:16	3/14/14 18:38	RW	3/14/14 18:00	3/13/14 16:37	3/14/14 12:26	3/14/14 23:37
PCIU8203832 PTJDAR14B8031 3/16/14 20:18 3/19/14 13:41 RW 3/19/14 15:00 3/18/14 12:58 3/19/14 11:08 3/19/14 19:18 PCIU8203832 PTJDAR14B8031 3/16/14 20:18 3/19/14 13:41 RW 3/19/14 10:52 3/18/14 12:58 3/19/14 11:08 3/19/14 19:18	MSKU1030540	867176133	1/30/14 14:34	2/2/14 10:51	RW	2/2/14 10:43	1/30/14 19:13	2/1/14 12:28	2/2/14 13:53
PCIU8203832 PTJDAR14B8031 3/16/14 20:18 3/19/14 13:41 RW 3/19/14 10:52 3/18/14 12:58 3/19/14 11:08 3/19/14 19:18	PCIU3069166	PTJDAR14B8074	3/16/14 21:55	3/19/14 13:40	RW	3/19/14 10:49	3/18/14 13:30	3/19/14 11:06	3/19/14 19:18
	PCIU8203832	PTJDAR14B8031	3/16/14 20:18	3/19/14 13:41	RW	3/19/14 15:00	3/18/14 12:58	3/19/14 11:08	3/19/14 19:18
PCIU8203832 PTJDAR14B8031 3/16/14 20:18 3/19/14 13:41 RW 3/19/14 15:00 3/19/14 15:40 3/19/14 11:08 3/19/14 19:18	PCIU8203832	PTJDAR14B8031	3/16/14 20:18	3/19/14 13:41	RW	3/19/14 10:52	3/18/14 12:58	3/19/14 11:08	3/19/14 19:18
	PCIU8203832	PTJDAR14B8031	3/16/14 20:18	3/19/14 13:41	RW	3/19/14 15:00	3/19/14 15:40	3/19/14 11:08	3/19/14 19:18

PCIU8203832	PTJDAR14B8031	3/16/14 20:18	3/19/14 13:41	RW	3/19/14 10:52	3/19/14 15:40	3/19/14 11:08	3/19/14 19:18
PCIU8203832	PTJDAR14B8031	3/16/14 20:18	3/19/14 13:41	RW	3/19/14 15:00	3/19/14 15:46	3/19/14 11:08	3/19/14 19:18
PCIU8203832	PTJDAR14B8031	3/16/14 20:18	3/19/14 13:41	RW	3/19/14 10:52	3/19/14 15:46	3/19/14 11:08	3/19/14 19:18
PCIU8203832	PTJDAR14B8031	3/16/14 20:18	3/19/14 13:41	RW	3/19/14 15:00	3/19/14 15:51	3/19/14 11:08	3/19/14 19:18
PCIU8203832	PTJDAR14B8031	3/16/14 20:18	3/19/14 13:41	RW	3/19/14 10:52	3/19/14 15:51	3/19/14 11:08	3/19/14 19:18
PCIU8203832	PTJDAR14B8031	3/16/14 20:18	3/19/14 13:41	RW	3/19/14 15:00	3/19/14 16:32	3/19/14 11:08	3/19/14 19:18
PCIU8203832	PTJDAR14B8031	3/16/14 20:18	3/19/14 13:41	RW	3/19/14 10:52	3/19/14 16:32	3/19/14 11:08	3/19/14 19:18
TCKU1409550	YQDDARM1312303	1/21/14 14:40	1/24/14 17:03	CD	1/24/14 16:54	1/22/14 18:13	1/24/14 14:21	1/24/14 19:07
PCIU1690385	STJDAR1430045	3/11/14 11:37	3/15/14 17:41	ZM	3/15/14 14:58	3/13/14 17:01	3/15/14 11:00	3/15/14 22:27
MSKU1492370	867153529	1/31/14 2:05	2/4/14 18:00	CD	2/4/14 17:14	1/30/14 18:52	2/4/14 12:14	2/4/14 21:01
PCIU8910162	SHADAR140000076	3/11/14 13:44	3/15/14 12:42	CD	3/14/14 19:48	3/14/14 8:10	3/14/14 20:39	3/15/14 22:21
MRKU8937594	753780851	3/20/14 18:31	3/24/14 13:11	BI	3/24/14 13:08	3/20/14 12:51	3/24/14 9:36	3/24/14 14:58
TEMU6182762	DNSADARP1481155	2/18/14 14:12	2/22/14 19:38	RW	7/11/13 13:25	2/21/14 11:53	2/21/14 18:44	2/22/14 20:23
PONU8065765	951382308	3/20/14 17:50	3/24/14 20:22	RW	3/24/14 14:26	3/21/14 12:31	3/24/14 10:16	3/24/14 22:35
MSKU0183479	951382322	3/20/14 2:24	3/24/14 18:02	RW	3/24/14 14:21	3/21/14 12:52	3/24/14 10:22	3/24/14 21:10
MRKU4477551	951382301	3/20/14 1:15	3/24/14 19:14	RW	3/24/14 19:19	3/21/14 17:16	3/24/14 12:40	3/24/14 21:10
MSKU9916617	951382325	3/20/14 20:57	3/24/14 15:02	RW	3/24/14 14:27	3/21/14 12:49	3/24/14 10:27	3/24/14 18:50
MSKU1991300	951399119	3/20/14 17:48	3/24/14 14:57	RW	3/24/14 14:17	3/21/14 12:53	3/24/14 10:21	3/24/14 18:50
MRKU4160103	951404691	3/20/14 13:36	3/24/14 17:31	RW	3/24/14 14:25	3/21/14 13:21	3/24/14 10:15	3/24/14 21:10
PCIU9979482	PTJDAR14B8031	3/16/14 16:59	3/20/14 19:19	RW	3/19/14 10:52	3/18/14 12:58	3/19/14 11:16	3/20/14 20:39
PCIU9979482	PTJDAR14B8031	3/16/14 16:59	3/20/14 19:19	RW	3/19/14 10:52	3/19/14 15:40	3/19/14 11:16	3/20/14 20:39
PCIU9979482	PTJDAR14B8031	3/16/14 16:59	3/20/14 19:19	RW	3/19/14 10:52	3/19/14 15:46	3/19/14 11:16	3/20/14 20:39
PCIU9979482	PTJDAR14B8031	3/16/14 16:59	3/20/14 19:19	RW	3/19/14 10:52	3/19/14 15:51	3/19/14 11:16	3/20/14 20:39
PCIU9979482	PTJDAR14B8031	3/16/14 16:59	3/20/14 19:19	RW	3/19/14 10:52	3/19/14 16:32	3/19/14 11:16	3/20/14 20:39
MSKU0088810	951399169	3/20/14 2:21	3/24/14 16:56	RW	3/24/14 14:23	3/21/14 12:25	3/24/14 10:14	3/24/14 21:09
MRKU4154800	951387388	3/20/14 1:36	3/24/14 16:06	RW	3/24/14 14:20	3/21/14 12:36	3/24/14 10:23	3/24/14 18:48
PCIU8595142	NBDAR4041113	2/18/14 15:01	2/22/14 12:23	BI	2/22/14 11:56	2/21/14 16:19	2/22/14 10:35	2/22/14 13:42
CAIU3327452	DDMTDARP1481054	3/11/14 8:46	3/15/14 18:13	ZM	3/15/14 15:00	3/12/14 13:50	3/15/14 13:50	3/15/14 22:26
CAIU3327452	DDMTDARP1481054	3/11/14 8:46	3/15/14 18:13	ZM	3/27/14 13:03	3/12/14 13:50	3/15/14 13:50	3/15/14 22:26
MSKU0016867	951382321	3/20/14 8:56	3/24/14 16:03	RW	3/24/14 14:19	3/21/14 12:32	3/24/14 10:24	3/24/14 18:49
MRKU4052243	951399154	3/20/14 3:52	3/24/14 16:15	RW	3/24/14 14:18	3/21/14 12:33	3/24/14 10:26	3/24/14 18:47
CAIU3327452	DDMTDARP1481054	3/11/14 8:46	3/15/14 18:13	ZM	3/15/14 15:00	3/31/14 12:34	3/15/14 13:50	3/15/14 22:26
CAIU3327452	DDMTDARP1481054	3/11/14 8:46	3/15/14 18:13	ZM	3/27/14 13:03	3/31/14 12:34	3/15/14 13:50	3/15/14 22:26
GLDU9610094	DACLLWP14395	3/11/14 10:18	3/16/14 10:51	MW	3/16/14 10:50	3/12/14 19:02	3/15/14 14:11	3/16/14 12:43