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INTRODUCTION AND REGULATION OF ELECTRONICBILL OF LADING IN ETHIOPIA: APPRAISAL OF THE LEGAL ENVIRONMENT AND LESSON FROM INTERNATIONAL RECOMMENDATION

ISRAEL WOLDEKIDAN HAILEYESUS

School of Law Bahir Dar University

June, 2018

Title Page

INTRODUCTION AND REGULATION OF ELECTRONICBILL OF LADING IN ETHIOPIA: APPRAISAL OF THE LEGALENVIRONMENT AND LESSON FROMNTERNATIONAL RECOMMENDATION

Thesis

Submitted in Partial Fulfillment of the Requirements for the Degree of Master of Laws (LLM) in Business and Corporate Law at the School of Law, Bahir Dar University

By

Israel Woldekidan Hilæyesus

Advisor

Solomon Abay(Ph.D., Associate Professoof law)

School of Law Bahir Dar University

June, 2018

Thesis Approval Page

The thesis titled lifetroduction and Regulation of ElectronBill of lading in Ethiopia: Appraisal of the LegaEnvironment and Lesson frommeternational Recommendation Mr. Israel Woldekidan is approved for the degree of Master of Laws (LL.M).

Board of Examiners

Name	Signature
Advisor:	
Internal Examiner:	
External Examiner:	
Date:	

Statement of Declaration

I, Israel Woldekidan declare that this Thesis titlendrecduction and Regulation of Electronic Bill of lading in Ethiopia: Appraisal of the LegaEnvironment and Lesson frominternationalRecommendationsCubmitted in partial fulfillment of the degree of Master of Laws (LL.M)n Business and Corporate Lacomprises my own work. To the best of my knowledge, this study has not been submitted for any degree in this University or any other University. In compliance with widely accepted practices, I have duly acknowledged and referenced all materials used in this work.

I understand that nonadherence to the principles of academic honesty and integrity, misrepresentation/fabrication of any idea/data/fact/source will constitute sufficient ground for disciplinary action by the University and can also evoke cristionation from the State and civil action from the sources which have not been properly cited or acknowledged.

Signature

Israel Woldekidan

Name of Student

BDU0908009[PR]

University Id. Number

June \$2018

Date

Dedication

This thesis is dedicated to my sisttene lateMihret Woldekidan. Rest in Peace!!

Acknowledgement

Completion of this work would have been impossible without valuable contributions from many individuals. First, my deepest gratitude goes to my advisor Dr. Solomon Abay (Associate Professor of law) for the patiengue, kindness and advice he has provided throughout this work. I have been extremely lucky to have an advisor who cared so much about my work who responded to my questions and gave valuable comments on time.

Second, I am also grateful to the **resp**ents of the study for the time they took in responding to the interviewhave with them. In this respect, I wish to espleyci thank, Mr. Yared Shiferaw and r. Melaku Mekonnen, Mr. Nigussie Wabbe from MACCFA logistics Plc, Mr. Asaminew Feleke froEnthiopian Petroleum Supply Enterprise, Mr. Samson Hailu from Solo International Freight Forwarders and Logistics Agent, Mr. Anteneh Girma from Commercial Bank of Ethiopia, Mr. Elias Kiflemariam from Ethiopia Custom Management System Project Office and Mr. Temesgen Yihunie from Ethiopia Maritime Affairs Authority.am also very grateful to Mr. Abebe Tefera, Director of Policy, Research and Legal Affairs Directorate at Ethiopian Maritime Affairs Authority for his unreserved help by giving materials and datahich helped me a lot to conduct this research

Third, my deepest gratitude goes to, my mother Serkalem Sidelel and my father Woldekidan Haileyesus, who has been with me as the source of encouragement notwithstanding that heyare in a difficult situation I am also very thankful for my classmates and friends, particularly Belete Addis, Tajebe Getaneh and Abiy Demise for their valuable comments and insights in the making up of this study.

Finally, I would like to thank the ALPHA AND OMEGA of this worldesus Christ for giving me the strength, guidance and courage to carry out this research.

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List of Acronyms and Abbreviation

Art.	Article
ASYCUDA	Automated Systems for Customs Data
BOLERO	Bills of Lading Electronic Registry Organization
CBE	Commercial Bank of Ethiopia
CMI	Comité Maritime International
CMR of Goods by Road	Conventicelating to the Contract of International Carriage
EBL	ElectronicBill of lading
EDI	Electronic Data Interchange
ERCA	Ethiopia Revenue and Custom Authority
ETRs	Electronic Transferable Records
FDRE	Federal Democratic Republic of Ethiopia
FIATA	International Federation of Freight Forwarders Association
ICT	Information Communication Technology
LPI	Logistics Permissance Index
MC99	Montreal Convention 1999
OECD	Organization for Economic@eration and Development
UN	United Nation
UNCITRAL	United Nation Commission brternational Trade Law
UNCTAD	United Nations Conference on Trade and Development
UNDP	United Nation Development Program
UNECA	United Nations Economic Commission for Africa
USA	United States of America
USD	United States Dollar

Abstract

Bill of lading is playing a vital role in the international commercial transaction since the time it has been employed. In terms of development this document has passes through different stages depending on the function it performed. Form wise, it has been used in forms of paperbill of lading until recent time. However, due to the advent of technology and the inherent problems associated with being used in forms of paper results the introduction of dematerializedbill of lading in the international commercial transactioElectronicbill of lading is not yet abundantly used by the maritime community for reason mainly attributed to lack of uniform international law governing such dematerial bit dof lading. However, national states enacted laws which govern electrbiliof lading to have a default uniform law governing such digitalization process. The study aimed to investigate the need for introducing electronidill of lading in Ethiopia and the how about of its regulation. To this end, the study employed a blerfcboth doctrinal and socidegal research type which is carried out through qualitative research methodology. Doctrinal research type was used to analyze the existing Ethiopian and international legislation, soft laws and scholarly writings, whereas the signal research type was employed to look into whether there are factors that necessitate introduction of electromicof lading in Ethiopia or not. In doing so, first, the study examined factors that necessitate introduction of electiloofdading in Ethiopia and showed that there are actual demanding factors for introduction of it. Second, it looks into legal concerns of introducing electrbilic flading and the existing Ethiopia legal environment in light of its room for accommodating election light of lading and revealed that the law has gaps to address the legal concerns associated with Electronic bill of lading. Third, it studied that how legal is such electronic ill of lading is regulated under the UNCITRAL Model Laws and the lesson Ethiopia draw from such recommendation. The thesis argued that Ethiopia should introduce electitionic adding and regarding its regulation shall take the UNCITRAModel Law on Electronic Transferable Records and Electronic Commerce as a model. Finally, based on its findings the study forwarded recommendations to be taken by the government.

CHAPTER ONE: INTRODUCTION

1.1. Background of the Study

While goods are transacted across the border under the international commercial transaction, it is must to have an exchange of documents as between the concerned parties ranging from the government entities to the trader themselves. Among those documents, tensport document lies at the soul of the international commercial transaction. These include documents issued by the shipping line, freight forwards, airlines or other transport carrieForm all transport documents in the shipping indústry. Traditionally these business processes are conducted using paper documents. However, advances in the information technology, electronic communication and processing has an impact on the overallrimateonal commercial transaction. As a result, the efficiency of paper as methods of communication across commercial transaction is questioned and subject to replacement by the electronic counterpart.

Shipping is the backbone of global trade in which & global trade in goods is carried by the marine indust²yShipping and international trade are the two side of a coin. Therefore, it is indispensable to have shipping and logistics industry which coup up with the technological advancementul N Trade and Development Commission advise states for ansition to an electronic environment in order to avoid problems of paperill of lading which includes time and expense incurred in processing numerous documents, the time spent in waiting for the arrivapaperie bill of lading at the port of discharge, and the cost and liabilities arising from delivery of goods without presentation of the origibal of lading.³ The commission stressed that transition to electronic transfer of document would be very important for developing countries who always want to see their raw materials and commodities

¹ Georgios Zekos Documentation in the 2007 Draft convention on the carriage of goods winolly partly by sea Neptunus, revue électronique, Centre de droit maritime et océanique de,Nantes Vol.14, No. 1, 2008. [Here in afteZekos,Documentation in the 207 Draft convention on the carriage of goods]

² European Community Ship Owners Association, ,Shipping and Global Trade: Towards an EU external shipping policy Chapter 1 at <u>http://www.ecsa.eu/images/PositionPapers2017/2024</u>7 27-ECSA-External-ShippingAgendaFINAL.pdf. [Last Accessed, December 2017].

³ UN Trade and Development Commission on Enterprise, Business Facilitation and Development, Seventh session Geneva*f***28** February 2003.

to the global market with short time Eurthermore, the increased pacecommercial transaction which is the result of technological advancement in communication modes necessitates the transformation of papilerof lading to a wireless and paperless document that must be acceptable to all the parties in the maritime trade who are directly or indirectly related. Accordingly, the shipping industry turns its attention on the dematerialization of papabilit of lading as the alternatives to negotiable papabill of lading.⁵

The use of information technology to share information to reanizations started since the 1970sthormation technology was used by businesses to transfer information to their customers or suppliers mostly through valued networks. Later on standard protocols were developed to computerize the grectosin electronic documents relating to purchasing, selling, shipping, receiving, and inventory, financial and other activities. The efficiency of EDI methods has thus changed the vein of international commercial transaction over the last decades. The development of electronic commerce and electronic data interchange affected the shipping industry. At the international level among the documents used to perform international trade, it is a level or grans; when the issue of digitalization is raised.

The development difill of lading has passed through evolutionary periods; as usual the late 1990 s also gave another stage of development for this unique document of international ommercial transaction that is having an electronic form. For instance in case of usage of straig bill of lading the so-called Cargo Key Receipt was developed! Since then the shipping business community has tried their own best for the introduction of ectronic bill of lading. Accordingly, through private initiatives electronic bill of lading was introduced in the international trade.

⁴W John F Wilson, Carriage of Goods by Seat^h ed., Pearson Education Limitet larlow, England, ,2008, p.161. [Here in after lison, Carriage of Goods by Sea

⁵ Bury, Electronic Bills of Lading: A NeveEnding Storyp.212.

⁶ Merrill Warkentin, Business to Business Electronic Commerce: Challenges and Sol**uteas** Group Publishing USA, 2002p. 24. [Here in after, Warkentingusiness to Business Electronic Commerce: Challenges and Solution

⁷ Ibid.

⁸ Ibid.

⁹ Ibid.

¹⁰ This period is a turning point in the world political, technological and economic change.

¹¹ Warkentin, Busiess to Business Electronic Commerce: Challenges and Solutizon

Among others, SeaDold's Bolero¹³, CMI¹⁴, The CargoDocs EBIE, The @Global Trade Systen's, The Trade Card Syster and the Koean Trade Network and the Block chainBill of lading are mentionable. Since the start of this century, electronic bill of lading is flourishing. This is because the technological, commercial and legal problems got recognition. Among others, the follow **frag** tors influenced such result. Electronido of lading is recognized by Baltic and International Maritime Council; which is the world•s largest international shipping association, with more than2,200 members globall **y** addition, the Intern**a** of Protection and Indemnity hsurance Clubs• approved electro**bid** of lading as one transport document. Moreover, the invention of Block chain technology addressed the very problem of the existing technology that is using central registry system.

Although there are technical and other factors which affect the development of electronic bill of lading across the maritime community, failure of the law to recognize and regulate takes the upper hand. However, after a decade of the technological innovation of electronic bill of lading, the issues folaw are getting recognition. Accordingly, through the help of UNCITRAL United Nation Convention on Contracts for the International Carriage of Goods Wholly or Partly by Seá⁹, Model law on Electronic Commerce Model on Electronic Signature, recentlymodel law on Electronic Transferable Records are enacted. At the national level states has recognized and regulated electodihor lading. Besides, there are

¹³The Bill of lading Electronic Registry Organizatio formed by ajoint venture between SWFT and TT Club, formed in 1996 through the help of EU.

¹² The first attempt of digitalizing happing documents and it was yestem based in London to support electronic data transfer with the negotiability function.

¹⁴ An international maritime institution called committee maritime international which is established in 1897.

 ¹⁵ It was a venture developed by the ESS Company in 2003, operating ininMarker to deal with electronic business documents that had been introducted like electronic bill of lading.
 ¹⁶ Established by CCEWeb Corp,in 2000 to enhance the financial action across globe and later on the project upgraded to the logistics sector.

¹⁷US based company founded in 1999 by Kurt Cavano as a privozitely d firm, in order to provided global supply chain and financial supply chain.

¹⁸ A Korean company establied to provide paperless trade services include trade financing services, e-negotiation services for export bill of exchange, electronic letter of credit servicestification and licensing services for import/export goods, FTA certificate of originicses, cargo insurance services, and electronic payment services for import/explated charges. Its paperless trade services also comprise logistics and customs clearandecuement relay services, manifest consolidation system servicesbiel of lading services, edelivery order services. ¹⁹ Commonly referred as Rotterdam Rules.

also contractual rules developed by private initiest; in this regard CMI Rules and the Bolero Rule Book are mentionable.

Coming to the case of Ethiopia, Ethiopia has been participan the international tradeas of 3000 years ago. During the Axum civilization, Ethiopia was an active participant of the international trade and it was also among the leading shipping nations. Afterwards, through passage of time, ites involvement in the international trade was not as such active for different reasons. Currently, despite the fact that Ethiopia is a landlood country, our import and export trade is getting increased from time to time. In 2016 the annual total volume of Ethiopiaes total export and import reached\$1,723,892,053 and \$19,120,743,254 in which the total import is steadily increasing on average $b_{2.5\%}$ per year between 2004/05 and 2015/16. Ethiopia is also acceding to the world trade organization which in effect catalyze our international trade. Its share of intergional trade with other African countries, the Middle East and Asia is also inassing. Moreover, modernization efforts are started by the concerned institutions like automation of service and using modern technologies inte custom or transport sectERCA since 1998 has automated most of its foreign trade procedures carried out battline head office and branch offices level; which in effect has accelerated customs clearance and simplified procedures through computerizatio²¹. It has also automated the examination of impexport cargo. It is also working to upgrade the ASYCUDA++the ASYCUDA World system. In addition, the Ethiopian Revenues and Customs Authority and the Investment Climate Facility for Africa signed an Agreement worth US\$ 7.3 million to establish an electronic Single Window system for international trade which woul have paramount importance to bring all concerned organs to a single electronic environment² Most importantly, on March 10, 2012 thiopia and South Korea signed a 13 million US- Dollar deal for the installation of electronic customs clearance system. Electronic Cargo Tracking system is the other modern system

²⁰ €Ethiopia: Trade Statistics,,, athtps://globaledge.msu.edu/countries/ethiopia/tradesta[last accessed on December 29, 2017].

²¹Ethiopia Custom and Revenue Authority, ,Automating Foreign Trade Proceduatese <u>http://www.erca.gov.et/index.php/abauts#automationin-erca</u> >, Last accessed December 10, 2017].

²²The Investment Climate Facility for Africa: ,Ethiopia to improve trade facilitation•, at <. <u>file:///electronic%20custom%20clerance/Ethiopia%20to%20improve%20trade%20facilitation.htm</u> >, [Last accessed December 10, 2017].

which ERCA is working to have in the near fut²/₄ feThe Ministry of Transport is also working to have National Fleet Logistics Information Management System (NFLIMS), the Logistics Information Man**æg**nent System (LIMS). These modernization efforts by the government show us that, there is a tendency to move towards creating paperless foreign trade environment.

Regardingthe regulatory framework, the concept **bolf** of lading is recognized under the **9**60 maritime code and the 1960 commercial code by having the function of carriage of contract, being a document of title and as evidence of the receipt of goods. In addition, recently the so called Multimodal Transport Document (multimodal/combinedbill of lading) is recognized under Multimodal Transport of Goods Proclamation. The concept of electrobrilcof lading is not mentioned in word under the maritime code. However, under the multimodal transport proclamation article 4/3 and 5/1 stated that theastigre, as well as the document, may be signed and recorded in electronic form respectively.

1.2. Statement of Problem

In Ethiopia cargo can be transported from abroad through two main modalities of transportation that is either through carriage by aicaorriage by sea. Besides, recently since 2012 the FDRE government has been realizing a multimodal transport system to achieve the plan on the modernization of the logistics sector primarily to address the long dwell times at the port and the demurrage icostjibouti²⁵ Accordingly, the multimodal is used for importation of containerized cargo and some vehicle; and the unimodal is used for import of other cargoes and exports of all types of cargoes. According to the 2012/13 Ethiopian Shipping Line sectoral report, the total number of imports is shared between multimodal and unimodal is 43% and 57%, respectively. The goods transported through ocean which is either bulk or containerized cargoes are characterized by consolidation or deconsolidation near he source or destination which in effect would cost Ethiopia by the fact that, it

²⁴ Ethiopia Custom and Revenue Authority, ,Automating Foreign Trade Procedutres• <u>http://www.erca.gov.et/index.php/aboutt#automationin-erca></u>, Last accessed December 10, 2017].

²⁵ Tilahun Lemmi Butta and Mekonnen Bogale Abegaz, ,Challenges in the operation of multimodal transport system: The case of Ethiopian shipping and logistics services entelliptissetional Journal of Applied Researchol.2 No.7, 2016, PP. 92932, at p. 927. [Here in after Tilahun and Mekonnen,Challenges in the operation of multimodal transport system

is landlocked country. Therefore, there is a need to have well facilitated foreign trade regime in order to use the opportunities at hand at the possible lower cost.

Regarding to the solution UNDP among others has recommended Ethiopia to give emphasis for the development of the logistics setter and financial transactions. Traditionally, all the documents serving the international trade which includes the contract itself, sales confirmation, purchase confirmation, commercial invoice, and letter of Cr,bill of lading (marinebill of lading, multimodal transportbill of lading, airway bill, and FIATA bill of lading) are interchanged manually. Hence, one who wants to import or export has to process all these documents manually which cost him too much energy, money, manpower and also with low efficiency and high error possibility.However,as we are living in the age of information technology in which everything is subject to technological application, international trade is digitalized. Recently, as mentioned under the background there are some government action towards digitalizing international trade transaction. This shows there is a move towards paperless trade which includes shipping documents.

As mentioned on the background, Ethiopia is using plaip ef lading though there are actual tendencies towards digitalizing it. However,

- 1. So far in Ethiopia, nothing is scientifically known as to whether there is an actual need to digitalize ill of lading or not?
- 2. There is also concern regarding the legal recognition or scope of recognition of electronic fill of lading in Ethiopia.
- ðü The caseunder the multimodal transport of goods proclamation. If argued it is recognized, there are worries about its insufficiency owing to the absence of detailed regulation.
- ðü The case under the Maritime Code, customs law and security law of Ethiopia
- ðü The caseinder the contract law: whether our law leaves the possibility of issuing electronic of lading within the framework of contractual autonomy.
- 3. There are concerns regarding the main issues that a law dealing with electronic bill of lading need to incorprate, upon the introduction of electronic did of

²⁶€National Logistics Strategy,, Available at

http://www.et.undp.org/content/ethiopia/en/home/library/poverty/natilogistics.strategy.htmb, [last accessed on December 20,2018].

lading Accordingly, the researcher conducted the study to address the above mentioned concerns.

1.3. Objective of the Study

1.3.1. General Objective

The primary and principal objective of the study is to investigate the need for introducing electronibill of lading and regulation of it.

1.3.2. Specific objectives

- ðØ To explore whethethereis a need for introduction of electronic bill of ladiing Ethiopia or not?
- ðØ To analyze and examine legal issues that need attention up on the introduction of electronic of lading.
- ðØTo examine whether policies and laws in Ethiopia are able to accommodate electronic bill of lading.
- ðØTo examine the possible regulatory remedies from the international recommendation that allows wellnctioning of electronic of lading and to propose lesson for Ethiopia.

1.4. Research Questions

1.4.1. Main research question

The research is conducted to address the following interconnected esearch questions.

- ðv Should Ethiopia introduce electrorbid of lading?
- ðv If yes, how should the country regulate

1.4.2. Specific Research Questions

- ðv Are there factors that necessitathe introduction of electronizabili of lading in Ethiopia? If so, what are they?
- ðv What are the possible challenges of recognizing electrovitlicof lading in Ethiopia?

- ðv What are the legal issues that need attention up on introduction of electronic bill of lading?
- ðv Does the current legal environment adequately recognize and regulate electronic bill of lading?
- ðv What lessons should Ethiopia dránom the international recommendation on regulation of electronibill of lading?

1.5. Literature Review

To the best of the researcher knowledge; because of the fact that the concept of electronic of lading is not yet developed in our country, so far there is no any study conducted on the regulation and recognition of it. How there are writings regarding the general legal status of electronic business transaction in Efficiencia not addressed the issue at hand. Nevertheless, at the international level there are many writings on the regulatory aspects of electroic flading.

1.6. Research Methods and Methodology

1.6.1. Research Design

For properly addressing the research questions and objectives, the researcher employed qualitative research approach; as it is preferable due to the nature of the study; which needs acquiring deep informationmfrom informants and deep legislative and secondary source analysins addition, its high degree of flexibility makes it suitable and better. Moreover, it is also more suitable to analyze data that is gatheed through an interview as well as the analysis of legal and other texts that will be relevant to my study.

From qualitative research approach, the researcher used both doctrinal and empirical research type. By employing doctrinal research, the research type ad the existing domestic and international legislations, soft laws and scholarly writings to addres

²⁷Gebrehiwot Entehawu, The LegalFramework for Electronic Contracts in Ethiopia with Special Emphasis on General Contract LaW...M thesis, Addis Ababa University, School of Law, 2013, [Unpublished, available online]. [Here in aft@ebrehiwot Entehawu, The Legal Framework for Electronic Contracts in Ethiopia with Special Emphasis on General Contract] Lawd Tigist Ashenafi, The egality of Ecommerce and Esignature Under Ethiopian LawkL...M thesis, Addis Ababa University School of Iaw, 2017, [unpublished, available onli[heptrein after, Tigist Ashenafi, The egality of Ecommerce and Esignature Under Ethiopian LawkL.M thesis, Addis

the second centradesearchquestion Empirical research type was employed to look into the practical challenge of paperil of lading and the needofr the dectronic counterpart; which is to address **fire**t central research question

1.6.2. Data Sources and Gathering Methods

The researcher has used both primary and secondary sources of data. As a primary source of data, the researcher used interprodomestic laws, international binding legal instruments and soft laws. As secondary source the researcher used books, official government and nogovernmental organization reports, journal articles, working papers, archival documents, master the BisD. dissertation, electronic sources and other available and relevant domestic and foreign literature regarding the issue at hand.

The participants of the study were personn from Ethiopia Shipping and Logistics Service Enterprise, Ethiopia Maritime Aiffa Authority, Commercial Bank of Ethiopia, Ethiopia Customs and Revenue Authos Stylo International Shipping and Freight Forwarding Agent MACCFA Fright Logistics, the Ethiopia Electronic Single Window Project, Ethiopian Petroleum Supply Enterprise findighters International (PABOMI). To select these participants, the researcher employed purposive sampling which is based on the participants• experience, position, expertise, and other attributes to acquire general information which are vital to address the research questions of the study. This is because of the fact that in case of purposive sampling, sample can be built up in such a way that entibeles researchet satisfy my specific needs in the study. In collecting data, the researcher employed semi-structured interview. Because it is modest for research participants who are professionals as well as who has prior knowledge on the issue. Regarding the sample size, the researcher took more participants until the criterion of redundancy is met.

1.6.3. Data Analysis Method

The data gathered through both primary and secondary sources was analyzed by employing qualitative data analysis method. The researcher employed the accepted steps of qualitative data analysis process; which includes dataar**phiep**, familiarity with the data, interpreting the data and finally verification of the data.

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1.7. Significance of the Study

This research is useful to the law maker and policy designer to appreciate the need of amending or enacting new laws which revize and properly regulate electronic bill of lading as the transportation document equivalent to traditional papeerd bill of lading in international business transaction.

Over and abovet can provide a new insight for those who have interest on the subject matter. Specifically, by providing sufficient knowledge and understanding aboutimportance of electronic fill of lading and itspossible Ethiopia.

1.8. Scopeand Limitation of the Study

The study focused on the recognition and regulation of electroichic lading under Ethiopia legal regimeBy electronic of lading, the study is only limited to the marine bill of lading. In doing so, it addressed the major theoretical and legal deliberation on recognition and regulation of electrobilic of lading in Ethiopia. Besides, this thesis analyzed international recommendation on regulation of electronic bill of lading to draw possible lesson for Ethiopia.

The major limitation the researcer faced while conducting this research were time constraint and lack of studies in relation to carriage contractional lading in Ethiopia. In addition, the fact that Ethiopia is undernartial law has affected the researcher while browsing materials from internet.

1.10 Organization of the Study

In order to address all the objectives and to answer all the research questions of the study, the paper is structured into five chapters first chapter is general introduction of the study; which includes background of the study, statement of the problem, objectives, research questions, literature review, research methodology, significance, scope and limitation and organizational structure of sturdy. The second chapter deals with geneconceptual framework abobtl of lading and introduction of electronic of lading in Ethiopia. Chapter three deals with legal issues of electronic of lading and analysis of the Ethiopiaegal environment in light of its compatibility for introducing electronic of lading. Chapter four of the paper deals about how electrobid of lading is regulated under the UNCITRAL

Model Laws and the possible lesson to be drawn for Ethiopia. The last chapter is conclusion and recommendation

CHAPTER TWO: CONCEPTUAL FRAMEWORK OF ELECTRONIC BILL OF LADING IN GENERAL AND ITS INTRODUCTION IN ETHIOPIA

Introduction

In order to have dogical analysis of electronicial of lading a thorough understandig of traditional papebill of lading is necessary. Accordingly, this chapter bring into the light about documents used in the international commercial transaction, transport documents and its type that the bill of lading is, historical development obill of lading regulatory regime, function and types obill of lading problems of the traditional paper of lading and solution to alleviate such problem. The second part this chapter address development of an electronic bill of lading in the international commercial ransaction. The third part of this chapter is dedicated to address bout the introduction of electronic bill of lading in Ethiopia foreign trade regime.

2.1. Documents Usedn the International Commercial Transaction

In the international commercial transaction cargo cannot cross national boundaries without passing extensive documentation process. **Assualt**, sometimes cargoes may not reach to the proper destination for lack of the right documents at the required time. Most of those documents are necessary documents in order t**a paopeer** international commercial transaction. Those **undoe**nts are generally grouped in three broad categories. The first group of documents isalled commercial documents which can be exchanged as between the buyer and the *s*²el/emong others commercial document **include** equestfor quotation, Performa invoice, purchaseorder, acceptance and **br**firmation, the contract itselfand commercial invoice.³⁰ The second category of documents banking documents in which the process of paying and being paid is to be conducted. In this regard unlike other

²⁸ C. Rama GopalExport Import Procedures: Documentation and Logistits ed., New Age International(p) Limited Publisher, New Delhi, India, 2008, PP. 13. [Herafter, Rama Gopal, Export Import Procedures: Documentation and Logistics
²⁹ Ibid.

³⁰ €Commercial Transaction Documentat <

http://instruction2.mtsac.edu/rjagodka/Importing_Information/DOCUMENTATION_Guid [df last accessed March 28, 2018].

modes of payment, paymenthrough Letter of Credit requires more complex exchange of documents. Those documentapaptiecation for Letter of Credit, Letter of Credit, Advice of Letter of Credit and Drafts^{3,1} The third category of documents aretransportation and isurance Documents. The very purpose of those documents is to keep path of merchandise as it passes from one hand to another another one that the goods are not delivered to someone who is not entitled extive it. As the concern of this thesis is ill of lading as one transport document the next section deals withtransport documents.

2.2. Transport Documents

In case of International commercial transaction sellers and buyers are located in different countries and even the goods which resubject to the transaction may not be in the hand of sellerather it may be in another country. As a result, transportation of goods and on time delivery according to the trade terms of an conditions is required for an effective commercial transaction international commercial transaction after agreement has been made between seller ad buyer upon terms and conditions of the corract, they proceed the other important steps in the transaction, such as transportation, insurant export and export clearances, preparing ertifications of origin and administrative and commercial processes³.

International sales antdansport contractare differentin terms of liability and documentation. International transport contracts, unlike sales contract which is characterized by freedom of contract, is governed by mandatory statutes detailing procedures and responsibilities of the transport approcess⁴. They are mostly subject to strict regulation either by national statutes or international conventions. However, unlike transport contracts of a sales contract are oluntarily

³¹ Rama GopalExport Import Procedures: Documentation and LogistRc26.

³² United Nations Conference on Trade and Dopment The Use of Transport Documents in International Trade 2003, P.6. [Here in after, UNCTADThe Use of Transport Documents in International Trade

³³Marek Dubovec, The problems and possibilities for using Electronic Bills of Lading as Collateral•, Arizona Journa of International & Comparative Law2006, Vol. 23, No. 2PP.437466, p. 438. [Here in after, Marek Dubovec, the problems and possibilities for using Electronic Bills of Lading as Collateral]

³⁵ Id., P.438

agreedbetweenthe buyers nad sellers^{3,6} There are three kinds of transportand transport, maritime transport a naid transport Accordingly, either by the seller or the buyer arrangement the goods can be transport dout the transport of these this transportation of goods involvelese use of transport dout nents^{3,7}

Transport documentis defined in Article 1(14) of the Rotterdam Rules **f** document issued under antroact of carriage by the carrier that: (a) evidences the carrier•sor a performing party•s receipf goods under a contract of carriage; and (b) evidences or contains a contract of carriage/ewever, it does not mean that all transport documents have the function of being evidence for receipt of carges and contract of carriage. Therefore, this definition is limited **dody** hose documents which are commonly regarded as nonegotiable transport documents are documents issued by transport operators like hipping line, Airline, International Trucking Companies, Freight forwarders, Rail way Operators, Logistics Companyor their agents⁸. Depending on the type of transport the parties agreed to use, there are many period for transport documents employed by the transport industry Transport documents among others required to serve as bearer of the information regarding the ansport and bout the terms and conditions to be applicable.

2.2.1. Road and Rail Transport Documents

In case of road transpoft, MR Note issued as the main transport document across the world.CMR Note is an international consignment note used by et is yoperators and forwarders which governs the responsibilities and liability of the parties to a contract for the carriage of goods by roat t is a consignment note with a standard set of transport and liability conditions. CMR Note is an evidence which confirms that the carrier has received the goods and that a contract of carriage exists between the trader and the carrier for the carrier for the carrier for the goods and that a document of titles it does not

³⁶ Marek Dubovec, the problems an possibilities for using Electronic Bills of Lading as Collateral p. 439.

³⁷lbid.

³⁸ €Transport Documents Used in International Trade,,, at <

http://www.globalnegotiator.com/files/Transp@bcumentsUsedIn-InternationalTrade.pdf>, [last accessed, March 28,2018].

³⁹ €Transport Documents,,, ath<u>tps://logistics.public.lu/en/formalitigsrocedures/required</u> <u>documents/cargdocuments.htm</u>≱,[last accessed, March 26,2018]. ⁴⁰ Ibid.

necessarily givets holderor the carrier rights of ownrehip or possession of the goods.

If the mode of transport isail, Rail Consignment Note (CIM)s to be usedRail Consignment Notes a document governed by the 1980 Convention concerning International Carriage borail (COTIF-CIM). It is issued by the carrier and is considered as the rail carriage contract. This document is rances ferable and is not requested upon arrivation the road and rail consignment note are digitalized. The digitalization process is not as uch difficult by the fact that both documents ane negotiable document and no need of having the original consignment note at the disposal port.

2.2.2. Air Transport Documents

In case of air freight, it is their waybill which serves as transport document airwaybill is a contract of carriage betwee the shipper and the cargo carrier and it is issued by the air carrier and serves as a receipt for the shipper waybills are a nonnegotiable document and cannot be issued as decument of title⁴² The International AirTransportAssociation has implemented electronic air will require the fulfillment of certain conditions; among other shipper and the cogsee must sign MC99³ agreement. Moreover the electronic version of the standard electronic waybill must be accepted by the domestic custom authority.

2.2.3.Non-NegotiableMarine Transport Documents

In the ancient societies there was not eed of documentation of goods shipped on the vessel due to the fact that erchants either owned the vessels themselves or they accompanied the goods till sold at the destination. As far as there is close control

⁴¹ Belay Seyoum Export Import Theory, Practices, and Procedure Second Edition, Taylor & Francis New York, USA, 2009, p.197. [Here in after, Belay Seyoum, Exponent Theory, Practices, and Procedure

⁴²Id., p.198.

⁴³ Montreal Convention 1999

⁴⁴ Shoaib Bakhtyar and Jan A. Perss, EnWaybill Solutions and Connections to ITS Applications: Preliminary Analysis•, Blekinge Institute of Technology2015, p.8. [Here in after, Persson, E Waybill Solutions and Connections to ITS Applications: Preliminary Analysis

⁴⁵ Farhang Jafari The Concerns of the Shipping Industry Regarding the Application of Electronic Bills of Lading n Practice Amid Technological ChangehD Dissertation, University of Sterling, 2015, [Unpublished Available at university of Sterling Repository], p.12. [Here in Ethenang

of the ships by the merchants there is no **rfeed**ocumentation. However, due to the increase it hevolume of trade their routes were extended. As a reiswlas not practically possible for the merchant to remain physically present on each ∜ôyage. This brought about the separation of merca**friden** carrier servicesConsequently, the shipping and mercantile community employed many transport documents to alleviate such problem. The secuments among others incluMate Receipt, Sea waybill, Delivery order or warranty, Charter Parties, Booking Note Binldof lading

2.2.3.1. Mate Receipt

Mate Receipt is a document which acknowledge fact that the carrier has received the goods orboard.⁴⁷ Subject to the terms of the mate receipt decument may be evidence of the condition to goods when receive However, it is not necessarily evidence of a contract of carriage though it is an evidence of a bailment. It is not negotiable or a document of title with the exception of particular circumstances such as by custom of a port or the document.

2.2.3.2 Sea Waybill

The second marine transport document is as waybill. It is a document which evidences responsibility the carrier to theonsignorin order todeliver the goods to be transported br the person who is entitled to have⁵¹ itThe sea wayill only serves as a receipt for the goods and deence of a contract of carriage; unlikelil of ladingit is non-transferable and is not a document of fittener is no need for the waybill to be tansferred to the port of release, it can remain in the hands of the transporter and the consignee does not need to present the waybit to be tansferred to the port of release.

⁴⁸ Alan Mitchelhill, Bills of Lading: Law and Practic Second edition Springer Science Business Media, B. V., Bristol, England, 1990, p. 52. [Alan Mitchelh Bills of Lading: Law and Practige ⁴⁹ Ibid.

Jafari, The Concerns of the Shipping Industry Regarding the Application ctfromlec Bills of Lading in Practice Amid Technological Chaejg

⁴⁶ Id., p.13.

⁴⁷ Rama GopalExport Import Procedures: Documentation and Logistics0.

⁵⁰ Ibid.

⁵¹ Diana Faber, ,Shipping Documents and Electronic Data Exchabage, Computers & Artificial Intelligence 1993, Volume 2, Number 1, p.234, p.24. [Here in after, Diana Fabeh, ipping Documents and Electronic Data Exchahge

⁵² UNCTAD, The Use of Transport Documents in International Trade.

goods Mere identification of himself is sufficient⁵³ However, the sea w**bi**/il text maybeneeded by customs, brokers or other authorities is very paramount in circumstances where a single company might does for ingoods between its own international locations and payment for exports is not required to be ⁵fn **See**. waybill cannot be used when there is **ploss** sibility of a sale of the goods/hile they are in transite.⁶ In addition, seawaybill would be important f therewere no letter of credit is in place or where the partices ationship is close and documentary security is not required⁷⁷ Sea wabill is not expressly covered by the Hague and Hague Visby Rules though some domestic legislations gave recognition for it. Secillway doesnot have legal ecognition under the Ethiopia law by the fact that Etheciopia maritime code is the replicate of the Hague and Hague Visby Rules

2.2.3.3 Delivery Order

The third marine trasport document is Delivery Orde#/arranty.Deliver Orderis defined as €written order by the shipper that names the party to whom delivery is to be made.⁵⁸₇₈ Delivery order becomsemportant when a buyer of a bulk cargo wishes to sell different portions of the cargo to different buyæmshe wishes to provide a devicewhereby the rights and obligations as to delivery of those portiansbe protected⁵⁹ It is in a case when the seller in the course of the voyage sells parts of the cargo to a number dffferent buyers⁶⁰. In this case the sellerafter surrendering the original bill to the carrierasks in return for a ship's delivery order for each parcel of cargowhich he has sol⁶¹. Afterwards, the delivery orders will be passed the individual buyers and they will pay for their parcels and they present the det yiv

⁵³ Boris Kozolchyk, Evolution and Present State of Ocean **&**fillading from a Banking Law Perspective Journal of Maritime Law and Commerct 992, Volume 23, No.2, PP. 1645, p. 216. [Here in after, Boris Kozolchyl Evolution and Present State of Ocean to flading from a Banking Law Perspective

⁵⁴ Ibid.

⁵⁵ Diana FaberŞhipping Documents and Electronic Data Excharge24.

⁵⁶ UNCTAD, The Use of Transport Documents in International Trade25.

⁵⁷ Ibid.

⁵⁸ Commercial Transaction Documents,,, at <

http://instruction2.mtsac.edu/rjagodka/Importing_Information/DOCUMENTATION_Guid of df last accessed March 28, 2018].

⁵⁹ Richard Aikens, Richard Lord and Michael D.Bo**dsi**l of lading, Second ed., Taylor and Francis, Publisher London, England 2015, pp 29. [Here in afterichard Aikenset al, Bill of lading].

 ⁶⁰ Diana FaberShipping Documents and Electronic Data Excharge5.
 ⁶¹ Alan Mitchelhill, Bills of Lading: Law and Practice.53.

orders to the arrier and will obtain the goods at the discharge post. Delivery order is recognized and defined under the 1960 Maritime code of Ethiopia.

2.3. Bill of Lading

2.3.1.Origin and Historical Development of Bill of L ading

Bill of lading is the oldest transport document which may trace back to the age of commerce and it is commonly defined through its functions sources of origin of bill of lading are statutory laws regulating of lading, case laws involving ill of lading surviving copies of earlybill of lading and merchants• practiceshe translations of clay tablets excavated ound Near Eastuggests that theil of lading has existed in a distinguishable formatis far back as Babylonian timetshoughits existence has not been proved conclusive Moreover, during the Romam price, there is also an evidence which showed **Bilatof** lading was used by the usiness community. However, though the are divergent views regarding proper birth pace of modernbill of lading, it is agreed that was born in the Eleenth Century in Europe because of the surgeof the commercial cities diffediterranean⁶⁵ Since the rise of the Mediterranear commercial cities there was a high flow of shipment of goods fromport to port, which in turn lead to disputestween shippers and the ships' masteras to what goods had been delivered on boacobnsequently, this fact necessitates vidence of delivery and statutes were passed by various cities of 1063A.D. Thestatutes requirevery carrier to have a clerk who was bliged to take an oath of fidely, and to enter in a parchmetrotok or register a record of the goods received from the shipperThese registrations were required to be made in the presence of thenaster, the shipper, and one orthweitness and the statute provided that this register should be widence of the receipt of the good s. he first

⁶² Alan Mitchelhill, Bills of Lading: Law and Practice.54

 ⁶³ Maritime Code of the Empire of Ethiopia, 1960egarit GazettaExtraordinary Issue, Proc. No. 164, 1⁽¹⁾ Year, No. 1 Article 195. [Hereinafter, Maritime Code of the Empire of Ethiopia].
 ⁶⁴ SamanthaPeel The Development of the Bill of lading: Its Future in the Maritimetustry PH.D. Thesis, University oPlymouth 2002,[Unpublished, availablet <u>http://hdl.handle.net/10026.1/40</u>,7 PP. 47. [Here in afterSamantha Peel, he Development of the Bill of lading: Its Future in the Maritime Industry].

⁶⁵ Ibid.

⁶⁶ Chester B. McLaughlin, Jr, The Evolution of the OceaBill of lading•, 1926, The Yale Law Journal, Vol. 35, No. 5, pp. 54870, p. 554. [Here in after, McLaughlin, JT.he Evolution of the OceanBill of lading].

⁶⁷ Ibid.

⁶⁸ McLaughlin, Jr, The Evolution of the Oce**Bi**ll of lading, p.555.

recorded evidence of the lading which has the features of preseday bills of lading can be traced bacto the 15th century transaction of wheat the sported to Alexandria, Egypt⁹.⁹ This recorded bill of lading has most of the qualities of the present data bill of lading; as it has the ecceipt function, details of goods shipped and a promise on the part of the carrier to carry and deliver the goods to the agreed destination⁷⁰

Until sixteenand seventeenttrentury, bill of lading only served asseceiptof goods asthe number of cargoes per sloips too small hebill of lading need noto perform a contractual evidence function.⁷¹ During the sixteenth and seventeenth centuries, when it became difficulto enter a charter party with every ship beilts were issued that contained the contract of carriage Most importantly, by the eighteenth century, the bill of lading recognized as negotiable by endorsement to address the needs of those merchants who wished to dispose of their goods before the vessel reached its destination? This function set apabill of lading from the other shipping documents and enchantability of goods in transit was made possible heymere act of endorsement and delivery.

Regarding the regulatory development boil of lading, it has passed through different stagesDuring the medieval period, it was regulated by statutesty of c states. After seventeenth century case laws were developed in Eaglahroodher common law countriesThe first national state which enacted legislatiorbidnof lading is the USA, which is Harter Act of 1893⁴. At the international level, the first international conference for the creation of a uniformaterinational system to regulatebill of lading was held in The Haguein 1921 and the Maritime Law Committee of the internationalLaw Association drafted the rules.

However, although the intention office committee was to make this rule as a guideline to beadopted voluntarilyby the shipping communities, it was tho

⁶⁹ Farhang Jafari, The Concerns of the Shipping Industry Regarding the Application **ctoo** file Bills of Lading in Practice Amid Technological Change, **pp**.

⁷⁰ Ibid.

⁷¹ Richard Aikens et aBill of lading, p. 8.

⁷² Ibid.

⁷³ Wilson, Carriage of Goods by SeP. 1.

⁷⁴ Daniel E. Murray, History and Development of the Bill of ladinge, niversity of Miami Law Review 1983, Volume 37, Issue 3, PP.678392, p.703. [Murray, History and Development of the Bill of lading].

practicable^{7.5} As a result, there was a need to make it obligatory and International conference was held in Brusse**T**s that end The Haguerules become compulsory and reenacted alsternational Convention for the Unification of Certain Rules Relating to Bills of Ladingin 1924⁷⁶These rules were adopted throughout the world for forty years.

However later on due to its limited areas of cogerand its limited protection given to cargo owner, authernational conference held in VisbySweden, amendments were made to The Hague Rules and the amendment is incorporated Brussels Protocol of 1968; which is called The Hagukeisby Rules⁷⁷ However, many developing countries sensed tthate HagueVisby rules did notaddresed the legitimate concerns of cargo owners or shipp Ass a result, the Unite Ulations Commission on International rade Law (UNCITRAL) was given the task of drafting a new conventior finally in 1978 it come up with new convention called Hamburg Rules⁸ Neverthelessit came in to practice fter 10 years of its enactment. But, still there were problems which are not addressed by the Hamburg Midst importantly an evolutionary modernization of transport practices like containerization, doeto-door transport contracted the use of lectronic transport documents necessitated a new international legal framework on carriage of goods by sea⁷⁹ Consequently, the UNCITRAL working group on transport law come up with United Nations Convention of Contracts for the Internation Darriage of Goods Wholly or Partly by Sein 2009. However, this convention is not verningin to practice as the requiredumber of ratification is nothet.

⁷⁵Boris Kozolchyk, Evolution and Present State of Oce**Bil** of lading from a Banking Law Perspectivep. 194.

⁷⁶ Ibid.

⁷⁷ Ibid.

⁷⁸ Boris Kozolchyk, Evolution and Present State of Oce**Bill** of lading from a Banking Law Perspectivep. 194.

⁷⁹ Meltem Deniz Gu"neO"zbek,The United Nations Convention on Contracts for the International Carriage of Goods Wholly or Partly by Sean Appraisal of the •Rotterdam Rulesst ed., Springer, Heidelberg, Germany, 2011, p. [5] lerein after,Meltem Deniz An Appraisal of the •Rotterdam Rules

2.3.2. Definition and Function of Bill of Lading

Before proceeding to deal about the functionbidlfof lading, it is better to see the literal and legal definition obill of lading from different sourcesAccording to Richard Aikens and et al €[4]e an elephant, bill of lading is generally easier to recognize than to define and mostly it is defined in terms dis characteristics. However, it does not mean that it has no literal as well as legal definition the set at a back to be a set at a back to be a set at the set at the

document acknowledginghe receipt of goodsyba carrier or by the shipperaspent and the contract forthe transportation of thosebods; a document thatdicates the receipt of goodstor shipment and that issued by person engaged time business of transporting or forwarding goods

According to this definition bill of lading is only an evidence for contract of carriage and receipt of goods. This definition does not address the third function bid fof lading that is serving as adocument of title. Therefore, for this paper, it is not afulfilled definition rather only limited to the non egotiable bill of lading. An American judge Mr Justice Clifford says that its of lading is "

a writtenacknowledgment signed by the master that he has received the goods therein described from the shipper, to be transported on the terms therein expressed to the described place of destination and there to be delivered to the consignee or parties therein designated.⁸²_n

This definition gave emphasisfor the receipt function of bill of lading nothing is stated as to its function as evidence of contract. However, the define, parties therein designated lus that this definition includes the third function bill of lading that is being a document of title.

Coming tothe international instruments regulatibility of lading, both TheHague and Hague/isby rules donot define whatbill of lading is. However, the 1978 United Nation Convention on the Carriage Goods by Sea (Hamburg Rules) unlike its predecessors dise bill of lading as follows.bill of lading means

document which evidencescentract of carriage by sea and the taking over or loading of the goods by thearrier, and by which the carrier und tearkes to deliver the goods against surrender of the document [and has] rovision in the document that the goods

⁸⁰ Richard Aikens et aBill of lading, p.24.

⁸¹Blackfs Law Dictionary9th ed.s.v. "Bill of lading.€

⁸² W. P. Bennett, The History and Present Position of **tBë**l of lading as a Document of Title to Goods 1st ed., Cambridge University Press, England, 1914, pp. 79. [Here in **Bten**, ett, The History and Present Position of t**Be**l of lading as a Document of Title to Godds

are to be delivered the order of an amed person or to order, or to be are r, constitutes such an undertaking 33

The first sentence of the above definition addresses the orthodoxy fundbildhobf lading that is function as vidence for contract of carriage and receipt of goods. Moreover, the phrase.to order or to bearer. from the second sentence tell us that, it can be negotiable which in effect serve as document of **Title**. United Nations Convention on Contracts for the International Carriage of Goods Wholly or Partly by Sea gave definition for the whole marine transport document no specific definition is given for bill of lading. Henceforth as bill of lading is the main marine transport document, the definition given for transport document is inclusibile of of lading Transport document is defined as a document issued under a contract of carriage by the carrier that evidences the carrier so adjust the field of goods under a contract of carriage and evident document to negotiable and nonegotiable transport document. By doing so, it acknowledgies of lading as a document of title.

From the above given definitions, it is fair to deduce **bilao**f lading is an evidence for contract of carriage eccept of goods by the carrier and acument of titleto goods.

2.3.2.1.Bill of L ading as Evidence of Contract of Carriage

Despite the fact that theredifference on the content of the contract of carriage jurisdiction to jurisdiction it is commonly understood thatomise totransportand to deliver the gods given by the ship-owner constitutes the essential of every contract of carriage. This rights and obligations are dedenced by a bill of lading.⁸⁵ A paper bill of lading in its complete form has contract clauses printed on the back of the paper docume to the terms and conditions on the reverse side of doild ry of lading can provide evidence of contract of carriage but does not constitute as

⁸³ United Nation, United Nation Convention on the Carriage of Goods by (Steamburg Rules), 1994, Article 1(7). [Here in after, United Natidramburg Rule]s

⁸⁴ United Nation, United Nations Convention on Contracts foe **In**ternational Carriage of Goods Wholly or Partly by Seathe Rotterdam Rules), 2009, Article 1(14). [Here in after, UN, Rotterdam Rules].

⁸⁵ United Nations Commission on International Trade Law Working Group on Electronic Data InterchangeSecretariat bite onElectronic Data Interchange/ienna Austria, 1996, pp.10. [Here in after UNCITRAL working Group on Electronic Data Interchange, Electronic Data interchange]. ⁸⁶ Ibid.

contract of carriage itseff. The contractof carriageis in normal circumstance concluded orally before theill of lading is issued. Here it is good to know that if the goods arrest or damaged beforeball of lading is issued and also if therms of the bill of lading do not comply with those of the earlier oral agreent themshipper will not be deprived of a reedy for breach of contract ther he /she can prove by producing oral evidence to establist heterms of that agreement.

The other issue regardining of lading function as evidence of contract is the fact that whether it servees an evidence for the neutract between the carrier and third party endorsee. Generally, the third paetry dorsee is considered to be a good faith purchaser of the goods mentioned in billeof lading on the terms and conditions mentioned in that⁸⁹ As a result, any variation the actual contract between the carrier and the shipper vould not affect the bona fide endorsee. The very oral contract between the carrier and the shipper at the time of sailing daemaised as a defense unless it is properly included or bill ading⁹¹ Therefore, a it of lading itself is an exclusive evidence of the contract between the carrier articlird party endorsee? However, incase of charter party contrabtll of lading is not an evidence of the contract between the issuer and arterparty ratherevidence of a contract between the parties.

2.3.2.2.Bill of Lading as Evidence of Receipt

As a matter offact, the receipt function is the primary function of any transport document Likewise, from the inception obill of lading itself, the very purpose of bill of lading was to serve as allment receipt which was required to obtain delivery of the goods at the port of dischar Biel of lading has three receiptunction though

⁸⁷ Wilson, Carriage of Goods by SeP. 27.

⁸⁸lbid.

⁸⁹Farhang Jafari, The Concerns of the Shipping Industry Regarding the Application of Electronic Bills of Lading in Practice Amid Technological Change, pp.66.

⁹⁰Krailerk Euarjaj International Carriage of Goods by Sea: Problems in Bills of Lading and Their Impact in Australia and its Major Trading Partners in Asla...M Thesis, University of Tasmania 1999, [Unpublished available at], p. 53. [Here in affergilerk Euarjai, International Carriage of Goods by Sea: Problems in Bills of Lading and Their Impactustralia and its Major Trading Partners in Asia

⁹¹Ibid.

⁹²Farhang Jafarī, he Concerns of the Shipping Industry Regarding the Application of Electronic Bills of Lading in Practice Amid Technological Changp.67. ⁹³Id., pp.65.

there is some difference regarding details of each function between the common law and The Hague and Hag Vies by rules.

The first function is;it is a receiptas to quantity.Under the common law legal system, thebill of lading is prima facie evidence of the weight or quantity of good shipped⁹⁴ Here, the carrier has the burden of provintigat the goodstated in thebill were not shipped which very difficult and unlikely to prove the otherwise as he is required toclearly establish that the goods were not in fattipped⁹⁵ Under the Hague Rules; t is upon the shipper request that the carrier issue fail of lading describing the quantity of the goods to be shipped berefore, the carrier is not obliged to issue fail in order toacknowledge quantity of cargeshipped as far as he is not required to do softbye shipper

The same position is taken by the Ethiopia maritime **same** the source of Ethiopian maritime law is The HagueuRes. As per article 183(1) of the 1960 maritime code of Ethiopia. Bell of lading shall show.. the number of packages, and objects, or the quantity or weight of the goods, in accordance with the particulars given by the shipper in writing beforeshipment,⁹⁷ Like what is stated under the Hague rules, a prior request by the shipper **is** quired. Generally, under both circumstance, she signature of the carrier on the time is enoughto proof of the goods shipped.

The second function is receipt as to the condition quality of the goods shipped. Goods shipped anenostly provided with a statement as to the parent order and condition of the good This statement is among the central elemebilities flading. The problems how apparent it is What is mostly agreed under both the common law and the civil law legal system is that is sufficient the carrierhas afrank belief on the accuracy of the tatement and this belief is the one that could be taken by reasonably carrier.⁹⁸ Therefore, the carrier or his agents required to judge by a reasonable outward inspection the absolute accuracy of statements inder the Ethiopian maritime code the reasonable man standard measurement is adopted.

⁹⁴Wilson, Carriage ofGoodsby Seap. 118 ⁹⁵ Ibid.

⁹⁶ Wilson, Carriage of Goods by Sepa, 120.

⁹⁷ Maritime Code of the Empire of Ethiopia, Article 183(1).

⁹⁸ Wilson, Carriage of Goods by sepp., 121122

⁹⁹ Maritime Code of the Empire of EthiopiArticle 183(3).

Both under the common law as well as The Hague/ Hague Visby states ments as to the condition in which goods re shipped are prima facie eviderfoe the shipper and become conclusive evide **Date** the transferred to the ands of a good faithholder of it.¹⁰⁰

Thirdly, bill of lading is a receipt as to the leading markeading marks are the idenity or description of the good For the identification purpose and tistatements in the bill of lading has container numbers, serial numbers and other items, such as marks on the packagetc.¹⁰¹Both under the common law and the Hague and Hague Visby rules, sub statements haverima facie evidence against the carrier and conclusive evidence when theil is transferred to the good faith holder of the Despite the fact thateceipt function is a common function of every transport documentsit would become verymportant in case doill of lading. This is due to the fact that the egotiability and sale for he goods in transidem and the production of the proper quantity, quality and condition of the goodshe ship¹⁰³

2.3.2.3Bill of L ading as Document of Title

As to what is to mean baydocument of title, there is no statutory definition given under any of international legal instruments governing carriage by sea in general and bill of lading in particular. As per the blackes law dictionadocument of title is defined as €written description, identification, or declaration of goods authorizing the holder ... to receive, hold, and dispose of theudreent and the goods it covers.¹⁰⁴ This definition has two elements; one thing it is a written **detila** of goods that representhe goods constructively second it is an authorization to dispose or otherwise of the goods and the document Bidebf lading recognized as a document of titie adecision made two centuries agohie case of Lickbrrow v Mason¹⁰⁵ Since then, the development of **thile** as a document of title has been

¹⁰² Wilson, Carriage of Goods by Sep. 126.

¹⁰⁰ Wilson, Carriage of Goods by sepp., 121122.

¹⁰¹ Farhang Jafari, The Concerns of the Shipping Industry Regarding the Application of Electronic Bills of Lading in Practe Amid Technological Change,49.

¹⁰³ Farhang JafariThe Concerns of the Shipping Industry Regarding the Application of Electronic Bills of Lading in Practice Amid Technological Change, 48. ¹⁰⁴ Blackes law dictionary, pp. 555

¹⁰⁵ Lickbarrow vs Mason [1794is a landmark case in the history of bill of laditor determine whether a Bill of lading has a document of title function or note case is litigated mothan six years in England and finally the court decides that by the custom of merchants the transfer of a Bill of lading always transfers constructipossession of the cargo to the transferee.

successful and it exercise tripartite role relation to the contract of carriage, to the sale of goods in transit, and to the raising of a financial d^{pe} dit.

Unlike other transport documents used in the international commercial transaction, the function of the bill of lading as a document of title is a unique featuret.off⁷ In addition to the shipper carrier relationship bill of lading through its function as a document of title produces effects in the context of the carrier/consignee and buyer/seller relations bi¹⁰⁸ The negotiability obills of lading came in to seen in sea transport due to the fact that the voyages were normally length slawd⁰⁹ The owners of cargoneed a document of title to sell be goods in transit and order to raise cred for an international sal⁶⁰.

The first role ofbill of lading as document of title is its function in the contract of sale. Indorsement and delivery of **tbill** of lading transfes ownership from the shipper to the endorsee. However, cording to Wilson, the fulfillment of the following conditions required¹¹ First, the bill has to be transferable on its face that can expressly deliverable to the ,order or assignt be coshipper or consignee. Second, the goods must be transit at the time of the nedorsement However, this does not mean that cargoneeds to a sea; rather it may be under the besession of a forwarding agent or carrier for the purposes of ageriand not yet be haled by the carrier who is entitled to deliver it to the portize posal. Third the bill must be initiated by a person with good title as an endorse extrains no better title than that held by the endorser. Fourth, then elorsement must be accompanied by an intention to transfer the ownership in the goods covered big in transational business entities located in different states.

Bill of lading by being a document of titlehas an important function financing contract of salelt is known that buyers and sellers have opposing and conflicting interests. In the normal course of things especially in the international trade

¹⁰⁶Wilson, Carriage of Goods by Sep. 131.

¹⁰⁷Torsten Schmitz, ThBill of lading as a Document of Titledournal of International Trade Law and Policy 2011, Vol. 10, Isse: 3, pp.255280, p.266261. [Here in atter, Torsten Schmitz], the Bill of lading as a Document of Title

¹⁰⁸ UNCITRAL working Group on Electronic Data Interchange, Electronic Data interchapge. ¹⁰⁹ Wilson, Carriage of Goods by Sea, pp. 130.

¹¹⁰ Ibid.

¹¹¹ Id., pp. 131132.

buyer wants to examinish goods as to whether they are in conformity with the sale contract or not before performing payment. Similarly, the seller also does not want to release the goods for transportation unless heaggoutaranty that the agreed contractual price will be job.¹¹²

Bill of lading as a document of title can reconcile this opposing and conflicting interest of the parties under international sales contract draw international trade banks have an important role in financing contract of sale through a system of documentary credits^{3,3}Though banks may have another security, the **gualantee** againstnon-payment of the credit entered by the buyettime possession of the seller of title to the goods in a documentary credit system eventual buyer requests his bandommonly called buyers bank open a credit in favor of the seller and. On the other side seller is also required to ship the contract goods and then to submit appropriate documents in the required form to the bank. According to Wilson bill of lading has very much importance in a documentary credit transaction. He stated **tatatt**he preliminary step the bank is able to check the information on **the** for granting the creditefore it makes any advance payment⁴¹⁵

Thus, statements on theill indicating the quantity and description of the goods shipped will be checked with the corresponding details on the sales invoice to see if there is any discrepanc^{1/2.6} Of equal importance to the bank will be t**de**te on which the goods were shipped, whether they were shipped in good order and condition and whether or not they were loaded on dteck.

Moreover, the banks also interested into attribute as a negotiable document of title. If the bill of lading is not negotiable, it cannot be able to provide the required security for the credit the bank has given. If it is negotiable, at the end of the day if the buyer fails to perform payment, the bank can control and own the goods through that

¹¹²Torsten SchmitzThe Bill of lading as a Document of Title.268.

¹¹³Wilson, Carriage of Goods by se**a**.133.

¹¹⁴Torsten SchmitzTheBill of lading as a Document of Title, 268.

¹¹⁵Wilson, Carriage of Goods by Sep. 135.

¹¹⁶€Bill of ladingFinancing, available at <<u>http://www.handybulk.com/bilbf-lading-financing</u>>, Last accessed, on march 20,2018].

¹¹⁷Wilson Carriage of Goods by se**a**. 133134.

negotiablebill.¹¹⁸ Therefore the function of bill of lading as document of title is central and pivotal in making the international trade more effective through financing international sale contract.

Thirdly, bill of lading through its function of a document of title has an important function to have an effectivearriage contracBill of lading as a document of title would impact right to control and right to claim delivery of goods. The right control and to claim delivery of goods cludesto stop the goods in trait, their withdrawal already at the terminal of departure, to unload, to warehouse or to reroute the goods, and to deliver the goods to some other person than the first consignee indicated in thebill of lading at any stage of the transit, as well ashteringe theplace of delivery of the goods¹⁹. This all rights are under the exclusive control of the consignor from the moment the carrier takes charge of the goods as far as the consignor retains all originals of theil of lading, the consignor loses that right of control and the one who has that origibial of lading can claim delivery of the goods as soon as they reach the place of final destination or can ordergahethin wants.¹²¹

2.3.3. Types oBill of L ading

Differentiating and identifying the different form **bil** of lading is very crucial to fully understand the function importance of the document itself and to appreciate and understand horal the elements inder those different forms can be converted into an electronic format. Despite the fact that there are widely practiced types of bill of lading across the world here is no single agreed list **bif** of lading rather there are regional and local ferences on the names afreatures of these ills of lading¹²²

¹¹⁸ Wilson Carriage of Goods by sep. 133134.

¹¹⁹ UNCITRAL working Group on Electronic Data Interchan Electronic Data interchang, p.11. ¹²⁰ Ibid.

¹²¹ UNCITRAL working Group on Electronic Data Interchangetectronic Data interchanget, 12.

¹²² Farhang JafariThe Concerns of the Shipping Industry RegardingAthelication of Electronic Bills of Lading in Practice Amid Technological Change24.

Bill of lading according to different needs of application can be divided into different categories²³ According to the nature of ittransferability bill of lading can be classified in to three astraightconsignedto order and bearbill of lading. Straight consignedbill of lading is regarded or not negotiable bill of lading; whereasthe lattertwo; to order and bearbills are negotiable or not, it cardboded into boardbill of lading and for shipmenbill of lading. Moreover, depending on the condition of the goods shipped bill of lading can be classified to clean and closed (unclean) bill of Laing. Furthermore depending on the orde of transport used and the centers of distribution, it can be divided in to direct, thorough and multimbid abf lading. Sometimes, it is also usual to find classification on the electrification and long formbill of lading. As the research is concerned on the electrification and attention for such process.

2.3.3.1.NegotiableBill of L ading

The orthodoxy presumption is that of lading is a transferable document as far as it is stated as negotiable by the shipper when drawing upbillh²⁴ Negotiable transport documenbill of lading is legally recognized under The Hague, Hague Visby, Hamburg and Rotterdam Rules owever, it is the Rotterdam Rules which expressly define as to what is to mean by negotiable flading.

It is defined as;

[t]ransport document that indicates, by wording such as €to order, or €negotiable, or other appropriate wording recognized as hat/megsame effect by the law applicable to the document, that the goods have been consigned to the order of the shipper, to the order of the consignee, or to bearer, and is not explicitly stated as being €non negotiable, or €not negotiable²⁵,

¹²³Classifications of Bill of lading, at <

http://resources.alibaba.c/topic/800027530/Classification_of_Bill_of_Lading.htm[last accessed, on March 30, 2018].

¹²⁴ Paul Todd,Principle of Contract of Carriage by Searist ed. Routledge London, United Kingdom, 2016, pp. 239. [Here in after all Todd, Principle of Contraof Carriage by Sea ¹²⁵ United Nations Convention on Contracts for the International Carriage of Goods Wholly or Partly by Sea, 2009Article 1(15). [Here in after, The Rotterdam Rules]. See allegget iable transport document, available at http://scm.gsom.spbu.ru/Negotiable_transport_document on March 22,2018].

As per this defition negotiable bill of lading can be to the order of the consignee, to the order of the consignor or to bearer. Besides, that document does not explicitly stated as being nonegotiable or not negotiable.

In Ethiopia both to order or toearerBill of ladingare recognized under the maritime code as well as the multimodal transport proclamation.

A. Order bill of lading

An order bill is a commonly usedbill of lading by the International marine community.Orderbill of lading is one where there is a description on the bill to a consignee of to his order or to consignee of this assigns.¹²⁷ An orderbill of lading may also be made where the consignee is simply a named person but other parts of the bill indicate a requirement to deliver to his order and/or or assigned for the fact that stipulation there as to be order or assigns of the consignee of the bill was it is or inablank.

B. Bearer or blank bill of I ading

Bearerbill of lading is abill in which there is no requirementor the carrier to deliver the good either to threamed consignee or endorsrather the carrier is required deliver it to anyone who holds the bill.¹²⁹ Commonly on the face of order or blank bill, there is an explicit mentioning of the words addearer of the document• without mentioning any name or threads, as to the order thereford? Bearer(blank) bill of lading is easily transferable and its a document of title. It can boen verted into another type doill by endorsement the holder^{1.31}

¹²⁶ Maritime Code of the Empire of Ethiopia, Article 189 alkdultimodal Transport of Goods Proclamation, 2007F, ederal Negarit Gazette Proc. No, 548, 1th3Year, No. 59, Article 6(1). [Herein after, Multimodal Transport of Goods Proclamatibio. 548].

[,] Article 6(1).

¹²⁷ Richard Aikens et aBill of lading, p. 33.

¹²⁸ Farhang JafariThe Concerns of the Shipping Industry Regarding the Application of Electronic Bills of Lading in Practice Amid Technological Chang **2**7.

¹²⁹ Id, pp.28.

¹³⁰ Farhang JafariThe Concerns of the Shipping Industry Regarding the Application Endergy Bills of Lading in Practice Amid Technological Change 7.

¹³¹ Richard Aikens et al, Bill of lading, p. 32.

2.3.3.2.Non- NegotiableBill of L ading

Non-negotiablebill of lading is commonly referred asseraightor nontransferable bill of lading Non-negotiablebills of ladinghavecommercial application where a negotiable document is not required bis is in cases where the identity of the consigne is known from the outset poods are not of a type that likely to be resold and also for shipping items that have already been paid? ON on-negotiable bill of lading is very important to lessen the risks of the carrier by the fact that consignee is the only person entitled to claim delivery at the port of discharge. However, unlike other non negotiable transport documents specially the waybill, the consignee is required to present it before the carrier in order to have the cargo.¹³⁴

2.3.3.3.Thorough Bill of L ading

In literature, we can also find that thoroughout of lading is named a stransshipment bill of lading. Thoroughout of lading is all-inclusive Bill of lading which allows for the shipping carrier topass the cargo through sever different distribution centers mostly in case of long ocean rout for Throughout of lading is mostly used where the main carrier undertakes to for a portion of the carriage another takes an arrangement for the remaining voyage. The main carrier manys for two arding agent for the remaining rout rout way carriage¹³⁶

Unlike, multimodalbill of lading, in case of thorougbill of lading, a single mode of transportation to be carried out by two or modifferent carriers and sub carriers¹³⁷ A thoroughbill of lading is negotiable and is accepted as a document of title. ThoroughBill of lading is recognized under the 1960 commerciade of Ethiopia. Acarrier who issues a throughill of lading shall alone exercise the rights and incur the liabilities arising out of the various stages of transit the completion of the sea carriag¹²?

¹³⁶ Richard Aikens et aBill of lading, p, 42, para. 2.76.

¹³² Paul Todd, Principle of Contract of Carriage by Sep 242.

¹³³ Ibid.

¹³⁴ Ibid.

¹³⁵ Paul Todd, Principle of Contract of Carriage by S, epa. 245.

¹³⁷ Farhang JafariThe Concerns of the Shipping Industry Regarding the Application of Electronic Bills of Lading in Practice Amid Technological Change0

¹³⁸ Maritime Code of the Empire of Etopia, Article 204.

2.3.3.4.Multimodal Transport Bill of Lading/ Transport Document Multimodal transporbill of lading is also knowing by other names as multimodal transport document, intermodal, combined, hetosteouse, door-to-door bill of lading Multimodalbill of lading is used for containerized door-to-door shipments that use different means of transportation from origin to destination For multimodalbill of lading, €unlike the case under throughill of lading, the principal carrier or the freight forwarder takes full liability under a contract of carriage for the entire journey of the cargo by the whole modes of transport, at the transport of lading can be both negotiable and nonegotiable. Ethiopia legal system, it is regulated under the het Multimodal Transports of Goods Proclamation.

2.3.4. Problems of PapeBill of Lading

Unlike othertransport documents like aybills, in case obill of lading delivery of the goods has to be madely agains surrender of the document. Because his unique feature Bill of lading has dual purpose First, it protects the interest of hoder by keeping the basic term of the contract of carriage that the carrier must only deliver the goods against presentation lose bill of lading.¹⁴¹ Second the carrier will be relieved from further obligations y delivering the goods again pates entation of the bill of lading.¹⁴²

Paperbill of lading by having this unique feature and dual purposes heased the world community for centuries. However, hit as some major drawbacks. First of all, the cost of engaging in the business is often high in the case of applying high aper of lading and the slow pace of paper transactions makes this cost even higher which is estimated to be 10% of the value of the dpuct.¹⁴³

¹³⁹ Oleg Drobitko, ,Transport Documents in MultimodalraTisportations Mykolas Romeris University, 2010,PP. 4555, p. 53. [Here in after, Drobitkd,ransport Documents in Multimodal Transportations.]

¹⁴⁰ Business dictionary, €Multimodal Bill of lading,, available at < <u>http://www.businessdictionary.com/definition/multimodaill-of-lading-B-L.html</u> >, [last accessed March 20,2018].

¹⁴¹Wilson, Carriage of Goods by se**p**. 154.

¹⁴²lbid.

¹⁴³ Farhang JafariThe Concerns of the Shipping Industry Regarding the Application of Electronic Bills of Lading in Practice Amid Technological Cha**p***g*5.

The second problem of papebill of lading is that there are cases in which ills of lading may arrive after the cargonere are two main reasons the late arrival of bill of lading. First most importantly with commodities trade, the sacaego is often sold many times on the voyage. This problem will be aggravated if the voyage is fairly short and each sale is financed by two banks; which always needs to inspect the document⁴⁴ However, the bill of lading mostly failed topass through the ands of a number of traders and their banks in time, evenufieds are used instead of mail.¹⁴⁵ The second justificatio for the late arrival of cargo is materialized because of technological innovations madie ship designs, advances in navigation equipment and an increase imperational efficiency. This innovation and advancements make the ships, the loading and discharging process easy¹ and fast. The advent of multimodal transport ther accelerate the pace at with goods are moved. Carriershaveestablished integrated transportstems between themselves and enterprises representing other modes of **tran**ssuch as rail, road and air. Although the above improvement tave resulted in the ccelerated arrival of the goods at the empoint port, the speed at which documents are processied still sluggish¹⁴⁷ Delayed arrival of bill of lading is reported by major trading nations such asBelgium, Germany, Greece, Japan and New Zeadantathe main problem with the use of traditional papeills of lading.¹⁴⁸

The other problem of paperil of lading is fraud. Trade documentation is prone to fraud by the fact that the documents used are easy to forgeedels petforts to the contrary. Today, as anyone can notice, the technology to produce forgeries is becoming better, clapper and more widely available? Moreover, the documentary process due to its nature complexity gives fraudsters opportunities to exploit the

¹⁴⁴Paul Todd,Principles of the Carriage of Goods by SeTaylor and FranciGroup, London New York, 2015,p. 360. [Here in after,PaulTodd,Principles of the Carriage of Goods by \$ea ¹⁴⁵Rouhshi Low, Replacing the Paper Bill of lading with a ElectronicBill of lading: Problems and PossibleSolutions, International Trade and Business La2000, pp.159218, p. 163. [Here in after, Rouhshi Low,Replacing the PaperBill of lading with an ElectronicBill of lading: Problems and Possible Solutions].

¹⁴⁶Rouhshi Low, Replacing the Pape**il B**f lading with an Electronic Bill of lading: Problems and Possible Solution, p. 164.

¹⁴⁷Paul Todd, Principles of the Carriage of Goods by \$pa360.

¹⁴⁸Rouhshi Low, Replacing the Pape Bill of lading with an Electronic Bill of lading: Problems and Possible Solutions, p.164.

system^{1,50}The problem is the fact that victims are mostly from developing countries who are inexperienced buyers with no expertise in international that the fraud may be conducted different ways: among otherts fraudsters may create a fake set of bills of lading that looks sufficiently genuine against which they seek to take delivery of the cargo in advance of the genuine receiver with the assistance of insiders^{1,52} In other cases the fraudsters will seek to create genuine lobikisof lading or other cargo documents, copying corporate styles and logos, and going as far as including genue ship and shipment detalfs³.

2.3.5. Solutions for Problem of Paper Bill of L ading

The aboveshortcomings associated with the use papebills of lading obligeshe shipping industry to look mechanisms for the replacement of papilerof lading. Many options are proposed and employed by the shipping community to address drawbacks of papebill of lading.

The first solution proposed was to use short for the lading.¹⁵⁴ The principal purpose of this action was to simplify documentation and iserelae speed of production by reducing the amount of information on bille. It was done by removing the printed terms of the contract of carriage from the reverse bill the Short form bill of lading can be produced in two forms as either by printing he carriers name the heat or by inserting the name of the selected rierin the bill by the shippe¹⁵⁶ The later one is preferred by the commercial community is available for universal use an opportible with the need of the shipper to give separate fills fitting to each carrier.¹⁵⁷ Consequently through this short form defill of lading all functions of bill of lading were achieved. However, doubt was raised

¹⁵⁰Sy, Ibrahim, Electronic Blls of Lading: Implications and Benefits for **M**itime Transport in Senegal MSc. Thesis, World Maritime University Malmo, [unpublished available at Digital Repository of the world maritime University.], **37**.

¹⁵¹Ayad H. A. Al-Azzawi, the Crime of International Maritime Fraud: A Comparative Study between Iraqi and English LawPhD Dissertation, University of Glasgowchol of Law, 1998. [Unpublished available online], p.24.

 ¹⁵², Four Cargo Frauds to watchtdor• at <<u>https://www.maritimeexecutive.com/article/Cargo</u>
 <u>Fraudsto-Watch-Out-For-201401-30</u>. > [Last accessed December 30, 2017].
 ¹⁵³ Ibid.

¹⁵⁴Wilson, Carriage of Goods by Sep. 161.

¹⁵⁵Ibid.

¹⁵⁶ Ibid.

¹⁵⁷ld., p. 158.

as to whether it fulfils all the requirements of the doctrine of notizined resulte in reluctance to use both under the common law and civil law legal s

Secondly, if the goods are unlikely to be resold while int issansit; nonnegotiable sea wabjill is proposed and used⁵⁹ In case of sea wabjill, the consignee is not required to present the original sea wabjily rather mere identification of himself as consignee by any means is sufficeAs result, the cargo will be released without waiting for the production of the wabjil and this reduces the delay of delivery, the possible incidence of loss and damage, those to delivery, storage and demurrage and the potential fraulole cause of stolen and lost docume hits.

However, stillsea wabill cannot replace theory unique and importantommercial function of papebill of lading. First of all, it doesnot give the seller the security of holding abill of lading simply he has to trust the buyer for payment does not also protect the carrier if he delivers to someone not entitled and also not serve as security for banks under docerntary credits⁶³. Moreover, negotiable ills of lading are adviable when daling with unknown foreign buyers or sellers, because the parties can fiance these transactions aprotect their interests, through the use of documentary credit which is imposted in case of sea wail.¹⁶⁴

In case oftradingcommoditycargoes which are vulnerable for repeated negotiation duringtransit (bil tanker trades and ulk cargoes of grain, ore and a) and financed by documentary credits; sea violatily cannot be solution rather a document of title has to be used⁶⁵ Thus, what would be the practical solution? Internationally it has been recognized that electronical of lading is the best solution deal with the problem of paperbill of lading. In order to minimize the problem of fraud obill of lading,

¹⁵⁸Wilson, Carriage of Goods by Sep. 158.

¹⁵⁹Todd, Principles of the Carriage of Goods by \$**p**a246 andWilson, Carriage of Goods by Sea P.159.

¹⁶⁰ Ibid.

¹⁶¹Rouhshi Low,Replacing the PapeBill of lading with an ElectronicBill of lading: Problems and Possible Solution, p.165-166.

¹⁶²Todd, Principles of the Carriage of Goods by Sepa 246.

¹⁶³ Ibid.

¹⁶⁴David A. Bury, Electronic Bills of Lading: A NeveEnding Story•,Tulane Maritime Law Journal 2016, Vol.41, PP. 19238, at p209.[Here in after, BuryElectronic Bills of Lading: A NeveEnding Story]
¹⁶⁵Ibid.

still an electronic solution is the best alternatives by taking high level security protection.Consequently, the concept of electron **b***i*ll of lading is developed.

2.4. Electronic Bill of L ading

2.4.1. Dematerialization process dBill of L ading

The advent of technology in the telecommunications sector brought different and faster ways of conducting business transactions at the national and international level. Today, it is normal to see that **puers** around the corner of the globe can conduct any business transaction in electronic form without having physical contact and withoutsending and receiving paper document is an electronic dataoctaining information which isaved in an electronic form oin a form of electronic messages sent from one person to another other a print out of the information it contain^{§8}. As transport documentare one of the most important documents that are used in the international commercial transaction, the business community employed electronic means of communicating those documents

Generally, the dematerialization of electronic transport document an beachieved through different methods^{4,69} First of all, after issuing the raditional paper document the parties may agree and dep the document with a third party electronic service provider. Here, the electronic service provider conducts at the paper document and the trading process of that document will be conducted electronic messages and electronic communication between the shipper, the consignee the endorsee, the carrier at the service provider himse¹ ff⁰. Such types of demate alization areadvantageous by the fact that law applicable to paper transport document is fully applicable¹⁷¹ However, such dematerialization process

¹⁶⁶Rouhshi Low, Replacing the Pap**Bil** of lading with an Electronid Bill of lading: Problems and Possible Solution, p. 166.

¹⁶⁷lbid.

¹⁶⁸Raphael BrunnerElectronic Transport Documents and Shipping Practice Not Yet a Married Couple Zurich University, Zurich, 2007. [Unpublished,væilable at the university electronic Repositor], p.20. [Here in after,Brunner,Electronic Transport Documents and Shipping Practice Not Yet a Married Coup]e

¹⁶⁹Brunner,Electronic Transport Documents a **6th** ipping Practice Not Yet a Married Couple 21. ¹⁷⁰Ibid.

¹⁷¹lbid.

is not suitable for all transport documents. This may be important for transport documents in which the original transport documentare not required for presentation before the carrier. For transport document like **bitear** dating, such dematerialization process is not helpful.

The second dematerialization optiontoissubstitute the paper transport ocument and the wholeprocedures by electronic messaged swever, still this system is depending on the third-party registry system. The third party provides the contractual basis and administer the electronic registry system third option is a complete dematerialization of transport documents and all functions of a traditional paper transport document the involvement of any third part¹⁷³ The first two are commonly called registry system whereas the third **certerise**d to asthetoken system.

2.4.2. Definition of ElectronicBill of L ading

Definition of an electronic document was **fbe**usof scholarlywritings for the past three decade⁵⁷⁴ Electronic bill of lading as electronic document is defined by different writings from the very inception of the concept up to todaterally electronic bill of lading can be defined as electronic counterpart of papileof lading For the purpose of this researdates look the following two definitions Richard Aikens and et al. defined electrobilc of lading as €aseries of electronic messages, in a form similar to emails, containing information or instructions relevant to the goods concerned and their carriage and delivery, of the same type apsein a p bill., ¹⁷⁵As per this definition electronic lid of lading as evidence of contract of carriage receipt and document of title.

We cannot find direct definition & electronic fill of lading under the international convention governing arriage by sea. However, The United Nations Convention on

¹⁷²Brunner,Electronic Transport Documents and Shipping Practice Not Yet a Married Couple, ¹⁷³Ibid.

¹⁷⁴Vladimir Savkovi†, ,Towards Broader Use of Electronic Bills of Lading in Inte**onal**iTransport of Goods: United Nations Convention on Contracts for the International Carriage of Goods Wholly or Partly by Sea (2009) A New Incentive or an ObstacleSEE Law Journal2014, Vol. 1 No. 1, pp. 8595. P.86. [Here in after//ladimir Savkovi.., •Towards Broader Use of Electronic Bills of Lading in International Transport of Goods

¹⁷⁵ Richard Aikenset al, Bill of lading, p. 53, para. 118.

Contracts for the International Carriage of Goods Wholly or Partly by Sea electronic transport records defines electronizents port recordAs electronic transport record includes all electronic transport documents to be utilized by the marine community, the definition given for electronic transport record is inclusive of electronic flading Accordingly, electronic transport record is defined as;

information in one or more messages issued by electronic communication under a contract of carriage by a carrier, including information logically associated with the electronic transport record by attachments or otherwise linketthe electronic transport record contemporaneously with or subsequent to its issue by the carrier, so as to become part of the electronic transport record, the electronic transport or a performing party receipt of goods under a contract of gereiad...contains a contract of carriage.

However, this definition is limitedo only thetwo functions of bill of lading as evidence of receiptof goodsand contract of carriage. The convention has divided electronic transferable records as negotiatatesport records and normansferable records Negotiable electronic transport records (electronic negotiatible f lading is also recognized and defined as €an electronic transport record [t]hat indicates, by wording such as to order, or negotiableotorer appropriate wording recognized as having the same effect by the law applicable to the record, that the goods have been consigned to the order of the shipper or to the order of the consignee.,, (Internal quotation omitted)Thus, electronicbill of lading is electronic transport **ce**rd that can be in negotiabler non-negotiableform and which can perform the function of the traditionabill of lading.

¹⁷⁶ The Rotterdam Rules, Article 1(18).

2.5. Introduction of Electronic Bill of Lading in Ethiopia

Under this part, the researchand dressed the issue related with whether there is an actual need for Ethiopia to introduce an electronic bill of lading or not. In doing so, the researcher used both an interview and documents an **Styatis**tically seen, apart from examination and analysis documentary data and reports, the researcher had interviewed around 9 organizations from government and business communities To list them, personnel fromEthiopian Shipping and Logistics Services Enterprise, Ethiopian Maritime Affairs Authority, **iEthia** Customs and Revenue Authority, Ethiopia Shgle Window Development Project Office, Commercial Bank of Ethiopia, Ethiopian Petroleum Supply Enterplingeighters International (PABOMI), Solomon Zewdu International Shipping and Freight Forwarders Agentand MACCFA Fright Logistis. The interview collected from those respondents and datare examined and analyzed in order to appreciate whether there is the actual need for the introduction of electrobilit of lading in Ethiopia or not.

2.5.1. Transport Documents Used in Ethiopia Foreign Trade Regime

Principally, foreign trade, import and export goodsto and from Ethiopiacan be conducted hrough the involvement of major modes of transportationsystems uch asmarine, rail, air or road transportation do so the respective transport document of every transportation method can **bee** ployed. The researcher instended to identify two interrelated issues The first one is to identify as torhich marine transport documents bill of lading, sea walpill, electronic bill of lading or others are employed under marine and multimodal transport systems second one is about the nature of the transport document document document document document document of the transport document document and the reason for their choice.

To that endfive relevant government and business titles are interviewed and their response is provided as follows. One of the respondents from the busin titles stated that theype of maine transport document that they using s different in

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case of export anithport.¹⁷⁷ In case of importation, almoist all case, they use paper bill of lading as the Ethiopia law does not allow to use other transport documents including sea wail. However, in case of exportation payment is made in doumentary credit, they often uses a walpill. He also told me that sometimes from those countries which about know what is required hader Ethiopia law; mostly from the United States of America, sea while or telex release may be issued and sent to the for clearing purpose⁷⁸ However, according to him, in case whensuch types of cases happened wthety commonly do is either to request an original bill of lading from the shipper or to issue an original of lading by themselves as an ageafter surrendering he sea wabill.¹⁷⁹The other respondent from the Ethiopian Shipping and Logistics Services Enterprise stated that the enterprise employtwo types of transport document depending on the mode o transport employed⁸⁰According to him, in case of multimodal transport system combined/thoroughbill of lading is used; whereas in case of unimodal transport system, normal bill of lading is in use. Besides, he also stated that terms of negotiability depending on the ordef the shipper both negotiable and non negotiablebill of lading are in usagehoughnegotiablebill of lading is the most widely used oneHe alsoinformed theresearcher that far there is no practice of electronic bill of lading. The remaining three respondents als provided that; what is practically in use is only paper bill of lading and multimodal transport document^{1,81}

Coming to the nature dofill of lading they employed and the reason behind their choice, all of the respondents told me that, in egotiable bill of lading and negotiable multimodal transport docume which is practically in use. They

¹⁷⁷Interview with Mr. Nigussie Wabella, Senior Shipping Officer at MACCFA Logistions, the Transport Documents used in Ethiop/April 30, 2018.

¹⁷⁸Interview with Mr. Nigussie Wabella, Senior Shipping Officer at MACCFA Logistics, on the Transport Documents uslein Ethiopia, April 30, 201.8

¹⁷⁹lbid.

¹⁸⁰Interview with, Mr. Yared Siferaw, Legal, Insurance and Claims Department Director at Ethiopian Shipping and Logistics Services Enterprise: Transport Documents used in Ethiopia May 7, 2018.

¹⁸¹Interview withMr. Samson Hailu, Operation Manager of Solo International Shipping and Freight Forwarding Agenton thetypes of transport document used in Ethio**Ma**y 3,2018, Interview with Yordanos Serkebirhan, officer, Freighters International (PABOMI), the typesof transport document used in Ethiopite/ay 4, 2018 and therview with Mr. Asaminew Feleke, Senior Banking, Insurance and Clearance Expert at Ethiopian Petroleum Supply Enterprisetype of Transport documents used/April 30, 2018.

elaborated the reason behind its negotiability as follows. According to them, negotiablebill of lading is mainly employed by the fact that commercial and legal factors necessitates soing so. To start with the commercial factor, in Ethiopi especially in case of import transacts pit is almost a must to have the involvement of banks. As a result, when besinare there, the transaction is going to be made through documentary credit system; which among others require the negotiability of the transport document to be used.

Besides they also stated that der the Ethiopia custors law unless there is guaranty form abank oran insurance company, it is not allowed to release argo from a port by the copy documents Moreover, the Ethiopia maritime law also by the carrier to release argoes after having the originabill only.¹⁸² Thus, due tathese factors, it is negotiable bill of lading or multimodal transport document that can address all the above commercial and legal necessit Terms responses of the participants of the study show that marine transport document which is practically under usage is egotiable bill of lading.

2.52. Factors that Necessities Introduction of Electronic Bill of Lading in Ethiopia

2.5.2.1. Late Arrival of Paper Bill of Lading Which Results in UnnecessaryCost Due toDelay of Cargo Clearance

It is no doubt that the status of logistics and transport sected the major determining factor for having proper performance in the international commercial transaction. Unless a given state has built efficient logistics and transportation system, it would be very difficult to be competitive enough at the arena of international trade and even it is one of the very important worries investors to invest or not to invest that state. The status of Ethiopia in this regard is not good.

The World BankGroup annually come up with report on the logistics performance of statesAccording to the 2016World Bank report; Ethiopia•s ranking is 126t of 160 countries surveyed. The World Bank•s LPI analyzes countries in six

¹⁸³€Logistics performance Index,,, available at <

¹⁸²Maritime code 6the Empire of Ethiopia, Article 187(3).

https://logisticsmgepsupv.wordpress.com/2017/04/20/logipticfsormanceindex/>, [last accessed March 22,2018].

components: these are the efficiency of customs and boategement clearance, the quality of trade and transport infrastructure, ease of arranging competitively priced shipments, competence and quality of logistics services, ability to track and trace consignments and frequency with which shipments reach ceesign thin scheduled or expected delivery times Accordingly, Ethiopia ranke 60, 133, 102, 117, 133 and 149 respective 1. This tells us that Ethiopia s performance the frequency with which shipments reach consignees within scheduled or expected delivery times is the worst of all yet the very important logistic performance indicator.

Secondly, according to the 2013 OECD trade itadion indicator report, € thiopia•s performance for the harmonization and simplification of documents, automation ad streamlining of procedures is below the averages of Sablaran African and lower income countries¹⁸⁶ The above two reports tell us that there is chronic trade facilitation problem which can be attributed either due to backward infrastructure or poor dogumentation process which ranges frombank permit process to goods leease process. Though there is improventin terms of infrastructure, still the problem is prevalent as the second problem is not yet addressed.

As perEthiopian Revenues and Customs Aluprity baseline sarvey for time release, the average time for ank permit processind port clearance process to handover to the importer by clearing agents/forwarders including transport from Diibouti to Addis Ababa on average was found to 32 cand 33 days respectively ¹⁸⁷ The same study also shows that tige ods tansit time from three ports particularly from dia, China and Dubai ports on average wasy 12 days¹⁸⁸ Moreover, as per the report the average Ethiopian goods port dwell time at po**D** jud out is 31 days; which is the average of 30 days for unimodal transport to how and the second days for unimodal transport to how a second days for how a second days

¹⁸⁴€Logistics performance Index,, available at <

https://logisticsmgepsupv.wordpress.com/2017/04/20/logipticfsormanceindex/>, [last accessed March 22,2018].

¹⁸⁵ Ibid.

¹⁸⁶€OECD Trade Facilitation Indicatersthiopia,, at <

http://www.oecd.org/tad/facilitation/Ethiopia OECDadeFacilitationIndicators, [Last accessed, December 28, 2017].

¹⁸⁷Ethiopian Revenues and Customs Authority (ERCA) Baseline Survey for Time Release Study (TRS) Final Report, p. 52. ¹⁸⁸lbid.

for unimodal through the Ethiopian Shipping and Logistics Services Enterprise and 10 days for the mtimodal transportation of good⁸⁹. Furthermore, as per the 2016/17 Ethiopian Shipping and Logisti**Se**rvicesEnterprise Annual Report the average Ethiopian goods port dwell time at port of Djibowais 33 days for unimodal cargoes and 9.5 days for multimodal cargoes.

Participants of this study peorted that the basic problems they encountered wife they were using paperbill of lading. All of the respondents including both government institution and the private business communities state in thratst cases cargoes arrished port of Djibouti before bill of lading reaches to the hand of importers or freight forwarder¹8¹. Consequently by the fact that original paper bill of lading is required formaking delivery, custom clearaneed bank permit process, cargoes may not be earried on time.

According to the statement of the respond**bets**ause of the reas**o**argoes are not cleared on timethe overall player of the transaction will suffeensts¹⁹² First, the importer incurs unnecessary and additional co**st**esdiemurrage and ortage cets, which would not be there had the documents been in the hand of the importer while or before the cargo arrived at Djibouti pont. Besides because of the competitive nature of the market; the price of a given product which has to be at the transk before a month may not have imilar price after a month. Thus, the importer suffers to unexpected and arketoriented price competitiveness which cannot be averted otherwise¹⁹⁴ Second, unless the importer gets bankrupt because of market competition; it is consumers who finally suffer from an increase on the price of the goods imported hrough transfer of price to them, which would in effect has an

¹⁹⁴lbid.

¹⁸⁹Ethiopian Reenues and Customs Authority (ERCA) Baseline Survey for Timea**Rel**Study (TRS) Final Report, p.53.

¹⁹⁰ è ¢ p î 5ëc u + • 5 V - u "5 r 5 u õ - u s Ê = u & 2009 Ó ac = 4 b ¹⁹¹ Interview with Temesgen Yihunie: Director of Logistics Coordination **ano** hitoring Department of the Ethiopian Maritime Affairs Authority, on the reason behind lateness of cargo cleara**no** e May 7,2018, Interview with Mr. Nigussie Wabella, Senior Shipping Officer at MACCFA Logistics, on the reason behind lateness of cargo **arb** ence, April 30, 2018, Interview with, Mr. Yared Shiferaw, Legal, Insurance and Claims Department Director at Ethiopian Shipping and Logistics Services Enterprise, nother reasons behind lateness of cargo cleara**no** e Mr. SamsorHailu, Operation Manager of Solo International Shipping and Freight Forwarding Agent, on theor the practical challenges of paper bill of lading 3,2018, May 4, 2018, Interview with Mr. Asaminew Feleke, Senior Banking, Insurance and Clearance Expetition approximation Petroleum Supply Enterpriseon the practical challenges of using paper bill of lading 7130, 2018. ¹⁹²Ibid.

adverse impact on the gross national economy of the country as there would be an increase of consumption ost.¹⁹⁵ According to the statement of the respondents analysis of documents reasons for such late arrival bill of lading can be attributed to either of the following reasons

A. The Actual Foreign Trade Flow of Ethiopia and Nature of Imported Cargoes

As per the 2014/15, 2015/6 and 2016/17 manual Report of National Bank of Ethiopia the major sources dethiopia simport merchands is from Asia which accounts around 65 percent of the total import⁸⁶ In terms of states 80% of the import merchandsie originates from China, India, Kuwait, Saudi Arabiaand the United Arab Emirate¹⁹⁷ Similarly, though there is difference in terms of share Ethiopiaes majority of export merchasediis destined to sia which account for 37.7 **d** the total exports⁹⁸. In terms of the state**s**early 67% of the Asian share is destined to China, Saudi Arabid, Jnited Arab Emirats Israel, India, Pakistanand Yemen.Generally, the majority of Ethiopia foreign tradelow is towards the Middle East and Southast AsiancountriesSo, what? as discussed under the section of this chapter which deals about the problem of papebill of lading, one of the principal reason for the early arrival of bill of lading is related to the where about of the port of loading of cargoe¹⁹⁹ If the distance between the port of loading and the port of discharge is too short, it is obvious that the cargoesant before the original paperbill of lading. Consequently the actual foreign trade flow of a given state determines the lateness otherwise of the marine bill of lading and other transport documents.

As stated above the average tratisite from ports of Dubai, Indiagnd China is 12 days. Hence unless the documents are there at the hand of the forwarders or importers before 12 days, it is obvious that the cargo cannot be cleared depoint. One of the respondents of this research stated that the principal reastor for

¹⁹⁵Ibid.

¹⁹⁶NationalBank of Ethiopia,Annual Reportor the year 201/45, Domestic Economic Analyss and Publication Directorate of National Bank of Ethiopia, 2015, p87,1National Bank of Ethiopia, Annual Report forthe year 201/36, Domestic Economic Analysis and Publication Directorate of National Bank of Ethiopia,2016, p. 74-85 and National Bank of Ethiopia, Annual Report forthe year 2016/17, Domestic Economic Analysis and Publication Directorate of National Bank of Ethiopia, 2017, p. 4654.

¹⁹⁷lbid. ¹⁹⁸lbid.

¹⁹⁹Supra p. 32, Chapter Two, section 2.3, sub section 2.3.4.

lateness obill of lading in their transaction is the fact the atound **5**% of the bulk cargoes imported is from Kuwait. According to him, the transit time from Kuwait to the port of Djibouti is too short which may take only 2 or 3 days. Nevertheless, the document even may not be sent from the shipper while the here some trived at Djibouti port as it takes more time than the transit time originated either from the middle east o South East Asian which the transit time is still short and in effect the cargoes arrive before the document reached the hand **otener**.

Coming to the nature of cargoes, the data obtained from the Ethiopian Maritime Affairs Authority tell usthat most of the argoes imported to Ethiopia for the past six years arebulk cargoes (ry bulk and tanker bulk) ad general cargoes which are not containerized.³ As can be witnessed from the tablelow nearly2/3 of the whole Cargoes imported to Ethiopia is bulk cargoes mon-containerized general cargoes.

Sr.1	ltem.	2017	2016	2015	2014	2013	2012	Reman
1	Grain	1,120,					84189914,0	
2	Fuel (Oil & gas)	3,900,	000 3,378,4	55.030,138,	6932,906,	827, 4575,0	56.020,300,	000
3	Fertilizer	917,7	- ,	-			5.09071301	
4	Coal	974,5	i 4 2 7 1 7 , 1 3	3.69 ^{500,(}	00 500,0	00910,00	0.00247,4	51
5	Sugar	163,	,				5.00 227,1	
6	Container Multimod	al 2,422,	824 2,383,	796805,5	8 21. 2256 7 , 7	68.36 695,0	99 ^{1,030,6}	77.00
7	Container Unimodal	,					1,017,7 34	
8	Other general Carg		276 2,773,6					
	Total	12,175,	93.7513,820	, <u>152</u> 2, 332	, 5 5171 , 2 7 1	89149 48,3	84942688,3	96.08

Source: Taken from the Ethiopia Maritime Affairs Authority Report on Import Performance

In Ethiopia bulk cargoes are imported through unimodal system matislit is difficult to containerize them, big blow.sAstated before the Ethiopian goods port

²⁰⁰Interview with Mr. Asaminew Feleke, Senior Banking, Insurance and Clearance Expert at Ethiopian Petroleun Supply Enterprise on the reason for the Lateness Bill of lading, April 30, 2018.

²⁰¹Ibid.

²⁰²Ibid.

²⁰³Dry bulk cargoes include grain, fertilizer, sugar, coal whereas liquid cargo, tanker cargoes consist of oil and gas imported to Ethiopia and general cargoes are those cargoes which have different features but can be shipped together like factory machitmactors and transformers.

dwelling time attheport of Djibouti is highest in case different unimodal system than the multimodal. Besides, as discussed above Bulk cargoes by their nature are vulnerable for repeated negotiation during transsita result there is no choice to use other types of transport document like seabiliary atherit is only negotiable bill of lading that fulfills this characteristic f bulk cargoes. However, in Ethiopias stated above the port dwelling time for bulk grazes is above a month by the fact the paper bill of lading becomes late Therefore, there should be means which can accommodate its nature with the existing problem; for this researcheruld be true only by using digitalize negotiable of lading.

Therefore, as the foreign trade flow of Ethio**psif** rom and to middle east and south east Asia countries in which the cargo transit time is too short and the nature of cargoes imported to Ethiopia are mainly bulk **and** containerized general cargoes which cannot be done **thu**gh multimodal systemit is necessary to introduce electronic bill of lading in order to alleviate the costs incurred due to late arrival of traditional papebill of lading.

B. The Nature of Ethiopia€s Foreign Trade Payment System

Globally, payment in international trade can be made in four major Wayshe First method of payment is advance payment; it is a mode of payment in which the buyer obliged to pay before the transfer of ownership to thinough telegraphic transfer or creid card system²⁰⁵ It is among the fastest method of paymetribwever, unless there is trubsetween the buyer and seller through prior relationship, it is very risky for the buyer and not even advisa²⁰ E.his types of payment in most jurisdictions isnot from the official foreign exchange market antiblere is also a quantity cap²⁰⁷

The second mode of paymeista documentarycollection. It is one of the most important methos for payment in the international trade in which payment is to be

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²⁰⁴Andres Grath, The Hand Book of International Trade and Finan The Complete Guide to Risk Management, International Payments and Currency Management, Bonds and Guarantees, Credit Insurance and Trade Finan (2019), ed., Kogan PægLimited, London, United Kingdon 2008, p.30. [Here in after Andres Grath, The Hand Book of International Trade and Fina Ince ²⁰⁵ Id. p.35.

²⁰⁸Welly, Hellen M., Brain MacGregorAgricultural Transportation Handbooksted., United States Department of Agriculture, 2004., p. 40. [Here in after Agriculture] Transportation Handbook. ²⁰⁷Ibid.

made through the **set** s and buyer banks support by forwarding documents to the buyer against payment. Here, the exporter after making shipment gives the documents to his bank and the seller bank will footwize to the buyer sbank²⁰⁹ After that the collecting bank releases the documents to the buyer if and only if payment for the goods are made **by** buyer. Then after, the buyebank will transmit the money to the seller bank for payment to the late²¹Oddeder this mode ofpayment bill of lading serves as security for the uyer bank to make the payment. Therefore, the buyeannottake delivery of goods ntil hegets the bill of lading which is under control of the bank adocumentary collection. The third and most widely used mode **p**ayment is documentary credit (Letter of Credit). Lette of credit is the most secure thod of payment underternational trade and it is advisable if the buyer and eller are unfamiliar each other.

Letter of credit is acommitment by a bank on behalf of the buty make payment for the seller through the later bank up on fulfillment of certain conditions which are mostly related to presentation acconfirmation of documents¹². In this case the buyer s bank will release documents after pargent has been made by the buyer Among the documents, negotial bild of lading is used as a security to the baryk guarantying the bankfor the obligation it has undertaken on behalf of the baryk However, under this mode of paymeticssuance and amendments of documents can take timeand it will have an impact on the clearing and delivery of carg thes. fourth type of mode of payment is payment or consignment basis under this mode of payment payment is made only after the carg is sold or transferred to another buyer or wholesaler not while it is under the hand of the importer or broker. It is mostly used in case of perishable prodicts.

Generally, the most widely used modes of payment are payment through documentary credit and documentary collectlondoing so, for the banks, it is must

²⁰⁸Andres Grath, The Hand Book of International Trade and Fine, p. 42.

²⁰⁹ld, p.44. ²¹⁰lbid.

²¹¹Dotsey Nelson Monday, Dr. Maindson Kweku Benn & Dr. Davidkah, ,Perspective on International Trade and Payment Systema International Journal of Researcher 16,Vol 1, Issue 6,2016, Pp21-31, at p. 28. [Herein afteNelson Mondayet al,Perspective on International Trade and Payment System

²¹²Nelson Mondayet al, Perspective on International Trade and Payment Syster29.

²¹³ Andres Grath, The Hand Book of International Trade and Finance 49.

²¹⁴Welly et al., Agricultural Transportation Handboolp. 42.

to use negotiablebill of lading as security for effecting paymenthrough documentary credit and documentary collection unique natur of bill of lading as a document of title has a paramount in traconce for financing importexport trade. The challenge is that financing of trade through documentary credit and documentation process increases the number of days for processing takeover of cargoes from ports. So, there should be a soluvitoic cansubstitute the role of paperbill of lading as a document of title and which avoids problems related the late arrival of cargoes. The practical solution as discussed before is digitalization o electronic bill of lading.

Coming to the case of Ethiopizayment foimport can be made ther through the ter of credit, cash again documents documentary collection) and advance payment. Besides, payment for export can be made either on basister of credit, cash againstdocument(documentarycollection), advance payment and consignment. However, The Ethiopian foreign exchange law patestriction on the amount of transaction to be processed on the basis of advance payment. The ambound to permitted for advance payment shall not exceed USD 5,000 is shows that payment for all imports which worth more than USD 5,000 is required to be processed and pad either through documentar predit or cash against document in which bill of lading is one of the documents used to effect paymentactically, as statedby Mr. Yared shiferawLegal, Insurance and Claims Department Director at Ethiopian Shipping and ogistics Services Enterpristing reason behind the most prevalent usage **bill** of lading is related to the requirement of the Ethiopia payment system law.He stated thatalmost 98% of importexport transaction has to be conducted through documentary credit system; it is must to issue negbiliable lading,²¹⁸ According to himthe possibility to use other nonegotiable transport documents like sea wail is too minimal²¹⁹

²¹⁵ Directive to Transfer NBE•s Foreign Exchange Functions to Commercial Banks, National Bank of Ethiopia, Directive No. FXD/07/1998, 31 August 1998 ticle 5(1), (3) and (4). [Here in after, Directive to Transfer NBE•s Foreign Exchange Functions to Commercial Banks ²¹⁶ Id., Article 6(1).

²¹⁷ Id., Article 5(4).

²¹⁸ Interview with Mr. Yared Shiferaw, Legahsurance and Claims Department Director at Ethiopian Shipping an Logistics Services Enterprises, the Reason Behind the Most Prevalent Usage of Bill of lading, May 7, 2018. ²¹⁹Ibid.

Moreover, Mr. Anteneh Girma also stated that though it is not quantified most of the import trade payments processed by Commercial Bartethorbia is made ither throughletter of credit or cash against documentaries conclude, the role dofill of lading in documentary credit payment system has calasted arrival of the bill than the cargo. As a resubill of lading has to be digitalized in order to avoid setback on the cargo clearance and logistics performance of Ethiopia; but only without losing its function as document of title.

2.5.22. Loss Error and High Cost for Amendment of Paper Bill of Lading

Paperbill of lading as a documentary its nature is vulnerable for beimogistaken, lost, stolen or destroyed the dscrepancy mathappen on the particulars obial of lading mostly on the description of goods The discrepancy may be known at different stages of the documentary transaction instance the sellemay know the existence of discrepancy of description of goods teated orbill of lading once affer the bill has been released by the carcinent may be known later on after the original bill of lading is submitted to the hipper-sbank or maybe after theil reaches at the hand of the buye?².

For the first scenario of discrepancy, the custom of mercantile the error can be amended by submitting all originals or the freight forwarder athe port of loading who issued the bill of lading instead of the carrier?²² In case of the later scenario amendment of hedescription of goods an bemade only after the buyer has received the discreparabill form his bank. The buyer after receiving the will approach the carrier representative and by permission of the carrier or his representative from the port of loading correction will bemade²²³. This amendment process will take time and this in effect increase the dwelling time of carged the port of delivery which in turn increase cost of the shipment.

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²²⁰Interview with Mr. Anteneh Girma, Manager of Trade Service Central Processing Unit at Commercial Bank of Ethiopiaon the Reason Behind the Most Prevalent Usage ilb of lading, May 4, 2018.

²²¹Ajay Phthak,Export Import Managementst ed., Educreation Rulishing, India, p. 95. [Herein after,Ajay Phthak,Export Import Management²²²Ibid.

²²³ld., p. 96

Bill of lading may also be stolen, destroyed or lost while it is at bank, courier transit or even before it is submitted to the barth. This cannot be avoidend twithstanding that the parties gave due care on preservation of it he problem is without having original bill of lading, it is not possible to make delivery of goods at the discharge port. What could be the solution? The ansiego bvious it has be substituted or replaced. Through mecantile custom, a lost, destroyed or stable in of lading can be substituted by another original sebilf of lading with the fulfillment of certain conditionsparticularly the shipper will be obliged to give indemnity bond which relieves the carrier for being liable if the lost of lading is found and surrendered.²⁵The shipper or his representative after approaching the carrier request for issuance of set of originabill of lading instead of lost originabill of lading.²²⁶ This process of substition will take additional time and it increases the time that actually takes for the banking rocess and verall clearance process sint the shipment does not wait at the transit while thost bill is substituted

Regarding the case Ethiopia, all of the respondents who participated in this study reported that loss or mistake on the particular bilb of lading is a usual challenge they encountered Mr. Samson Hailu, Operation Manager of Solonon Zewudu International Shipping and Freitg Forwarding Agent stated that product specification or othe contents of bill of lading may miss match with the sales contract and also is normal to find unrelated contents from tbell of lading.²²⁷ He described the problem as follows,

The problem binconsistency in the goods description leads are nearly another bigupset! Amendment do ill lading cause for the restarting of the document transaction process again which in effect increases the dwelling time and costs going to be incurred by the porter.²²⁸ "[emphasis added]€.

Another respondent from MACCFA Fright Logistics stated thabill of lading may be lost either at custom or while it is time hand of the shipper, freight forwarders or consigneein such cases there are no other means rather than requesting for

²²⁴Ajay Phthak,Export Import Managemenp. 94.

²²⁵Ibid.

²²⁶ Ibid.

²²⁷Interview withMr. Samson Hailu, Operation Manager of Solo International Shipping airghFre Forwarding Agenton the Practical Challenge of PapBill of lading, May 3,2018. ²²⁸Ibid.

issuance; which in effect takes additional weeks to have it aggain addition an official from the Ethiopian Shipping and Logistics Services Enterpolis closed that some of their custmer request the enterprise to release the cargo by alleging that the original bill of lading is either destroyed or lost? Moreover, the official from the commercial bank of Ethiopia stated the BE as importers bank witness the loss of bill of lading while facilitating documentary credit process.

The above assessment shows that loss and discrepabilityo6f ading are actually happening here in Ethiopia likewise what is going roanotherworld.

2.5.2.3.Ethiopia€s Winerability for Documentary Fraud

As stated under the previous p²³rbill of lading is one of the most important documents in documentary credit system as it gives both title in the goodsaland rights to sugunder the contract of carriage to the matsferee. Becaesof its role in facilitation of international tradefraudsters are eager to get benefit through manipulation of it. Fraud obill of lading can be made in different way The first scenarios the casen which noshipment of goods made These types for aud can be made by using imaginary names for the carrier and shopt the carrying vessel named in the bill may not even exist²³.

The problem beconservorse by the fact that the banker will verify only the authentication of the document presented, not take take to take delivery of the cargo in advance of the geimain presented by the banker will verify only the second scenarion of fraud on bill of lading can be committed by shipping lesser quantity of goods than actually contract and Moreover, till of lading can be forged by creating a fake set of bills of Lading that looks sufficiently genuine against which they seek to take delivery of the cargo in advance of the geimain presented of the generation presented of t

²²⁹Interview with Mr. Nigussie Wabellla, Senishipping officer at MACCFA Fright Logisticson the Practical Challenge of Paperill of lading, April 30,2018.

 ²³⁰Interview with Mr. Melaku MekonnerManager of Legal Service Division at Ethiopian Shipping and Logistics Services Enterprise the Practical Challenge of PapBill of lading, May 7,2018.
 ²³¹Interview with Mr. Anteneh GirmaManager of Trade Service Oteal Processing Unit at Commercial Bank of Ethiopiaon the Practical Challenge of PapBill of lading, May 4,2018
 ²³²Supra p.24, Chapter Two, section 2.3, sub section 2.3.2.3.

²³³ Susmitha PMallaya Documentary Credit Law: An Indian Perspectited Dissertation, School of Legal Studies Cochin University of Science and Technology, 2007, [unpublished available at the University Repository], p. 140. [Herein aft@usmitha P MallayaDocumentary Credit Law: An Indian Perspective ²³⁴Id., p.141.

receiver²³⁵This type of frauds mostly conducted witt the help of insiders who has knowledgeabout the detail of that **pt**acular bill of lading. The fourth scenario in which bill of lading can be forge is through the shipsertion of a false date of **phi**ent in the bill of lading by the shipper or his agent to shot wat the shipment has been made in timebut not actually. The problem is getting worse and worse with the help of technology as fraudsters manipulate the evil **sfde** chnological instruments t make fraud on the paper.

Studies show that developing countries are the main target of documentary fraudsters²³⁶ In thosecountries buyers and other concerned parties who involved in the processof the international business transaction lacks the required skill and knowledge to detect the forged one from the genuitimeus as Ethiopia isa developing country, it is presumed that she is under the target of fraudsters. Respondents of this study were asked about the status of frabeloith of lading in Ethiopia.Mr. Yared ShiferawLegal, Insurance and Claims Department Director at Ethiopian Shipping ad Logistics Services Enterpristeelieves that vulnerability of paperbill of lading for forgery is the major problem of a paperbill which necessitatethe introduction an electronic bill of lading in presentEthiopia. He also stated that recent times, forginthe bill of lading becomes the challengte o the overall maritime industry. He stated the seriousness of the problem as follows.

As a shipping line, we have experienced a lot of real cases relating to **for be** hof lading. Some of the forgedbills of lading can be easily identified at the early stage without having any impact on the transaction. But, sometimes it may be even very difficult to detect and differentiate forgedall of lading from the genuine one As a result, there are cases in which e enterprise delivered cargo against a forged bill of lading and in effect he shipping enterprise as carrier and ot ageties of the transaction incur costs. Today, everyoneat our enterprise is a reful on the genuineness of is en bill of lading and the enterprise always tries own best to check the docume it.

²³⁵ €Cargo Frauds to Watch Out <u>fohttps://www.maritimeexecutive.com/article/€argoFrauds</u> to-Watch-Out-For-201401-30#gs.bdKdlqA[last accessed on April 22,2018].

²³⁶Ayad H. A. Al-Azzawi, The Crime of International Maritime Fraud: A Comparative Study between Iraqi and English LawhD DissertationThe School of Law, Faculty of Law and Financial Studies University of Glasgow, 1998, npublished available at the University Repositopy24. [Herein after Al-Azzawi, The Crime of International Maritime Fraud: A Comparative Study between Iraqi and English Law Besides, thenternational Maritime Bureau analyses also shothat documentary fraud aimed at buyers in developing countries mostly those from the Middle East and Africa.

²³⁷ Interview with Mr. Melaku Mekonnen, Manager of Legal Service Division at Ethiopian Shipping and Logistics Services Enterprise, the Practical Challenger PaperBill of lading, May 7,2018

For him, digitalization of electronic bill of lading is very important to avoid such big practical challenges of sing apaper bill of lading. Mr. Melaku Mekonner from the same department has also exposed bas to how Ethiopian Shipping and Logistics Service Enterprise ill of lading is vulnerable forgery. He stated that ost traders in Ethiopia knows that the main purpose add fill of lading is its function of being title deed. Knowing this, some evil inded traders can forge the Ethiopian shipping line bill of lading if they have knowledge about the fact that birle of lading is the one which is issued by the agent of Ethiopia prime line at the port do add and if they accessome of the details of hat specific bill of lading.²³⁸ He also added that the technological development makeverything easy to print out forge bill of lading as it is origina f²³⁹.

A recent case which is pendibgefore the civil and criminal bench of Ethiopian and Korean courts shows the gravity of the problem importer whosename is Mr. X has entered into contract of sale with a South Korean car dealethforpurchase of 22 automobiles which woth around 7,000, 000 EthiopianirB²⁴⁰ The Ehiopian Shipping and Logistics Servicen Eerprise through its agent has issuedila of ladingfor the South Korean car dealethe port of loading there in the Korea²⁴¹ However, another tradeeated in Ethiopia/ho has not an actual contract with Sth Korean car dealer come up with a forget dof lading as if he is a genuine receiver of the automobiles and elivery has been medfor him. Later on after delivery has been made for the fraudstes outh Korean car dealer informet the Ethiopian shipping line that ihas not yet sentific original bill of lading to Mr. x.

²³⁸ Interview with Mr. Melaku Mekonnen, Manager of Legal Service Division at Ethiopian Shipping and Logistics Services Enterprise, on the Practical Challenge of Paper Bill of lading, May 7,2018 ²³⁹ Ibid.

²⁴⁰ Interview with Mr. Melaku Mekonnen, Manager of Legal Service Division at Ethiopian Shipping and Logistics Services Enterprisen the Practical Challenge of PapBill of lading, May 7,2018 ²⁴¹Ibid.

2.5.3. Technological Readiness of Ethiopia for Introduction of Electronic Bill of Lading

It is known that an electronicial of lading can endure in practice just by using certain technologyEven, the traditional paperial of lading is realized by the technology of written word on paperic cordingly, the technological readiness of a given state is very important in order to have application of electronic bill of lading

Emanuel T Laryea; avell-known scholarsni the area of paperless international trade, has identified he minimum technological threshold that needed to operate paperless international trade According to him, the following minimum technological requirement has to be met by the principal players of international trade in order to have paperless trade³. The first minimum threshold is that importers exporters and their agenteed to have the vertex econology hardware, software, and otheraccessories install and maintain an electronic system at acceptable international standards²⁴⁴ Besides the system they have hould enable hem to create, transmit, eceive, store, secure, and retextructured electronic data and able to beconnected pline.

Secondly, gvernment agencies re also required to have technologywhich suppors electronic systems, mainly the governments thave instaled electronic clearance systems which can connect with porters, exporters, freight forwarders, brokers, and carriers. Third, banks and other financial institutions ed to have the technology of communication system which can connect mporters, exporters and other entities ach other and to the ternational business communifyourth, there must bebasic national IT infrastructure a regulatory framework for information technology. The telecommunication network must reliable and easily sessible. At the beginning of this millennium, most developing countries regarded as low-tech countries However, after the end of the first decade of 2 entury, developing countries including least developing counts great improvement

 ²⁴² Emmanuel T. Laryea The Technologial Challenges Facing Developit Qpuntries in the Move to Paperless Internation at ade, Bond Law Review Volume 11, Issue 2,1999, p.280.
 ²⁴³ Ibid.

²⁴⁴ Id., p. 281.

evensome of the developing countries have beyond the level of the former high-techcountries.

Coming to the case of Ethiopidespite the fact that majority of Ethiopian peoples are living in rural Ethiopia, technological penetration is highLetes look at Ethiopiaes readiness light of the above parameters start with the readiness of importers and exporters, ist true that most of the thiopianimporters and exporters are presumed to have the capacity to use available products of the existing technology. An anonymous respondent fromthiopia Single Window Project believes that digitalization of international trade may notthed lenged by the ability and readiness of frivate participants⁴⁶ He stated that both importers and exporters have the capacity to integrate and buy any communication system when there is a need to do so.

Coming to the readiness of government agendines government of Ethiopia has enacted national ICT policy and government strategies according to the above anonymos respondent from the Ethiopia Single Windowroffect, the government is working for the achievement of electronic governmentivery of services two phases since 20²⁴⁷. The same respondent from the Ethiopian Single window Project stated that the government Ethiopia is working for the installation of electronic platform of international trade. Accordinghion, so far, the project is working to integrate 20 government agencies and other through single electronic windowsystem. The project hassal a second phase and in the coming phase, priority will be given for digitalization of transport documents he project is working on the development of enabling technological environment. Besides, stated before the government has also agreed ptorchase and install electronic customs clearance system technology with **aush** Korea company. The action of the governmentshows us that, it will be ready in the coming years in terms of technologywhich supportelectronic systems between the governmagencies and other stakeholders of internationalde

²⁴⁵ In recent times across the country especially the technology of mobile and internet is flourishing. The report of science and technology shows that there are aro **59**¢899,089 users of telecommunication service.

Coming to the readiness Ethiopia banks according to Mr. Yared Shiferaw, banks will not bereluctant to employ such system as they are the pioneer in terms of document and paymensity stem digitalization in our country²⁴⁸Unlike other sectors the banking sector has gone a lot in delivering electronic server believes that as far as there exerced system and workable legal environment banks may not be reluctant to electronic bill of lading. As a result, the technological readine of Ethiopian banks may note come a setback for introduction of electronic bill of lading.

Coming tothe readiness of Ethiopianational IT infrastructurand security of the system, in Ethiopia network connectivity is a big problem. There is no guaranty as to the existence of internet system even after a click. Moreeleetricpowermess and extededperiods of powercuts are acommon occurrence in our count As per Mr. EliasKiflemariam, an Expert of Ethiopian Customs Clearance Project office of ERCA, the big challenge of introduction of any electronic transaction system is problems related to the to the the ternet service. This shows that technological challenge related to internet service and reliability is one of atbleers that may affect introduction of electronic bill of lading in Ethiopia.

To conclude, as far as problems relating totionnal IT infrastructure and power supply problem are alleviated, in terms of technology it is sound to argue that Ethiopia is ready for the introduction of electrobits of lading in the near future.

²⁴⁸ Interview with Mr. Yared ShiferawLegal, Insurance and Claims Department Director at Ethiopian Shipping and Logistics Services Enterprisethe challenges of electronicial of lading, May 07, 2018.

²⁴⁹lbid.

²⁵⁰ Interview with Mr. Elias Kiflemariam, An Expert of Ethiopian Custms Clearance Project of ERCA, on the Challenges of Electronic Bill of lading ay 03, 2018.

CHAPTER THREE: LEGAL ISSU ES OF ELECTRONIC BILL OF LADIG AND ANALYSIS OF THE ETHIOPIA N LEGAL ENVIRONMENT

3.1. Legal Issues of Electroni Bill of L ading

3.1.1. Introduction

Although there is a shift towards using other mergotiable transport documents than the traditionabill of lading because of the drawbacks of the latter, the importance obill of lading still win out as a best marine transport document for the sake of having the advantage of its negotiability lowever, this glorified and unique transport document can onlyrevitalized if it can be made competitive in this commercial world with other nemegotiable marine transport documents by having both its unique feature of being negotiable and its recognition as a document of title.²⁵²

Today the international businessnood unity tends towards using this historical and uniquemarine transport document in the electronic format. However, the usage of electronic bill of lading is not as easy as the papoid of lading as its application face both technological and legal clearly s. As per one study conducted by United Nations Conference on Trade and Development on identifying the obstantes discourage the use of electronic transport documents the legal uncertainty that takes the upper hand even above the costs of singitation electronie nvironment and any associated on fidentiality concern²⁵³ Moreover, many legal scholars agreed that technology was not the real and the major challenge rather it is the orthodox belief of the legal community by sticking to the legal of that a document of title can only be issued and transferred in paper för the technology, the

²⁵¹Farhang Jafari, The Concerns of the Shipping Industry Regarding the Application of Electronic Bills of Lading in Practice Amid Technological Changel
²⁵²Id., p. 250.

²⁵³UNCTAD, The use of Transport Documents in international Trad&003, (UNCTAD/SDTE/TLB/2003/3) para 79

²⁵⁴ Ibrahim, Electronic Bills of Ladingmplications and Benefits for Maritimeransport in Senegal p.2-3.

international business community developed electribiiliof lading which actually outdoes all features of paperills of lading²⁵⁵.

As a matter of fact, unlike sales contract, contract of carriage is subject to detail regulation of law. Thus, national as well as the international legal instr**s**: **here** a vital role in the reglation of the overall application of transport documents. However, in case of electronic transport document especially electroihing lading, there is uncertainty which challenges the application and validity of electronic bill of lading.²⁵⁶Consequently parties to the international business transaction would become suspicious of the application of electroihing lading if there is uncertainty as to the validity or effectiveness of an electroihing.

Knowing this, United Nation as well as ational states come up with two possible legislative approaches to enable the use of electronic transferable records generally and electronic of lading specifically. The first approach is to create putely electronic fregime on electronic ill of lading which has no paper ased counterpart. According to this approach, the empowering legislation shall have all the substantive rules concerning the rights, obligations and characteristics of the €purely electronic, electronic bill of lading.²⁵⁷ This approach is called substantive approach. So far, this approach is employed by the Rotterd meles while defining electronic transport records.

The second approach is called functional equivalence approach. According to this approach, functional equivalence have to be set only for electronic functional equivalents of papebrased requirements. The second approach does not intend to affect the substantive law relating to the papersed electronibill of lading rather it only addresses hurdles to the usse electronic form that are there because of paperbased form requirements stated under the existing²⁵ affine functional approach excludes those transferable records which only exist in the electronic

²⁵⁵W.H. van Boom, Certain Legal Aspects of Electronic Bills ofading, European Transport Law ,1997, Volume 32, No, 1p. 924, p.1. [Here in after, van Boor©,ertain Legal Aspects ofle€ctronic Bills of Lading

²⁵⁶Ibrahim, Ele**t**ronic Bills of Lading:Implications and Benefits for Maritime Transport in Senegal p.2-3.

²⁵⁷Zvonimir ‡afranko, ,The Notion of Electronic Transferabled&rds, Intereulaweast2016,Vol. III, No. 2, p. 14. [Here in afterZvonimir ‡afranko, The NotionfdElectronic Transferable Recoilds ²⁵⁸ Id., p.7-9.

²⁵⁹ Id. p.14.

environment or which could develop in future **excit**/vely as electronic records. The functional approach is currently accepted and employed by majority of states which enacted electronic transaction laws. Besides, Model Laws, guidelines and convention enacted by international institutions have also **wietb**othe second approach with the exception of the Rotterdantes The first approach is no more in use since the actual tendency and practice at the global level is towaldgingnp the functional approactlegal issues regarding thregulation of electonic bill of lading mainly revolve around addressingetfunctional equivalents of aperbased requirement; among others, it includes permanent accessibility to the information, ability to preserve the original information, uniqueness, transferabilityityato identify the holder and the ability to authenticate the issuer.

3.1.2. Writing(Document) and Signature Requirement

The substantive law regulating transport document may require ithat lading should be made in a written document. The functional equivalent electronic transport document should in such cases fulfil the legal requirement of writing or document in order to make the record or the transaction valid and enforce able and en the come to be case obill of lading, by mercantile custom it has been used in the international business transaction in the form of a written document document find an express stipulation either under The Hading or the Hamburg Rules about a requirement that abill of lading has to be in writing. Let•s start with the Hamburg Rules, it stars that ill of lading is a €document.

²⁶⁰€ Joint IMDA-AGC Review of the Electronic Transactions Act (cap. 88): Review of aft UNCITRAL Model Law on Electronic Transferable Bords, available at < <u>https://www.imda.gov.sg/media/imda/files/inner/pcdg/consultations/constidtapaper/public</u> <u>consultationpaper--uncitral-model-law-on-etrs_10march-2017.pdf?la=e</u>, [last accessed February 20, 2018].

²⁶¹ Zvonimir ‡afranko,The Notion of Electronic Transferable records7-9.

²⁶² Luis E. Nova Electronic data interchange: Its **Be**fits in Trade Activities for Developing Countries MA thesis, World Maritime University 1999. [Unpublished, available at Digital Repository of the World Maritime University], p.15. Here in after is E. Nova, Electronic data interchange: Its Benefits iTrade Activities for Developing Countries

²⁶³ Krailerk Euarjai International Carriage of Goods by Sea: Problems in Bills of Lading and Their Impact in Australia and its Major Trading Partners in Asta. M Thesis, University of Tasmania, 1999. [Unpublished, available at Digital Repository of University of Tasmania], p.187. [Here in afterKrailerk Euarjai,International Carriage of Goods by Sea: Problems in Bills of Lading and Their Impact in Australia and its Major Trading Partners in Asta Interchange: Its Benefits in Trade Activities for Developing Countpias.

²⁶⁴The United Nations Convention on the Carriage of **G**adoy Sea, 1978 (Hamburg Rules), Article 1(7). [Herein after, Hamburg Rule]s

is not clear. Besidesthe term writing is defined by having illustrative list. Therefore, it is possible to argue that electronial of lading is recognized as document under the Hamburg convention.

Coming toTheHague Visby Rules, there is no definition **bil** of lading. However, The Hague Visby Rules do not expressly specify the af lading must be written on paper rather it only specifies that the carrier has the **todisty**ue⁶⁵ a bill of lading when requested by the consignor What does to mean bigsue? Is that **o** refer writing and document? It is not cleared. As a result, state courts tried to interpret the word like writing, document issue different ways while the question of functional equivalence raised. Some state courts interpreted it in an orthodox lwearg as others interpreted it by employing a purposive approach to have media neutral application of those instruments. Therefore, the fact that there are such difficulties while applying electronic bill of lading, the law has to have a say for the functable equivalent application of electronic of lading.

The other legal issue that needs a solution is the reliability and validity of an electronic signature. Signature is mostly regarded as the very important requirement for the authentication of evenyocument used in business as well as government activities.²⁶⁸It is practically known that a document which holds rights and obligation to be accepted in the court of law must be authenticated by the parties and mostly it is done by having the signature of the parties and this regard Johnson while appreciating the importance of signatsteeted that signature has four main functions:-

(1) To identify a piece as having originated from a particular person, bearing in mind that no two signatures are the same.

(2) To show the agreement of the person signing to the contents of the document be signed.

²⁶⁵ International Convention for the Unification of Certain Rules of Law relating to Bills of Lading ("Hague Rules"), and Protocol of Signature, 1924, Article 3(3). [Here in after, Hague Visby Rules]. ²⁶⁶ Brunner, Electronic Transport Documents and Shipping Rice Not Yet a Married Couple.25. see also Willem H. Van Boom, Certain Legal Aspects of Electronic Bills of Lading.1314 and Rouhshi Low, Replacing the Pape Bill of lading with an Electronic Bill of lading. Problems and Possible Solutions p. 193.

 ²⁶⁷Willem H. Van Boom, Certain Legal Aspects of Electronic Bills of Ladipg.15.
 ²⁶⁸Ibid.

²⁶⁹ Samantha PeeThe Development of the lading: Its Future in the Maritime Industryp. 235

(3) To show that the person signing realizes that the document is formal and that he intends to be bound by it.

(4) To show that the document is an original.

This shows that how much signature is the most important legal requirement for the admission and validity of a given document. International business transactions require the transfer of documents with the shipment as proof of the quantity and quality of the shipment and hence, authentication is given priority. It is seldom to find laws of a bill of lading which provided signature requirement as validity requirement forbill of lading.²⁷¹ However, by mercantile customary usage the requirement of signature is required as validity requirement forbill of lading.²⁷² The mercantile practice telles that the signature might not always be made in hand written, there are bill of lading signed either by a facsimile or rubber staffipThis shows that the mercantile practice is open afocommodatingany method of signature. Base the coming of electroic data interchange and electronic signature, there was no actual problem regarding the means of signature employed by the parties.²⁷⁴

In the HagueVisby Rules which in oneway or other way influenced most national states law regulating ill of lading, there is no any provision which requires the attes of lading has to be signed by the parties. However, article 14(2) of Hamburg Rules provide that abill of lading has to be signed by a person having the authority to do so. It also stated that €the signature on the lading may be in handwriting, printed in facsimile, perforated, stamped, in symbols, or made by any other mechanical or electronic means if not inconsistent with the law of the country where the bill of lading is issued.²⁷⁵However, by the fact that most national laws are crafted in light of the Hagu Visby rules, it is seldom to have such provision der national laws. The business community wants to become certain as to whether the courts accept an electric of authentication as a signature or not. This has to

²⁷⁰ Johnson C.Electronic Data Interchange and Negotiabhestruments a preliminary Review of someLegal Issue, SInternational Yearbook of Law Computers and Technology92, p. 10, as cited by Samantha Peel, The Development of Birleof lading: Its Future in the Maritime Industry, p. 236 ²⁷¹ Samantha Peel, he Development of the Il ading: Its Future in the Maritime Industry. 235 ²⁷² Ibid.

²⁷³ Ibid.

²⁷⁴ Ibid.

²⁷⁵ Hamburg Rules, Article 14(3).

be done through the instrument of law by legislating the functional equivalient of hand signature.

3.1.3. Uniqueness and Guaranty of Singularity

The very function of transferable ocuments is that they embody rights which represents the actual rights and oblignasti of the transaction Paperbased transferable documents due to their material nature are characterized by uniqueness⁷⁶Here, a papebill of lading required to be in a noisingle and original unique document that represents the rights embodied in such transferable paper; which in turn guarantees the singularity of these rights and liablit desy negotiation or assignment of such rights by the holder requires the physics determined of the singular and originabill of lading.²⁷⁸Therefore, in case of a paple of lading its singularity and uniqueness can be kept by having and transferring the original document as between all the parties which are participating in the transaction.

When we come to the case of electro**bilc** of lading, it requires more strict legal and technical requirement to guarantee uniqueness or singularity of the document as an electronic record can be copied in a way that generates a duplicat**edectocal** to and indistinguishable from the first of each per the report of UNCITRAL working group on electronic commerce, €if a person is to receive possessory title of a transferable instrument or a document of title by receiving it as an electronic message, the addressee will need to be satisfied that no identical message could have been sent to any other person by any preceding party in the chain

²⁷⁷€Joint IMDAAGC Review of the Electroic Transactions Act (cap. 88): Review of Draft UNCITRAL Model Law on Electronic Transferable Records,,, available at < <u>https://www.imda.gov.sg/media/imda/files/inner/pcdg/consultations/consultationer/public consultationpaper--uncitral-model-law-on-etrs_10march-2017.pdf?la=ers</u>, [last accessed February 20, 2018].

²⁷⁶Zvonimir ‡afranko,The Notion of Electronic Transferable recor**øs**18.

²⁷⁸lbid.

²⁷⁹ Joint IMDA-AGC Review of the Electronic Transactions Act (cap. 88): Review of Draft UNCITRAL Model Law on Electronic Transferable Records,, available at < <u>https://www.imda.gov.sg/media/imda/files/inner/pcdg/consultations/consultationper/public consultationpaper--uncitral-model-law-on-etrs_10march2017.pdf?la=ep, [last accessed February 20, 2018</u>

²⁸⁰United Nations Commission on International Trade Law Working Groupelyal Issues Relating to the Use of Electronic Transferable Recondetes by secretaria2011, p. 5, para.13.[Available at https://documentedas.org

ny.un.org/doc/UNDOC/LTD/V11/855/64/PDF/V1185564.pdf?OpenElement

In terms of technology, today it is possible to guarantee the uniqueness and singularity of a given elemonic transferable record by employing two means.

The first one is by using a central registry administered by a trusted intermediary. Nevertheless, to make transactions on central registry system, all parties of the given transaction must be registerendembers. However, when a nomember later on becomes part of the transaction an electrobili of lading needs to be replaced by a paperbill of lading.²⁸² Later on, thanks to the invention of block chain technology, it is possible to guarantee the uniques or singularity of electronic transferable record by simple circulation of the token in an open and decentralized platform. case of block chain technology, the transaction of electrobili of lading can be taken place peeto-peer on an open platform where no prior subscription to membership is required. This very characteristics of the token system can warrant worldwide reach of the participants by the fact the applicatiobilbfof lading involves the participation of enterprises from many besis parties like trader themselves, banks, carriers, freight forwarders, government both and the registry or token system.

However, both system would not work unless it is given sufficient port from the legal infrastructure to keep the singularity or uniqueness of electroihood lading. Therefore, there should be a means to prevent unauthorized replication of an electronic transferable ill of lading by the electronic system and sitnormal to be done by providing legal requirements though it may also be possible by providing technical requirements.

Besides, the paperill of lading shall be presented or retained in its original form. Here, there should be legal requirements what where the should be legal requirements what we be presented or retained in their original form.

²⁸³Koji TakahashiBlock chain Technology and Electronic Bills of Ladip@04.

[[]Here in after, UNCITRAL,Legal Issues Relating to the Use of Electronic TransferablerRsc (2011),A/CN.9/WG. IV/WP.115]

²⁸¹ Koji Takahashi, Block chain Technology and Electronic Bills of adding, The Journal of International Maritime Law2016, Volume 22, pp. 202011, at p. 204. [Here in aftekoji Takahashi, Block chain Technology and additronic Bills of Lading) ²⁸²d, p. 205.

²⁸⁴ld., p.205.

²⁸⁵Id., p.206.

3.1.4. Physical Possession and Transfer of Rights by Delivery

Transfer of a right and its performance embodied in a plaqueerd negotiable document can be achieved with themesfer of the actual or constructive possession over that document^{28.6} Any right to claim the performance cannot be detached from the physical paper.he person who physically owns the document is supposed to be the person who is titled to claim the right to claim the right to claim the right document is a formal requirement for acquiring the right to comport the document^{28.7}

However, in case of electronic bill of lading, the concept of actual or constructive possession does not work as there actual document to be transferred through this method. Therefore, there should be a means to have the possession of the right embodied on the electronic of lading. Physical possession is substituted by control in a case of electronic ill of lading. Generally, the system to transfer the rights and performance of electronic document generally and electronic control.²⁸⁸ Hence, the transfer of electronic document generally and electronic transferable record.⁹⁹ Here, the person with control of the electrobilt of lading is considered the holder capable of enforcing the electrobilt of lading. Thus, if control of an electronibill of lading is used as autostitute for physical possession of paperbased document, transfer of control serves as the substitute for delivery of an electronic bill of lading as delivery and subsequent endorsement used as transfer of a paperbased documer²⁸⁰.

²⁸⁶United Nations Commission on International Trade Lawgal Issues Rating to the use of ElectronicTransferable Record 2012, p.13, para.51. [Available]attps://documentsids ny.un.org/doc/UNDOC/LTD/V12/559/17/PDF/V1255917.pdf?OpenEle]n[Here in after, UNCITRAL, Legal Issues Relating to the use of Electronic Transferable Re(2005), A/CN.9/WG. IV/WP.118.]

 ²⁸⁷ Zvonimir ‡afranko, The Notion of Electronic Transferable recor**p**s18.
 ²⁸⁸ Id., p.5.

²⁸⁹ UNCITRAL, Legal Issues Relating to the Use of Electronic Transferable Rec(20d\$1), A/CN.9/WG. IV/WP.118 p. 12 para.43.

²⁹⁰ United Nations Commission on International Trade Lasegal Issues Relating to the use of Electronic Transferable Records: Proposal by the Governments of Colombia, Spain and the United States 2012, pp.1011, para.38. [Available atttps://documentsidsny.un.org/doc/UNDOC/LTD/V12/552/61/PDF/V1255261.pdf?OpenEler]h&UNCITRAL, Legal

Issues Relating to the use of Electronic Transferable Records: Propostate Governments of Colombia, Spain and the United Stat(23012), A/CN.9/WG. IV/WP.119.

Control and transferghts of an electronic record can be made by either the registry system or token system? In case of the registry system, as the identity of the owner of the electronic of lading is found in a separate independent registry system, control is to be made the registry system? Here, what is required is to make the integrity of the registry system. In case of token system fact that the identity of the holder electronic of lading is found in the electronic of lading itself may not be **a** such problematic²⁹³ Besides, any changes in the ownership of the rights can be known by alterations made directly to the electronic record itself and the process for trasfers of the bill. It is by the instrument of the law that the use of electronic bill of lading through control over that records be enabled.

3.1.5. Identification, Authorization and Authentication of Holder and Issuer

Identification and authentication issuer and holder have double fold benefits. It allows the exercise of control and verifies the validity of the chain of transfers of the electronic transferable recordil(of lading).²⁹⁵ The identity of the issuer who signs the original electronibill of ladingand of the transferor who endorses the electronic bill of lading to transfer it to another party is required to have a valid electronic signature²⁹⁶ Identification of the holder of electronic il of lading is very important to know the creditor and the beneficiary of theil of lading. As a matter of fact, the identity of the holder may not be known from the electronic record; as there is a possibility to be changed from time to tir²⁹⁷.

²⁹¹ UNCITRAL, Legal Issues Relating to the use of Electronic Transferable Records: Proposal by the Governments of Colombia, Spain and the United \$t(20012), A/CN.9/WG. IV/WP.119 para.39.

²⁹² UNCITRAL, Legal Issues Relating to the Use of Electronic Transferable Redadds1), A/CN.9/WG. IV/WP.115 p.7, para.22.

²⁹³ UNCITRAL, Legal Issues Relating to the use of Electronic Transferable Records: Proposal by the Governments of Colombia, Spain and the United St**(2005**2), A/CN.9/WG. IV/WP.11,9p. 11, para.41

²⁹⁴lbid.

²⁹⁵ United Nations Commission on International Trade Law, Legal Issues relating to the Use of Electronic Transferable records (continued), Notes by Statist, 2013, p.4, para.16. [Available at https://documents/ds-ny.un.org/doc/UNDOC/LTD/V12/559/11/PDF/V1255911.pdf?OpenElement]. [Here in after, UNCIRAL, Legal Issues Relating to the Use of Electronic Transferable Records

⁽continued) 92012),A/CN.9/WG.IV/WP.118/Add.1. ²⁹⁶ UNCITRAL, Legal Issues Relating to the Use of Electronic Transferable Redatist), A/CN.9/WG. IV/WP.115 p.8.,para25.

²⁹⁷ Id., p.8., para. 26.

In case of papebrill of lading, the person in possession the unique negotiable ill of lading is presumed to be the hold to be substituted by control of electribor f dading, as the physical possession is to be substituted by control of electribor f dading, the law has to come up with a mechanism to idjet the person who is going to be considered as the holder of the bid of lading at any time.

3.1.6. Evidential Value of ElectronicBill of Lading

As addressed under chapter two of this thebilisof lading has a function of being an evidence for receipt of goods and contract of carriages a receipt, the paper bill of lading evidences the quantity, condition(quality)daleading marks of the goods³⁰⁰ As evidence of a contract of carriage, the papileof ladingevidences the existence of the contrabetween the carrier and shipper. This shows that how much the evidential value doill of lading has to be given emphasis; as two of its basic functions is about evidence and evidence.

Electronicbill of lading is equally capable of describing the goods threed contracts in the same wayln case of a paper ill of lading, the paper itself can be brought before a court of law as evidence for receipt and contract of carriage. However, when we come to the casof electronic of lading, there is uncertainty as to whether it is admissible before the court of law or not. Most procedural rules dealing with the admissibility of evidence are crafted by taking the admissibility of paper based documentation intronsideration^{3,01}

However, though those laws are crafted by taking into consideration such paper documents, theoretically both under the common law and civil law legal system, there is a possibility for the admission of electro**bil**cof lading as evidenc**b**efore a court of law³⁰². Under the common law legal system, both documents and

²⁹⁸ UNCITRAL, Legal Issues Relating to the Use of Electronic Transferable Recadds1), A/CN.9/WG. IV/WP.115 p.8.,para25.

²⁹⁹ Supra pp. 2123, chapter two, section, 2.3.2., sub section 2.3.2.1 and 2.3.2.2.

³⁰⁰ Samantha PeeT,he Development of theil of lading: Its Future in the Maritime Industry p.239.

³⁰¹ Rouhshi Low, Replacing the Pape Bill of lading with an Electronic Bill of lading: Problems and Possible Solutions, p.197.

³⁰² Krailerk Euarjai, International Carriage oGoods by Sea: Problems in Bills of Lading and Their Impact in Australia and its Major Trading Partners in Asja190, Rouhshi Low, Replacing the Paper Bill of lading with an Electronic Bill of lading: Problems and Possible Solutions, p2098and Farharg Jafari, The Concerns of the Shipping Industry Regarding the Application of Electronic Bills of Lading in Practice Amid Technological Change.214215.

computer records are grouped as hearsay evident black of a lading could satisfy the best evidence rule of common law legal system and could be accepted as indence as far as there is no available evident black of the civil law legal system, there is a principle that all material evidence can be admissible to establish the material trut solution of law under every legal system as there is the possibility to prohibit such admission. Today, in most jurisdictions; as they are aware of the influence of technology in a day to day business transaction; electronic records are recognized sevidence.

3.1.7. Issues Related to Amendment of Electron Bill of lading

Once an electronibill of lading is issued, later on, that electronic record may be subject to amendment or correction. This may be done for different reasons among others transfer, correction, subrogation, succession, splitting and combining of the record.³⁰⁶ For different reasons erromsay occur on a given electronbid of lading while it is issued or later on. To mention, the information provided by the requesting party may be different from what is actually recorded under the electrobid and lading if there is an issuance of electronic records without a request, if there is omission of details to be recorded and incorrect early termination of the electronic record.³⁰⁷ Besides, electronibill of lading may be split or combined for different reasons; for instance, a given electrobid of lading may be split for partial performance³⁰⁸ These all issues have to addressed through contractual or legislative actions.

³⁰³ Krailerk Euarjai,International Carriage of Goods by Sea: Problems in Bills of Lading and Their Impact in Australia and its Major Trading Partners in Asja 190,Rouhshi Low, Replacing the Paper Bill of lading with an ElectronicBill of lading: Problems and Possible Solutions, p. **198**0 and Farhang Jafari, The Concerns of the Shipping Industry Regagdhe Application of Electronic Bills of Lading in Practice Amid Technological Chan**ge**.214215.

³⁰⁴ Krailerk Euarjai, International Carriage of Goods by Sea: Problems in Bills of Lading and Their Impact in Australia and its Majdirading Partners in Asi p.191.
³⁰⁵ Id., p.200.

³⁰⁶ UNCITRAL, Legal Issues Relating to the Use of Electronic Transferable Records (continued) (2012), A/CN.9/WG.IV/WP.118/Add,1p.1.para.42.

³⁰⁷ UNCITRAL, Legal Issues Relating to the Use of Electronic Transferable Re(ccondisinued) 92012), A/CN.9/WG.IV/WP.118/Add, p.3-6, para.2027.
³⁰⁸Ibid.

3.1.8. Formation of Contract Between the Endorsee and the Carrier

Bill of lading is an evidence for the contract of cagreabetween the carrier and the shipper; not a contract itself. Therefore, there may not be a problem when the dematerialization issues come, as the contract between the carrier and the shipper is to be governed by a prior written or oral contract notbilleof lading. However, regarding the relationship between the carrier and the prior endorsee, it is not merely evidence of contract carriage rather it is a contract **at effet** relationship between the shipper and carrier would not have at effet relationship between third parties (banks, buyers or other endorsees) and the ³t³Reithrer, the terms of abill of lading will govern the overall relationships as between those endorsees and contracting carrier; thus by default, it is a contracting endorsee.

In case of papebrill of lading, the process of formation of contract can be conducted as any documentary contract. However, when **bill** configure for a dematerialized, there are legal concerns that need to be addressed. The first issued doessed is whether a contract can be validly concluded between parties using electronic data and interchange method or not; mostly by the general obligation law. Secondly, the when and where of formation of a contract between the carrier and pathing endorsee have to be addres 31 d.

3.1.9. End of Life Cycle of Electronid Bill of Lading

The life cycle of electronicial of lading may end up for different reasons. The obvious reason is the performance of the obligation. Under both the registry as well as the token system, end of life cycle of electronic lading through performance needs to be regulated¹²Like performance, refusal to perform and partial performance of the rights and obligation embodied in bille needs careful regulation.

³⁰⁹ Emanuel Laryea Paperless Trade: Opportunities, Challenges and Solutions, Kluwer Law International, 2002, p.66. [Here in after manuel Laryea, Paperless Trade: Opportuities, Challenges and Solutions 310 lbid

³¹⁰ Ibid.

³¹¹Samantha PeeT,he Development of theil of lading: Its Future in the Maritime Industry p.241.

³¹²UNCITRAL, Legal Issues Relating to the Use of Electronic Transferable Records (continued) 92012), A/CN.9/WGIV/WP.118/Add., p. para.**30**3.

Besides, there are circumstances which necessitate replacement or conversion of electronicbill of lading to paperbill of lading or the vice versa. It could not be done arbitrarily rather there should be contractual or legislative mechanisms to³t³o so. Moreover, once the rights and obligations underbilleare discharged, electronic bill of lading needs to be terminated to avoid its furtberculation and possible manifold requests of performan²t⁴.For instance, termination of electron¹titl of lading in a registrybased system takes place with recording of the full performance of the obligation on that ill.³¹⁵

3.1.10. Legal Issues Relation to Third Party Operator System

Unlike the token system in case of registingsed systems, thipparty registry operators are required. Thus, legislation governing elect**toih**iof lading has to have explicit provisions on the regulation of thatherd-party operators^{3,16}The regulation can be at entry, during operation as well as at existing. At entry stage, the law has to state the minimum requirements to be fulfilled to apply for operating registry system. Requirements like capital, the form of **nip** or and information on technological, financial, human and other resources to be employed has to regulate^{31.7} At the operation stage, there may erroneous communication, fraud, system breakdown or other technical problems. Determination of liability f such failures has to be addressed. Besides, the liabilities of users for erroneous communication has also be addressed. Furthermore, dispute settlement mechanisms have to be established.

³¹³UNCITRAL, Legal Issues Relating to the Use of Electronic Transferable Records (continued) 92012), A/CN.9/WG. IV/WP.118/Adφ. 10, para., 41 and 42.

³¹⁴ Id., p. 10., para., 50.

³¹⁵ Id., p.11., para., 54.

³¹⁶ Id. p. 11., para. 55.

³¹⁷ Rouhshi Low, Replacing the PapeBill of lading with an Electronic Bill of lading: Problems and Possible Solution, p.202.

3.2. Analysis of the Existing Ethiopian Legal Environment in Light of Its Compatibility for E lectronic Bill of L ading.

3.21. Introduction

Ethiopia has laws governing contract of carriage supported **byiltbé**lading since 1960. However, the recent advent of information communication technology in the international commercial transaction has brought some changes on the documentation process of foreign trade generally and maritiamsport sector specifically. As a result, the paperless international business transaction is developing in the maritime sector The very important case istroduction of electronic transport document like ærlectronic bill of lading as a substitute for paper transport document of Ethiopia is compatible in accommodating introduction of electronic bill of lading or not.

3.2.2. Policy

As per the study conducted by UNCTAD on the economic, social lægnal implications of electronic commerce and electronic international transport services for developing countries, there are policy questions to be addressed by national governments¹⁸. The study interalia raisettle commitment of overnments in giving due consideration to adapting national laws and regulations to foster electronic commerce and paperless international trade as a policy question this study emphasized on the role of developing countries government through policy instrument for enhancing theompetitiveness of developing countries in the international paperless trade. In particular, the expert group found out that a policy to reform customs procedures and application of information technology is a timely question that needs an imminent ans³⁰ accordingly, states crafted transport policy, foreign trade policy, logistics strategy in light of the international technological development to alleviate the grounded problems of foreign trade.

³¹⁸UNCTAD, Electronic Commerce and International Transport Services: Best Practices for Enhancing the Competitivesse of Developing countsiep.4, para. -44. ³¹⁹Id., p.5, para. 7.

³²⁰Id., p.6, para.11.

When we come to the case of Ethiopia, recently it hasted by the national logistics strategy and transport policy at the national level. As per the draft national transport policy of Ethiopia, inadequate institutional arrangements; lack of proper laws, regulations and procedures which are consistent and contexpate create a conducive climate for the growth of the transport sector are identified as the major challenge of the general transport sector sector are identified as the major technology ICT, integrated logistics and supply chain managemeindle is the transport as to one of the triggeng factors which necessitates having policy in the transportations ector

For addressing such challenges, the government is recommended to encourage introduction of appropriate transport technology and strengtheaptblecation of ICT and database developmentements also recommended to review, update and consolidate the legal and institutional framework by taking technological developments in the sector into consideration by technology and techniques by setting standards and enforcement mechanism through regulation; as a policy direction.

For the maritimeransportand transit sector; the draft policy identified high transport costsand delays on foreign trade in the logistic chain and lack of updated legislation of maritime law in light with modern technological development should have to ensure freestive and efficient transit and logistics operation, update, adapt and disseminate maritime laws, international convention and to introduce the effective usage of information communication technology in the sector.

Although both the national transport policy and national styatere at the draft stage, it shows the government commitments towards transforming the existing legal framework on the maritime and transit sector to accommodate the information communication technology development in the sector. Thus, policy wise share i

³²¹Draft National Transport Policy of Ethiopia, p.26.

³²²ld, p.33.

³²³Id., p. 35.

³²⁴ld., p. 58,

³²⁵ld. p.59.

clear tendency towards employing electronic data interchange in the documentation of foreign trade documents which includes of lading.

3.23. The 1960 Maritime Code

Ethiopia is not a party to any one of the international instruments gogerariage by sea. Hencein Ethiopia, the major law governing carriage by sea as a whole and bill of lading in particularis the 1960 maritime code Ithough it is not clearly known as to the material source of the code; as per Tsehai Wada, the then conventions and commercial practice governing maritime affairs are regarded as the possible source of the code. It was the International Convention for the Unification of Certain Rules Relating foills of Lading [The Hague Rules] that influenced almost laof the national law governing contract of carriage supported by the bill of lading and enacted before Hamburg Rules.

As the Ethiopia maritime code is enacted in 1960 in which the only governing and widely applicable rules on this area is The Hague solution logical to conclude those provisions of the code governing contract of carriage support bid by lading are influenced by the terrone. It is also found that many provisions of the Code are very similar to that of The Hague Rules and other adalegislation adopting the Rules.³²⁷

Let•s examine the specific part of the code governing contract of carriage as to whether it is possible to issue an electro**bilc** of lading or not. Under the 1960 maritime code, there is no specific provision which expressly defines the**bile**rm of lading rather only contract of carriage defined. The law definescontract of carriage as €a contract of carriage covered**bily** af lading or any similar document of title in so far assuch documentselate to the carriage of goods by sea²²⁸..., €[emphasis add] d, According to this definition, there is no indication as to where the bill of lading is only in papeformat or not; rather it only emphasizes on the nature of the document that is being a document of title.

³²⁸Tsehai Wada, ,Package limitation, under International Convestizend Maritime Code of Ethiopia: an overview•, Ethiopian Journal of Law, Vol. 21, pp.-**137**, p., 128129. [Hereinafter, Tsehai Wada, ,Package limitation, under International Conventions and Maritime Code of Ethiopia ³²⁷Hailegabriel Gedicho,Maritime Law Teaching Material JLSRI, 2008, p.12. [Here in after, Hailegabriel Gedicho,Maritime Law Teaching Material] ³²⁸Maritime Code of the Empire of Ethiopia (2).

Should the phrase €any similar document of title, be interpreted to include an electronicbill of lading? A look at the literal interpretation of the phrase, we can argue in favor of its inclusiveness. What does the phrase ... €such documents, refer to? is that a document required or referring documents of title in plural form? It is not referring a document requirement rather simply it is referring any documents of title. However, it would become illogical to conclude that it was the intention of the then legislature to recognize electronic of lading as the possible negotiable document which covers a contract of carriage; as this law was enacted while there wasno practical knowledge about nonetbees technological possibilities

Besides, under the special part governing contract of carriage supported lby of lading is to be issued. Accordingly, as per article 181 of the maritime code, €[t]he carrier or his representative shadifter receiving the good is sue to the shipper a bill of lading.,, € [emphasis add dd Here, the carrier is required to issbid of lading after receiving the goods. It does not expressly specify that af lading must be written on paper rather it only requires the carrier to issbelther he same approach is adopted under The Hague Rules. Therefore, as far as there is inco speci requirement to make it in paper format, still it is difficult to conclude that electronic bill of lading is excluded from the ambit of article 181 of the code. However, it would not be the intention of the legislature to recognize electronic counterpar the papebill of lading as the time in which paper is the only recognized mode of issuing such types of document. Moreover, the law also provides thatil€[af] ladingshall draw up in two orginals, of which one shall be livered to the shipper and the other retained by the carrier., Unless it is issued in paper format, there would not be two originals that can be delivered and retained at the same time. Therefore, for this researcher, as far as electronic medium of communication was not known while the maritime code of Ethiopia was enacted and there is the requirement of two originals papebill of lading, it is sound to conclude thatectronicbill of lading is recognized under the maritime code of Ethiopia.

Coming to the signature issue, as the Ethiopian maritime code, \in [t] bills of lading shall be dated and signed by the caorier representative^{3:0} It is different

³²⁹ Maritime Code of the Empire of EthiopiArt. 180-209.

³³⁰Id., the introduction sentence of article 189.

from the Hague Rules in this regard; as there is no signature requirement under the latter. The law states thatll of lading has to be signed; however, it is silent as to the mode of signature. The signature may be in a mechanical or electronic means. As the maritime code is silent on the mode of signature, it is logical to argue that, it is media neutral. However, still would be difficult to conclude that it was the intention of the legislature to recognize electronic signature at the time in which the concept of digitalization was not known.

To conclude, though the maritime code does not clearly stipulate both doccarnde signature requirement for issuancebid of lading; it would not be the intention of the legislature to include the electronic counterpart of paper lading as a transport document while enacting the code.

3.24. Multimodal Transport of Goods Proclamation

As discussed in chapter two of this paper, multimodal transport docubiletoof (lading) is one types obill of lading.³³¹ In Ethiopia multimodalbill of lading is regulated under the separate law. Before the enactment of the Multimodal Transportation of Goods Proclamation, multimobial of lading is not properly regulated.³² The imminent driving force for the enactment of the proclamation was the Ethiof Djibouti Multimodal Transport System Agreement concluded in 2006. As a result, in2007 the government enacted multimodal transport of goods proclamation.

Let•s examine whether electronbild of lading has a place under this proclamation. Under this law, multimodal transport documebtll (of lading) is defined as €a document which endences a multimodal transport contract, the taking in charge of the goods by the multimodal transport operator, and an undertaking by him to deliver the goods in accordance with the terms of that cont³⁴totlultimodal transport document bill of lading) is defined as **e**locumentDoes it to mean only pap**b**ill

³³¹ Supra p. 30, chapter two, section 2.3.3, sub section 2.3.3. 4.

³³² According to Tshai wada, only four provisions are there to regulate such types of bill of lading under both the commercial and maritime code, pp4&17

³³³ Tsehai wada, MultimodalTtransportation of the sehai wada, MultimodalTtransportation of Goods under Ethiopian Law, Vol. XXII, No. I, 2009, pp.49. [Hereinafter, Sehai wada, MultimodalTtransportation of Goods under Ethiopian Law

³³⁴ Multimodal Transport of Goods Proclamation No. 5**A8**ticle 2(4).

of lading? The literal interpretation of the wordocumentis to refer paper multimodalbill of lading.

However, article 4 of the proclamation which deals about the issuance of multimodal transportbill of lading provides that €[b]e signatures in the multimodal transport document may be in handwriting, printed in facsimile, stamped, in symbol or made by any other mechanical electronic means.,,€[emphasis add],d. It is recognized that the signature on the multimodal transport document can be made by electronic means. Does electronic signature presuppose electronic redenychot be, it is not sufficient to say thatelectronic multimodabill of lading is recognized under the proclamation.

But, when we look at the subsequent two provisions; it raised doubt as to the recognition of electronic multimodatill of lading proper. Let•s analyze each of them; article 5 of the proclamation which deals about-megrotiable multimodal transport document stees that €a nemegotiable multimodal transport document may be issued by making use of any mechanical and electronic means or other means preserving a record of the particulars...., This provision adopting electronic means of recording recognized the uste the information technology for the issuance of non-negotiable multimodal transport document is a transport document which only performs the function of being an evidence of multimodal transport contraated receipt of goods by the operator. In this case, the originality of this document may not be required while delivery of the goods is performed; mereindification of the consigneley any meansis sufficient. Thus, it can be recorded electronically arransferred to the consignee.

Let•s come to the case of article 6; which address issues of negotiable multimodal transport document. Unlike the preceding provision, it is silent as to whether the document can be in electronic record or not. Is that finter al omission of the legislature? Besides, there are terms which indicate that negotiable multimodal transport document is to be issued only in paper format. For instance, the phrase more than one original inder the English version and the phrase $\tilde{o} \ i \ E$ $\ddot{E} \ 0 \cdot \ddot{o} \ p \ Ø$ under the Amharic version presupposes papeof lading as there is no the concept of copies and more than one original in case of electric terms of the side of the side of the terms of the side of the phrase of the phras

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lading. For this researcher, the above phrases and the fact that artisleiksint as to whether electronic counterpart is possible or not unlike the preceding provision shows that the legislature only intended to have paper negotiable multimodal transportbill of lading, unlike the nonnegotiable one.

Nevertheless, as far **as** electronic signature is recognized under article 4 of the proclamation which governs all multimodal transport documents, still it is possible to argue that electronic negotiable multimodal transpidrof lading is recognized. Despite the law makesifterence on digitalization of negotiable and nonegotiable multimodal bill of lading, it is unhidden fact that unlike the maritime code, this proclamation gave clear legal recognition for electronic multimbidat flading.

The next issue is as to wither the provisions are sufficient enough to address legal issues of electronibill of lading. As discussed in the first part of this chapter, there are many legal issues that need attention upon recognition of electricitading. Under this proclamation, nothing is stated more than indicating that the multimodal transport document and signature may be issued and signed in electronic form. It does not address how the originality, singularity and uniqueness of electricitatical lading are to be guaanteed. Besides, it does not also address how the requirement of physical possession and transfer of rights by delivery is to be performed when the multimodal transport document is in electronic form. Moreover, issue like how electronic multimodabill of lading can be amended and corrected is not addressed. Furthermore, it does not also address legal issues regarding the conversion of electronic bill of lading to a papebill of lading and vice versa, issues related to end of life cycle of electronicbill of lading liability about erroneous communication and other issues that need the attention of the law.

3.25. The General Contract Law of Ethiopia

As discussed in part one of this chapterite relationship between thipdarty endorsee and carrier is governed by **bile** of lading itself. Here, unlike the relationship between the shipper and the cal**bile** of lading is not a mere evidence rather it is also a contract of carriage. It **eso** gnized under the Ethiopia maritime code governing bill of lading. The law stated that terms of a contract of carriage between the carrier and shipper can be brought againsplaning holder of abill of lading if and only if the third-party holder knew of terms of the contract of carriage³³⁶ This provision impliedly tell us that the relationship between third party holder and carrier is only subjetor terms of thebill of lading issued by the carrier.

Thus, in effect, the bill of lading is not only an evidence of contract of carriage as between the carrier and shipper but also a contract itself for the relationship between the carrier and hird-party holder. Therefore, in a case of electrobild of lading, what is to be addressed by the law is ordely limited to its recognition as transport document rather issues related to electronic formation of contract has to be taken in to consideration; as it can be a contract itself beyond being an evidence for contract of carriage. The very important is that needs to be addressed when we think of electronic bill of lading as a contract are concerns relating to when and where a new contract was formed between the carrier and there and there are or Besides, while a set of lading is a contract, it is clear that; it cannot be made or Billy of lading as a contract formation of being in written or electronic record from.

Coming to the Ethiopia general contract law, as per article 1681 (1) of the Odde offer and acceptance €may be made orally or in writing or by sign or...by a conduct..., From this provision, it can be deduced that the law does not prescribe any method of communicating offer and acceptance to form a contract. Thus, there is no prohibition under the Ethiopia general contract law to have electronic contracts. This in effect entitles parties transacting in business to conclude contracts by electronic means by using the-salled principle of party autonomy.

³³⁵ Supra p. 68, Chapter Three, section 3.1, sub section 3.1.8.

³³⁶ Maritime Code of the Empire of Ethiopiakrt. 194(2).

principally under Ethiopian general contract law, it is possible to issue electroichic of ladingby employing the party autonomy principle.

However, there are subsequent issues that need to be addressed by a given contract law which looks for the formation of electronic ontracts. The mere fact that the law does not prohibit the formation of contract through electronic communication is not a guaranty for having the proper formation of electronic contracts. The Ethiopia general contract law does not address issues **detate**onsent in case of formation of an electronic contract³³⁷

For the case at hand, it is not known as to whether the mere transfer of electilization of ladingthrough control amount as a conclusion of contract of carriage as between the third-party endorsee and the carrier. Moreover, under the Ethiopian general contract law, there is formality requirement providedhavevalid formation of contract. As stated beforeball of lading cannot be made orally; rather it has to be prepared either in written cany other form which can able to achieve its functions. Thus, there is an obvious requirement by law or custom of merchants to make it indistinguishable form. The Ethiopian general contract law requires the signature of the parties if that contract is queired to made in written form³²⁸. Regarding the mode of signature, the law clearly states that a written contract shall be affixed by the handwritten signature or thumbark of contracting partie³³⁹.

Therefore, though the law doesn•t prohibit formation of a contract through electronic means; our general contract law is not compatible to form electronic contracts; as the law fails to address issues relating to the characterization of consent and functional equivalence of signature and written requirement.

³³⁷Gebrehiwot Entehawu, The Legal Framework for Electronic Contracts in Ethiopia with Special Emphasis on General Contract Lappe. 114.

³³⁸ Civil Code of the Empire of Ethiopia, 1960 egarit Gazzetta Extraordinar Issue, Pro. No. 165, 19th Year, No.2, Art 1727(1). [Here in after jvil Code of the Empire of Ethiopia ³³⁹ Id., Art., 1728.

3.26. Security and Customs Laws of Ethiopia

As stated in chapter two of this reseated, of lading enables sale and purchase of goods that are in the process of transporting sesides, when the transaction is financed through banks and documentary credit system, as the bank provides finance to the buyer; it is the ill of lading which serves as security for the financing bank. The traditionabill of lading fulfills this requirement of security by the fact that it is easy to identify its originality through the physical presence of the document.

Coming to the Ethiopia security law, any transferable securities can be pletaged. Under the commercial code or civil code of Ethiopia, cannot find any provision which provides that electronic transferable records can serve as security notwithstanding that both the warehouse receipt proclamation and multimodal carriage of goods proclamation of Ethiopia gives electronic warehouset receipt electronic multimodal transport document the same legal status with the paper counterpart. However, later on, the Ethiopian Commodities Exchange come up with internal working procedure which allows pledging of electronic warehouse receipts held by it³⁴² This shows that pledging of electronic securities is possible in Ethiopia law. However, it is only limited to electronic warehouse receipt. Thus, as the basic security laws of Ethiopia which are scattered in different laws of the country does not giverecognition for pledging of electronic securities and as there is no special law which regulates electronized of lading, it is fair to conclude that electronized of lading cannot serve as security in Ethiopia before having a special provision which allowsdoingso.

Coming to the **u**stoms lawof Ethiopia, it is found that electronic records are given equal recognition with paper documents. Accordingly, as per article 2(25) of the Ethiopia custom proclamation document is defined as €any documenttepdesen physically or by electronimeans to theud hority to complete customs formalities.,, Unequivocally the law clearly recognizes the admissibility of electronic records as equivalent document with paper documents for purpose of conducting customs formalities. Transportdocuments which include bail of lading are among the

³⁴⁰ Supra p. 2526, chapter two, section 2.3.2, sub section 2.3.2.3.

 ³⁴¹ Commercial Code of the Empire of Ethiopia, 1969 garit Gazzeta Extraordinary issue, Proc.
 No. 166, 19 Year, No. 3, Art. 950. [Here in after commercial Code of the Empire of Ethiopia
 ³⁴² Rules of the Ethiopian Commodities Exchargev.No. 5/2010 Article 9.5.2.1(d) and 9.2.4.

required document to be the submitted before the authority along with the goods declaration for completing custom formalities. The literal interpretation of this provision tells us that, electronized of lading is recognized as document under the current custom law of Ethiopia in order to complete customs formalities. Besides, the law also recognizes completion of customs process through the electronic exchange system?

Any person is allowed to process and submit reports on €the arrival or departure of a means of transport and travelers taken on board or goods loaded; to complete custom formalities, to effect payments anot eceive an order of release of goods electronically through the electronic exchange system to be developed by the authority, ³⁴⁵ However, subsequent provision of the custom proclamation which deals about verification of electronic information provides that mission of original documents may be required to check the accuracy of electronically transmitted messages. Thus, what is recognized under the Ethiopia custom proclamation is submission of electronic copies of paper documents; not pure electronic documents As discussed in the first part of this chaptêt the originality of electronic beverified by bringing an original papebill of lading

3.2.7 The Ethiopian Evidence Law

It is known that so far Ethiopia does not has exparately codified evidence law. However, the absence of codified evidence law does not mean that Ethiopia does not have evidence law. The Ethiopia evidence laws are found by being scattered throughout both the substantive and adjective laws of the **gowhtch** are enacted by the 1960 codification process or later on. Besides, by the fact that our substantive and procedural laws are influenced by both the common law and civil law legal systems, our evidence law is influenced by both the common law avid law evidence rules. To begin with, under the 1960 civil code, €[a] written instrument shall be conclusive evidence, as between who signed it, of the agreement therein

 ³⁴³ Customs Proclamation, 20, Federal Negarit Gazetta Proc. No.859, 20th Year No. 82 Article
 9. [Here in after Customs Proclamation N659/2014]

³⁴⁴ Id, chapter twelve.

³⁴⁵ Id., Article 78(1) (a d).

³⁴⁶ Supra p. Chapter Three, section 3.1., sub section, 3.1.3.

contained and of the date it bears., The law recognizes that written instrument is conclusive evidence for those who signed it to perform the underlying transaction. While the code was enacted, the concept of electronic records was not known; as a result, the 1960 civil code was enacted by taking the admissibility of **-based** documentaion into consideration.

However, as the civil code is influenced by the civil law legal system, it is still possible to argue that electronic records generally and elec**bridnoć** lading can be admissible; as there is an accepted principle in the **axivil** egal system which provides that all material evidence can be admissible to establish the material truth. Thus, in a case when electronic record is brought before a court of law as an evidence, it can be accepted by alleging this principle unles **bjtex** hotherwise by specific legislation.

Coming to other laws, under the maritime coderethe no provisions regarding the admissibility of bill of lading. However, in the multimodal transport of goods proclamation subject to the interpretation providet bre under this part, electronic multimodal transport document is admissible before court of Adv Moreover, the 2016 computer crime proclamation of Ethiopia,

[a]ny documentor a certified copy of the document or a certified printo with any electronic record relating to computer data seized in accordance with this Proclamation may be produced as evidence during court proceedings hall beadmissible³⁴⁸

This provision tells us that Ethiopia courts are required to accept electronic records as an admissible evidence when there is a need to do so. Generally, knowing that the Ethiopia legal system is the hybrid of common law and civil law system and also electronic records are admissible in case of the criminal proceeding, this thesis writer believes that nothing is there to prohibit admission of an elect**bolhiof** lading as an evidence under the current Ethiopia court system.

3.2.8. Draft E- Laws

The Ministry of Science and Technology of Ethiophias drafted both electronic commerce and signature law with the support Uprfited Nation Economic Commission for Africa (UNECA) as of 2009. The draft electronic commerce law

³⁴⁷ Multimodal Transport of Goods Proclamation. 548, Article 10(1).

³⁴⁸ Computer Crime Proclamation, 2017 deral Negarit Gazetta Proc. No. 95822nd Year, No. 83 Article 32. [Here in after Computer Crime Proclamation 58/2016].

provides that €electronic documentsals/have the legal effect, validity or enforceability as any other document or legal writing by doing so, this draft law avoids the legal uncertainty created related to the validity, enforceability and admissibility of electronic records. The law alsovides that an electronic record satisfy the written requirements of any law as far as the information in the record can be accessible and usable for subsequent references ides, though it has no detail regulation; it recognizeelectronic signature^{5,1} Moreover, the draft law also addresses legal issues related to electronic contracts like how an electronic contract is to be formed, the validity of electronic contracts which includes the where and when about of formation of electronic contracts. Last but not least, the draft electronic data message or electronic document as an evidence with detail provision as to its submission.

However, this draft electronic commerce lawsingent as to whether it is applicable for carriage of goods and transport documents or not. Electronic commerce laws including the UNCITRAL Model Law on electronic commerce clearly recognize and regulate issues relating to electronic contract of carriangle transport documents. But, the draft electronic commerce law of Ethiopia though it is somewhat similar to the UNCITRAL Model Law in other aspects, it fails to have a provision on electronic carriage contract and transport documents. Therefore, for this researcher, it is intentionally leftythe legislature. Hencethe draft electronic commerce law of Ethiopia is not pplicable to electronic shipping documents as there is no provisions on recognizing electronic data on shipments.

Coming to the draftelectronic signature law of Ethiopia, electronic and digital signature is recognize³⁵³. It also has detail regulation on the licensing and authorization of the domestic certificate authorities and on recognition of foreign certificate authorities in Ethiopi³⁵⁴ It provides rules regarding the appointment of root certificate authority and its power and function to be fulfilled

³⁴⁹ Draft Electronic Commerce Law otheopia, Article 5.

³⁵⁰ Id., Article 6.

³⁵¹ Id., Article 7.

³⁵² Id., Article 1317.

³⁵³ Draft Electronic Signature Law of Ethiopia, Article85

³⁵⁴ Id., Article 20.

³⁵⁵ Id., Article 9-10.

for having license as a certificationt**bo**rity, validity period and denial of licens²⁶, about suspension, revocationeturn and termination of certificate of license and service³⁵⁷, and also about auditing of the certificate authority by the root certificate authority.³⁵⁸ Moreover, it has also detail regulation regarding the function of certification authority and the reinperment to be fulfilled for conducting such businessike reliable financial capacity, use of trustworthy system and others technical and regulatory requirements.

Furthermore, the draft electronic signature law of Ethaiopiddresses issues regarding the iability and obligation of certification authorit D. Last but not least, the law also provides obligation of subscribers and third party relying on the transaction.³⁶¹ any subscriber is required to provide accurate information, to safeguard private key, tequest suspension or revocation of the certificate when it found that the security of private keys is compromised. The writer of this thesis believes that the draft electronic signature law is good enough for signing electronic bill of lading both in case f registry and token model. As a result, I would say there is no limitation on this issue under the draft electronic signature law of Ethiopia.

³⁵⁶ Draft Electronic Signatue Law of Ethiopia, Article 11-13.

³⁵⁷ Id., Article 1419.

³⁵⁸ Id., Article 21.

³⁵⁹ Id., Article 26 27.

³⁶⁰ Id., Article 41-43.

³⁶¹ Id., Article 4548.

CHAPTER FOUR: REGULATION OF ELECTRONIC BILL OF LADING UNDER THE UNCITRAL MODEL LAWS AND LESSON FOR ETHIOPIA .

4.1. Introduction

The United Nation Commission on International Trade Law is an institution established under the auspices of UN General Assembly to harmonize and promote international trade law³⁶² UNCITRAL³⁶³, since its establishment prepared a wide range of modern harmonized rules on commercial transactions. The commission among others haseen conducting the following itrepare Model Laws and rules which are acceptable worldwide, legal and legislatijuides and recommendations of great practical value, updated information on case law and enactments of uniform commercial law, gives technical assistance in law reform projects and conducts and coordinates regional and national seminars on uniform commendations.

The substantivevork on topics within UNCITRAL•s work program is given to a team called working groups. **Se**r, the commission by establishing six working groups has been working on different international trade law ister third and fourth working groupon transport law and electronic commerce are the specific working group tasks which address issues of electrorainsferable records and transport documents⁶⁶

The 1996 UNCITRAL Model Law on Electronic Commerce, the 2000/CITRAL Model Law on Electronic Signature and the 2017 UNCITRAL Model Law on

³⁶³ The United Nation Commission on International Trade Law ³⁶⁴ Ibid.

³⁶²€About UNCITRAL,, available a<u>http://www.uncitral.org/uncitral/en/about_us.h</u>tn**i**last accessed on April 23, 2018].

³⁶⁹Working group I, was tasked to deal with micro, small and mestizzerd enterprises, procurement, privately financed infrastructure projects and onetilimits and limitation. The working group II deals with arbitration and conciliation, international sales of goods and international contract practices. The third working group addresses issues about instantendispute settlement reform, online dispte resolution, transport law and international legislation on shipping. The fourth working group was tasked to address issues relating dot ronic commerce, electronic data interchange, international payment and international negotiable instrume The fifth and sixth working group was assigned to address legal issues regarding insolvency, new international economic order and security interests respectively.

³⁶⁶ About UNCITRAL,,, available at<u>http://www.uncitral.org/uncitral/en/about_us.ht</u>n[last accessed on April 23, 2018].

Electronic Transferable Records are part of the UNCITRAdded Lawswhich addressed legal issues of electrobrit contractions a set of accepted rules at the international arena which addresses legal challenges relating to the application of electronic commerce and electronic transferable recercates by adopting the model can avoid uncertainty created by sage of multiparty web agreements. Besides, the multiparty web agreements are not applicable to the relationship between third parties and contracting parties. However, if there is a law which regulates such issues privity of contract cannot be raised drin turn the relationship between third parties and contracting parties will be governed by shered aw.

Generally, the first two Model Laws have not a direct application to the regulation of electronicbill of lading. They set general backgrounds deceronic commerce and signature including electronic maritime commerce. However, the UNCITRAL Model Law on Electronic Commerce addresses specific legal issues related to electronic carriagef goods and transport documents. The application of this part of the Model Law is both to nenegotiable transport documents and to transfer of rights in goods through negotiable if lading. Coming to the Model Law on Electronic Transferable Records, it is enacted to address legal issues relating to the whole electonic transferablerecords which are the functional equivalent of transferable documents or instrume? These transferable documents and instruments can be either transferable instrument for payment of money or transferable document of title.

Bill of lading and warehouse recipient are among the major types of documents of title. Thus, negotiable electronized of lading as an electronic transferable recoised the subject matter of this Model Law. Here, the Model Law on electronic transferable ecord isapplicable only tonegotiable bill of lading. Under this part the researcher will analyze how far the specific legal issues of electroinized lading are addressed under the UNCITRAL Model Law Edectronic commerce regarding

³⁶⁷ Jenny Clift, Electronic Commerce: the UNCITRAL Model Lawand Electronic Equialents to Traditional Bills of Lading, International Business LawyeVol27, 1999, p. 311317, p.311. [Herein after, Jenny Clift, Electronic Commerce: the UNCITRAModel Law and Electronic Equivalents to Traditional Bills of Lading

³⁶⁸ United Nation,UNCITRAL Model Lawon Electronic Transferable Records, United Nation Publication, New York, 2017, Article 3. [Herein afted/NCITRAL Model Lawon Electronic Transferable Records]

the non negotiable bill of lading and the Model Law on Electronic Transferable Records for negotiable ill of lading and to show lesson that Ethiopia need to take from these Model Laws. Herein after, the terterctronic transferable records used to refer to electronibill of lading

4.2 UNCITRAL Model Law on Electronic Commerce (1998)

UNCITRAL Model Law on electronic **co**merce has two parts and 1**rtiÅ**les. The first part of the Model Law is about electronic commerce in general and the second part of it is devoted to deal with specific areas of electronic commerce, in particular about electronic carriage of contracts and transport documents. **Attticlc6**, 7, 8 from the general pat and all provisions of the special part are relevant provisions. Besides, paroneof the model law which deals about the formation of a contract and evidentiary value of electronic records are also relevant. The firstpgod provisions is only limited to the straigbtll of lading; whereas, provision of the Model Law on the formation of electronic contract and recognition of electronic transferable record is applicable to both to the negotiable and straight ele**bili**tonic of lading

The first provision of ModelLaw provides the scope of application the Model Law and it states that the Model Law is applicable to all electronic information used in relation to commercial activities?⁹ The footnote provided to this article shows that commercial activities include activities relating to the carriage of goods or passengers by air, sea, rail or road therefore, since electron bid of lading is used in relation to carriage by sea, it is the subject herefore ModelLaw.

Coming to the draft electronic commerce law of Ethiopia, the scope of application of the law is subject to further amendment, change or cancellation of council of minister regulation. In this regard, it wldube better if the position taken the Model Lawis to be adopted. Even the proclamation need not delegate the power to determine the scope of application for further regulation of the council of minister.

³⁶⁹ United Nation, UNCITRAL Model Law on Electronic Commerce with Guide to Enactmitent additional Article 5bus UN publication, Sales No. E.99.14, 1998, Article 1. [Here in after, UNCITRAL Model Lawon Electronic Commerce with Guide to Enactmetith additional Article 5 bis].

³⁷⁰ Id., footnote of Article 1.

It is good to use the wording of the Model Law that is to determine the scope in terms of commeral activities.

The Ethiopia draft electronic commerce law provisions on the legal requirement of an electronic message, writing and signature are compatible with the respective provision of the Model Law. Regardinghe requirement of originality, the UNCITRAL Model Law on Electronic Commerce provides how the originality requirement of a paperill of lading is to be fulfilled. The law requires existence of reliable assurance as to the integrity of the information on electronic record from the very time of its generation up to the final form and the information is capable of being displayed to the appropriate persons and singularity what is required is the production of an original bill of lading. Therefore, though multiple copies may be produced delivery of cargo can be made for the person spice cified the original bill of lading without requiring any further qualification.

The Ethiopia draft electronic commercevialoes not regulate the originality issue. The writer of this thesis argues that the draft electronic commerce law should have to have a provision relating to how the originality requirement effectronic record can be maintained.

The next relevant provisen specific to electronibill of lading is article 16 and 17 of the Model Law. The Commission, while it was planning to pre**thase**Model Law, believed that carriage of goods is the primary area in which electronic communications were most likely to be used and the legal framework enabling the use of such communication was in demāridln this regard, Ite Model Law dedicated two provisions which are appable to maritime, road, railroad, air and the multimodal carriage of goods. Article 16 of the Model Law defines the scope of application of electronic commerce to carriage of goods. To mention few, issuing a receipt for goods, notifying a person of termasd conditions of the contract, claiming delivery of goods, authorizing the release of goods are the subject of digitalize carriage of goods³. Accordingly, this part of the model w is applicable

³⁷¹UNCITRAL Model Law on Electronic Commerce with Guide to Enactment Additional Article 5bis, Article 8.

³⁷²Id., p. 58, para. 110.

³⁷³Id., Article 16.

to electronicbill of lading as it is an instrument that ncbe used o claim delivery of goods and an evidence for contract of training and recipient of goods I though the Model Lawis prepared to govern both negotiable **anod**-negotiable bill of lading, it left the choice for the states by allowing exclusionause^{3,74}Besides, as of 2017, the commission come up with a separate Model Law which governs negotiable electronic bill of lading as an tectronic transferable record. Henceforth, the application of part two of the model on electronic commerce is only lintoited n negotiable bill of lading.

Coming to the case of Ethiopia, the draft electronic commerce law needs to follow the position of the Model Law by dedicating a special part on carriage of goods in general. Moreover, it would be better to have speqifiovisions regarding digitalization of nonnegotiable transport documents.

The Model law has also addressed another two legal issues of elebititoofilading which are common to both straight and negotiatibile of lading. The Model Law under article 9 provides that electronic records or messages cannot be denied admissibility before a court of law for the sole reason that they are electronic messages. Moreover, regarding with ectronic contract, the model law addresses legal issues related to formation and validity of contracts, attribution of electronic messages, acknowledgment of receipt, and time arcel plf dispatch and recipient. Coming to the case of Ethiopia, this regard, the Draft Electronic Commerce Law is the photocopy of The UNCITRAL Model Law on Electronic Commerce. The writer of this paper believes that legal issues related to the evidentiary value of electronic record and formation of electronic contracted to the endorseed an third party are addressed by theaft Electronic Commerce Law Efthiopia. Thus, promulgation of the draft electronic commerce and signature law is necessary.

³⁷⁴ Id., Article 17 (7).

4.3. UNCITRAL Model Law on Electronic Transferable Records (2017)

Before directly proceeding to look in to provisions of the Model Law, it is better to say something as to the historical background of this Model Law. The preceding UNCITRAL legal texts in the areas of electronic commerce failed to address the major legalissues raised relating to the use of electronic transferable records. Knowing this problem, as of 2011 UNCITRAL decided to prepare a Model Law to facilitate the use of electronic transferable records depending on their functional equivalence with transferable paper documents and instruments the preparing this model, the commission employed two guiding principles, the principle of functional equivalence and technological neutrality. The commission after the passage of six years come up with a Model Law on electronic transferable records.

The Model Law contains legal rules necessary for the use of ronic transferable records without affecting the substantive law governing the respectiaper transferable instruments and documents. In terms of stoped Model Law on electronic transferable record is only applicable to electronic transferable records that are the functional equivalent of transferable documents or instrument; it does not apply to electronic transferable records which do not have the paper counterpart^{8,77}

Having said this, let•s look in to the details of the Model Law to appreciate how legal issues of electronibill of lading are addressed. As discussed under the firstopa chapterthree³⁷⁸, the legal issues associated with use of negotiable elec**bridroic** lading include issues related to creation of functional equivalence for the requirement of signature, document, writing, originality, uniqueness and singularity, possession, identification of holder and issuer, circulation of the record, end of life cycle of the record and issues relating operation of the registry system.

³⁷⁵The Model Law on Electronic Commerce and the Rotterdam rules, though both of them tries to recognize transferable bill of lading, there are many issues which bill ddressed by it. Besides, the Electronic Communications Convention excludes transferable instruments and documents from its scope of application.

³⁷⁶United Nation, Explanatory Note to the UNCITRAModel Law on Electronic Transferable Records, United Natin Publication, New York, 2017, pa7a[Herein after, Explanatory Note to the UNCITRAL Model Lawon Electronic Transferable Records ³⁷⁷Id., para 10.

³⁷⁸ Supra pp. 5668, Chapter Three, section 3.1.

4.3.1. Functional Equivalence Rule for Writing and Signature Requirement

To begin from the requerement of signature and writing, unlike that is stated under the Model Lawon electronic commerce the issue of signature and writing is clearly included under a chapter as part of the functional equivalence with the requirement of uniqueness, singularity of possession. In this regard, article 8 and 9 of the Model on Transferable Electronic Records provides a functional equivalence rule for writing and signature requirement of papersed transferable instrument and documents.

Article 8. Writing

Where the aw requires that information should be in writing, that requirement is met with respect to an electronic transferable record if the information contained therein is accessible so as to be usable for subsequent reference.

Article 9. Signature

Where the lawequires or permits a signature of a person, that requirement is met by an electronic transferable record if a reliable method is used to identify that person and to indicate that person•s intention in respect of the information contained in the electronic transferable record?

As it is clearly stated under the above two provisions, functional equivalence rule for the requirement of writing and signature is applicable only relating with electronic transferable records. The law provides that the writing reacted of electronic transferable records is met if and only if the information contained therein is accessible for subsequent us agread dition it also stated that the requirement of signature under electronic transferable records can be satisfied and that a reliable method of identifying the person signed the record and the intention of the person relating to the information there in the record. Article 9 does not provide how the reliability of the method used to sign can be assessed. However the taw has a provision on the assessment of the general reliability standard and this provision cross refer to article 12. Thus, the reliability of the method used for identifying the person who signed can be assessed depending on the parameter stated under article 12 of the Model Law.

³⁷⁹ UNCITRAL Model Law on Electronic Transferab Record, Article8 and 9.

Coming to the possible lesson for Ethiopia, the Model Law on electronic transferable records is only applicable to electronic transferable records. In doing so the Model Law employed a different characterization of **fuonc**al equivalence for the requirement of writing and signature in electronic transferable records. In this regard, the commission advises states to have separate electronic commerce and electronic transferable record law; as it is not possible to ensingle law which addresses the unique characteristics of electronic transferable record, it is sound to adopt the characterization taken under the model law Accordingly, the writer of this research believes that Ethiopia shalter law that governs electronic transferable record and which is separate from the draft electronic commerce law.

4.3.2. Functional Equivalence Rule for Originality, Uniqueness and Singularity Requirement

As stated inthe first part of chapter three³⁸¹, originality and uniquenessive the requirement for abill of lading to perform the function of being a document of title. Assignment of the rights and liabilities embodied on buile of lading requires physical transfer of the singular and origibal of lading and such assignment in case of papebrill of lading is easy and can be done through the transfer of endorsed bill of lading. However, when it becomes digitalized, it is very difficult to avoid the possible replication of the electronic recordessis there is a mechanism to create electronic equivalence of the function of originality and niqueness requirement of the papebill of lading.

The UNCITRAL Model Law on Electronic Transferable Record avoids possible problem of existence of multiple inhas to perform the same obligation by employing thee combined sets of criteria³⁶S. The first one is the singularity criteria. The model requires using reliable method \in (t)o identify that electronic record as the electronic transferable reco³⁶d. Here, the law bothers on the singularity of the record by using an articline and a ingular noun which is

³⁸⁰ Explanatory Note to the UNCITRAModel Lawon Electronic Transferable Recoppara.74 and 78.

³⁸¹ Supra p.58, chapter Three, section 3.1., sub section 3.1.3.

³⁸² Explanatory Note to the UNCITRAL Model Law on Electronic Transfer Record para. 8384.

³⁸³ UNCITRAL Model Lawon Electronic Transferable Record, Article, (10) (i) (a).

electronic transferable record⁸⁴ €[emphasis add diddenter the second approach is the control approach. In this regard, the law provides that an electronic record shall be capable of being controlled from its very creation until it ceases to have any legal effect or validity.³⁸⁵The third criteria set by the Modelaw is about retaining the integrity of a given electronic record to that endaccording to the explanatory note of the Model Law at hand, €verification of the integrity of the electronic transferable record could be achieved if a reliable assurance isiderd of the link between an electronic signature affixed on the record and the content of that record at the time the electronic signature was affixed, he Model Law sets general reliability standard to determine the reliability of the electronic transferable record.

4.3.3. Functional Equivalence Rule for Physical Possession and Transfer of Rights by Delivery Requirement and Identification of Holder

As discussed under the thirdhapter of this paper dealing with legal issues of electronicbill of lading³⁸⁷, it is identified that transfer of rights embodied in a paper based negotiableill of lading can be achieved only with the transfer of the actual or constructive possession ovtbat document. However, in case of electrobilc of lading it carnot be transferred ither through actual possession constructive possession.

The UNCITRAL Model Law on Electronic Transferable Records come up with a functional equivalence rule for requirement of physical possession and transfer of rights by delivery. Under article 11, the Model Law provides that:

(1) Where the law requires or permits the possession of a transferable document or instrument, that requirement is met with respectint electronic transferable record if a reliable method is used:

(a) To establish exclusive control of that electronic transferable record by a person; and

(b) To identify that person as the person in control.

³⁸⁴ UNCITRAL Model Law on Electronic Transferable Record, Article, 10 (1) (i) (a).

³⁸⁵ Id., Article 10)1) (i)(b).

³⁸⁶ Id., Article 12.

³⁸⁷ Supra p. 59, Chater Three, section 3.1, sub section 3.1.4.

2. Where the law requires or permits transferpossession of a transferable document or instrument, that requirement is met with respect to an electronic transferable record through the transfer of control over the electronic transferable record.³⁸⁸

As per the first sub provision, the requirementpolissession of a transferable document or instrument can be achieved if and only is a reliable method is used to establish the existence of exclusive control of a given electronic transferable record by a person and to identify that person as person in contemband that €the method or system employed to establish control as a whole should achieve the identification purpose with respect to all the parties involved in the **arctios**n, ³⁸⁹ By doing so, the person in control of the electronic transferable record can have the same legal status as possessor of an equivalent transferable document or inst⁸⁰ment.

There are electronic transferable management systems which are based on distributed ledgers; blockchain technology. Such types of system identify the person in control by referring to pseudonyms rather than to real names of the underlying transaction. In such case, the system needs to show the link between the pseudonym and reaname³⁹¹The holder of the private key corresponding to the address at which an electronic bill of lading is kept will be deemed to have possession ³⁹⁷ it.

According to Koji Takahashi, **b**lock chain record book displays the addresses at which tokens are **b**intained³⁹³ The holders are pseudonymou**shas** addresses are cryptographic identities of the holders of the tokens in which they cannot be displayed by their real nam³⁸⁴. This can be done by having private and public keys. Private keys matching to the a**dds**es are secret and this private key creates the corresponding public key and the public key creates an address. By doing so, the block chain technology linked pseudonym with the real n³⁹⁵

The second sub provision of article 11 of the Model Law provides that transfer of control over an electronic transferable record is the functional equivalent of delivery

³⁹⁴lbid.

³⁸⁸UNCITRAL Model Law on Electronic Transferable Recs,r&rticle 11.

³⁸⁹ Explanatory Note to the UNCITRAModel Lawon Electronic Transferable Record, para., 116. ³⁹⁰Id., para 113.

³⁹¹Id., para.117.

³⁹²lbid.

³⁹³Koji Takahashi,Block chain Technology and Electronic Bills of Ladipg208.

³⁹⁵Ibid.

of the negotiable ill of lading. The requirement of surrender under the papeof ladingcan be performed by mere transfer of control over the electroin bit lading.

4.3.4. Rules on Amendment of Electronid Bill of Lading

As stated before, errors may occur on a **gbielo** flading while it is issued or later on. For instance, the formation provided by the shipper may be different from what is actually recorded on the l. In such cases amendment is inevitable. In case of a paper bill of lading, the amendment can be done without any complication since the amendment can be strat gorwardly identifiable in a paper based environment due to the nature of the media use 2^{16} But, the case of amendment of the electronic of lading is not likewise. The UNCITRAL Model Law on electronic transferable record come up with a provision which addresses how electronic transferable record can be amended. The Model Law stated that, ... \in [the requirement of amendment] is met with respect to an electronic transferable record if a reliable method is used for amendment of information in the electronic transferable record so that the amended information is entified as such.³⁹⁷ \in [emphasis add $\frac{1}{2}$ d] Here, the Model law requires both recordings of the amended information being identifiable of such action.

4.3.5. Rules on Replacement or Conversion of Electroni Bill of Lading to Paper Bill of Lading and vice versa

Existing laws governing paperill of lading may not even forecast the possibility of conversion to electronic of lading and vice versa. Replacement of paperil of lading to electronic of lading and vice versa may be there for formercial and other reasons. The commission address there exists usually article 17 and 18 of the Model Law on Electronic Transferable Records. Article 17 addresses transferable document or instrument can be replaced with an electronic transferable record. Article 17 of the Model Law provides that;

1. An electronic transferable record may replace a transferable document or instrument if a reliable method for the change of medium is used.

2. For the change of medium to take effect, a statement indicating a change of medium shall be inserted in the electromansferable record.

³⁹⁶ Explanatory Note to the UNCITRAL Model Law on Electronic Transferable Records, para.157. ³⁹⁷UNCITRAL Model Law on Electronic Transferable Record relation for the second second

3. Upon issuance of the electronic transferable record in accordance with paragraphs 1 and 2, the transferable document or instrument shall be made inoperative and ceases to have any effect or validity.

4. A change of medium in acceleration with paragraphs 1 and 2 shall not affect the rights and obligations of the parties?

Double fold requirements are provided. The first one is, a reliable method should be used for the change **th**femedium. The reading of article 12 tell us that the reliability of the method is to be assessed depending on the general reliability standard specified there. Second, the law requires insertion of a statement in the electronic transferable record that in**dites** the fact of change of medium. The model law also addressethe status of the transferable document which is converted to the electronic transferable record. According to sub article 3, as soon as replacement is made the paper document shall be made ofunction and ceases to have legal effecting to the case of replacement of electronic negoti**bili**e flading by paperbill of lading the Model law also provides the same requirement like what is provided under article 17⁹⁹ Thus, no need to gortbugh the detail.

4.5.6. Rules on Reliability of the Operator System

As a matter of fact, unless there is a means to measure the reliability of the operating system (be it third party registry system, token system or distributed ledger), digitalization of documentation process cannot be effective. The UNCITRAL Model Law on Electronic Transferable record set down the following general reliability standard which are applicable to all electronic transferable records management system providers. Interaliat, includes a given operation record system reliability of the system⁴⁰⁰ assurance of data integrify, the ability to prevent access to and use of the system by unauthorized pastiesecureness of hardware and softwattee existence of regular accurate audits carried out by an independent⁴⁰ bbedy,

- ⁴⁰¹Id., Article 12(a)(ii).
- ⁴⁰²Id., Article 12(a) (iii and i).

³⁹⁸ UNCITRAL Model Law on Electronic Transferable Recondicle 17.

³⁹⁹ Id., Article18.

⁴⁰⁰ Id., Article 12(a)(i).

⁴⁰³Id., Article 12(a)().

existence of declaration by a supervisory body or an accreditation body regarding the reliability of the method and to have an applicable dustry standard?⁴

Coming to the lesson that Ethiopia draw from the Model Law on Electronic transferable records, as issues related to the functional equivalence of uniqueness, originality, possession, transfer of rights by delivery is not yet addresser the Ethiopia draft electronic commerce law, the government shall take the model law as a bench mark to legislate a separate law on electronic transfeeables The same is true to issues related to amendment, conversion of electridinite lading and reliability of the operatorsystem.

⁴⁰⁴UNCITRAL Model Law on Electronic Transferable Reconducticle 12(a) (vi and vi).

CHAPTER FIVE: CONCLUSION AND RECOMMENDATION

5.1. Conclusion

Thestudy raised two interconnected research questions:

ðv Should Ethiopia introduce electronic bill of lading? ðv How should the countrigegulate the electronic bill of lading? The answer to the first question is yes. The following factors are identified by the researcher as justification for the introduction of electronic bill of lading in Ethiopia. The first justification is late arrivation of lading which results in unnecessary cost due to the delay of cargo clearance. The study revealed that in Ethiopia, late arrival of bill of lading can be attributed to the following factors. The first factor is the fact that the foreign traded w of Ethiopia is mainly towards the Middle East and south east Asia countries in which the cargo transit time is too short. Besides, even the nature of cargoes imported to Ethiopia is mainly bulk cargoes which cannot be done through multimodal system. Tehsecond factor is the nature of Ethiopiaes foreign trade payment system. The study proved that the Ethiopian foreign exchange law puts a restriction on the amount of transaction to be processed on the mode of payment which does not require bill of laditing processing payment. Payment for all imports which worth more than USD 5,000, which amounts 98% of the whole import, is required to be processed and paid either through documentary credit or cash against document.

The second justification is vulnerailogil of paper bill of lading to loss and error, which in effect result in high cost to rectify the problem that is either for amendment or reissuance of the paper bill of lading. The thesis revealed that like what is happening around the world, loss orodespancy on the particulars offloof Lading is a usual challenge encountered by the business communities who are engaged in international trade.

The third justification is related to Ethiopiatise vulnerability for documentary fraud. The paper revealed bat bill of lading is a document und the target of fraudsters due to its special nature of being a document of title. In this regard, developing countries are the most vulnerable one due to the fact that parties involved

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in the process of the internation business transaction lack the required skill and knowledge to detect the forged one from the genuin the empirical analysis showed that Ethiopia as a developing counting vulnerable for fraudulent acts committed on paper bill of lading. The Ethiopia Bahipping and Logistics Service Enterprise bill of lading have been forged many times.

Regarding the possible challenges of introduction of electronic bill of lading in Ethiopia, the study finds out that the problem related to the national IT infraseructu specially related to weak network connectivity and the existence of extended periods of power cuts are the possible challenge that would affect digitalized to document. Regarding witthe banks and government technological readiness, the empirical analysis revealed that both of them are working to have digitalized transaction; thus, there would not be problem in this regard.

Concerning the seconduestion first the paper identified and expounded the possible egal issues associated withigitalization of paper bill of ladingThe creation of functional equivalence for the requirement of signature, document, writing, originality, uniqueness and singularity, possession, identification of holder and issuer of electronic bill of lading, circulation the electronic bill of lading, evidentiary value of electronic bill of lading, formation of contract as between the carrier and endorsee, end of life cycle of electronic bill of lading and attribution of the reliability of the operating system are thejom issues of electronic bill of lading that need to be addressed by law.

Afterward, he paper examined the mpatibility of the existing legal environment of Ethiopia in accommodating electronic bill of lading or not? The waited yzed the policy and laws of the country which is elevant for governance of bill of lading. In terms of policy, although both the draft national logistics strategy and transport policy are at the draft stage, the study showed that the government of Ethiopia is working towards digitalizing transport documents used in the international trade. Coming to the regulatory framework, the analysisheftharitime code revealed that there is no cleast tement under the law which requires issuan bill of lading in document or writing form However, for the writer of this papers far as electronic medium of communication was not known while the maritime code of Ethiopia was enacted and here is a requirement of twoset of originals under the same

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law leads to conclude that it is not possible to issue electronic bill of lading Regarding the signature requirement, the maritime code is still silent as to how it can be signedThe writer of this research does not believe that it was the intention of the then legislature to ecognize electronic signature at the time in which the concept of digitalization was not known at all.

Coming to the Multimodal Goods Proclamation of Ethiopia, the study revealed that electronic bill of lading is recognized although there is ifference between the negotiable and nonegotiable multimodal transport document. The study finds out that the law is not sufficient to address legal issues of electronic bill of lading. It fails to address how the originality, singularity and uniqueness of electronic bill of lading are to be guaranteed, how the requirement of physical possession and transfer of rights by delivery is to be performed, how electronic multimodal bill of lading can be amended and corrected and other legal issues which can be raised with digitalization of bill of lading.

Related with the legal issue associated with the status of electron tracts as between the endorsee and the carrier under the Ethiopiat last out thatan electronic contract between the carrier and thinarty endorsee through bill of lading is not recognized although there is no prohibition to have electrontiacts under the Ethiopia General Contract Lathe law fails to address issues relating to the characterization of consent and functional equivalence of signature and written requirement stated under the law as talidity requirement. Concerning the compatibility of Ethiopia security and customiaws in light of introduction of electronic bill of lading, it is found that the basic security laws of Ethiopia which are scatteredri different laws of the country doest give recognition for pledging of electronic records as security. As a result, under the existing Ethiopian security law, electronic bill of lading cannot be pledged before having a special provision which allows doing so. It is also indicated that the customs law of Ethiopia allows to use electronic records for customs formalities. However, the existence of a requirement to produce original documents in order to check the accuracy of electronically transmitted messages hinder the application of negotiable electronic bill of lading.

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Regardingthe admissibility of electronic bill of lading as an evidence before Ethiopian court of law, it is noted that nothing is there to prohibit admission of an electronic bill of lading as an evidence under the current Ethiopian evidence law. Moreover, the applysis of the draft electronic commerce law of Ethiopia indicated that electronic carriage of goods and transport documents are not included. To sum up, the existing legal environment does not properly address legal issues associated with introduction ofelectronic bill of lading although there is a tendency towards recognizing electronic bill of lading as electronic records.

Finally, the researcher has a mined the UNCITRAL Model Laws on Electronic Commerce and Electronic Transferable Records to assess how legal issues associated with electronic bill of lading are addressed and with a view to drawing lesson to Ethiopialt is indicated that the government take the above model laws as benothark to legislate a separate law on electronic transferable bill of lading and to reconsider the draft electronic commerce law in light of including carriage contracts and transport documents as its subject matter.

5.2. Recommendation

The study has revealed that there is neeithfoorduction of electroic bill of lading in Ethiopia.Conjointly, it is also shown that the Ethiopian legal environment is not adequately compatible for issuance of electronic bill difnlg. On the bases of these findings, the researcher would to recommend the following.

- ðv Ethiopia should enact law on Electronic Transferable Records for addressing legal issues associated with negotiable electronic bill of lading. The law shall include rules on functional equivalence of signature, writing, uniqueness, originality, possession, transfer of rights by delivery, amendment, conversion of electronic bill of lading to paper bill of lading and vice versa, and reliability of the operator system.
- ðv Ethiopia should promulgate the draft electronic commerce law by including additional provisions related to carriage of goods, transport documents, functional equivalent provision for originality requirement of paper document and provision which allows seritization of electronic records.
- ðv Article 81 of the customs proclamation No. 859/2014, which require submission of original documents to check the accuracy of electronically transmitted

information, should be amended to limit its application on eleictroill of lading. The originality of electronic bill of lading cannot be verified by submission of originapaper document.

ðv Ethiopia shall enhance information technology and power supply infrastructure to avoid problems associated with weak network cotivity and extended periodsof power cut.

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