

Distr.
GENERAL

E/ESCWA/TRANS/2001/6
28 September 2001
ARABIC
ORIGINAL: ENGLISH

--

03-0358

.....
.....

-

.....

.....

-

-

-

.....

-

.....

-

.....

.....

-

.....

-

.....

-

.....

-

.....

-

.....

-

.....

-

-

.....

.....

.....

-

.....

-

()

..... -
..... -
..... -
..... -
..... -
..... -
..... -
..... -
..... -
..... -
..... -
..... -
..... -
..... -

..... -
..... -
..... -
..... -
..... -
..... -
..... -
..... -

..... -
..... -
..... -
..... -

..... -
..... -
..... -
..... -
..... -
..... -

.....

()

..... -

..... -

..... -

..... -

..... - -

..... - -

..... - -

..... " " -

..... -

..... :

..... -

..... -

..... :

..... -

..... -

..... -

..... -

..... -

()

()

()

()

()

()

UNCTAD, *World Investment Report 1999: Foreign Direct investment and the Challenge of Development* (New York () and Geneva, United Nations, 1999).

Containerisation International Yearbook 2001 (London, Leigh Smith, 2001) ()

--

)

()

(

.(

)

- -

-

-

(Web) (ICT) (Internet) (IT) (e-business) (e-trade)
 (EDI) (ebXML) (WAP)
 (IT)
 (ICT)

" " " "

" "

()

:

(HTTP) "
 (URL) "
 (HTML) "

(HTML)

()

) "G2C" () "B2C" () "B2B"

.(

)

" "

()

(

" "

/

/

" "

.(WAP)

.()"

"

(EDI)

(UN/EDIFACT)

.(HTML)

.(XML) "

"

"XML"

"XML"

()

.(ebxML)

()

-

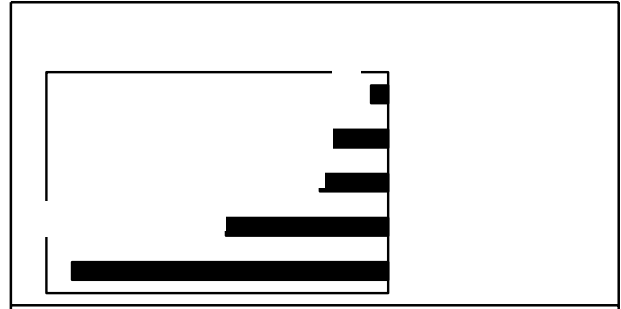
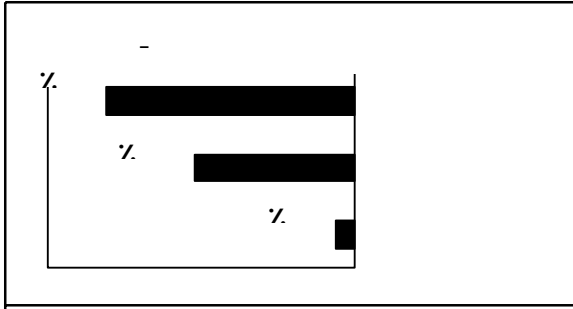
()

()
()

<http://www.unece.org/cefact/index1.htm> ()

http://www.webopedia.com/Top_category.html ()

See International Telecommunication Union, *Challenges to the Network: Internet for Development, Executive Summary*, October 1999. ()



.ITU World Telecommunication Indicator Database, Network Wizards, Compaq, RIPE : _____

" () "

ACNielsen

()

(Intel)

Intel Pentium III

Intel 4004

.ITU Telecommunication Indicators Update, January-February-March 2001. (<http://www.itu.int/ti/> ()

<http://www.eratings.com/> ()

--

()

" "

IBM

()

(ERP)

:

.(CRM)

Scientific American, October 1997, <http://www.sciam.com/specialissues/1097solidstate/1097hutch.html#link2> and ()

www.apple.com

http://www.itu.int/ti/industryoverview/at_glance/Internet00.pdf ()

--

"

"

"

"

"

"

"

"

()

()

<http://www.itp-journals.com/nasample/t04124.pdf> ()

<http://www.unece.org/cefact/> ()

(B2B) "

"

(B2C) "

"

(G2C) "

"

"

" "

"

()

()

<http://www.forrester.com/ER/Press/Release/0,1769,281,00.html> ()

<http://www.forrester.com/ER/Press/ForrFind/0,1768,0,00.html> ()

(Wal Mart) "

()

()

()

()

.Don Tapscott, *The Digital Economy: Promise and Peril in the Age of Networked Intelligence* (McGraw-Hill, 1997) ()

Transport Canada, "Transportation and Information Technology," 1998 ()

<http://www.tc.gc.ca/pol/en/ANRE1998/TC98C11E.HTM>(

- -

-

/

;()

()

()

/ " "

()

."The net imperative", *The Economist*, 26 June 1999 ()

" " ()

Dell Computer

iLinkGlobal.com, 3plex.com and Freightdesk.com.

()
× ×

(●)

()

()

() () () () () ()
() () () () () ()
() () () () () ()

()

()

)

(

"

(B2C) "

() () () () () ()

- -

(B2B) "

"

"

"

-

()

()	
<p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p>	

.Goldman Sachs Annual Report, 2000 : _____

()

() :

()

"

" (B2B) "

"

.(B2C)

.eBay.com

"

(C2C) "

"

eBay

.(C2B)"

.(NASDAQ)

eBay

" "

eBay

eBay

eBay

eBay

eBay

eBay

eBay

"

eBay

()"

"

() Amazon.com

(B2C) "

"

(B2C) "

"

()

" (B2B) "

"

.(B2C)

" "

.(B2G)

.()

.() ()

."Is there life in e-commerce?", *The Economist*, 3 February 2001 ()

()

European Commission, *Analysis of Electronic Public Procurement Pilot Projects*, European Commission, DG ()
Internal Market, 2000.

(Medienpol.com, Avacom.com)

(Marche Online, Doubletrade Saomap)

(Delta Suite, Tender Trust, ELPRO)

(Er@t) (Ethics)

" " (G2C) " " (G2B) "

(C2G) " (B2G) "

www.ccra-adrc.gc.ca/eservices/ (C2C)	www.eBay.com (C2C)	www.Yahoo.com (C2C)	
www.ccra-adrc.gc.ca/eservices/ (B2G)	^() www.covisint.com (B2C)	www.amazon.com (B2C)	
^() www.ciat.org (G2C)	www.doubletrade.com (G2C)	www.toldscat.dk (G2C)	

) covisint.com () : _____
()
CIAT ()

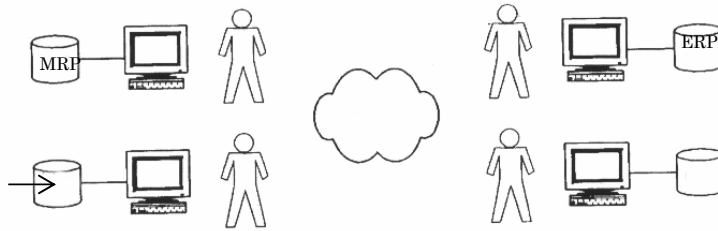
" " (B2C) " " (B2B) "

" (B2C) " " (B2B) ")
(B2G) "

()

()

(ERP)



= ERP

= MRP : _____

"
()

(")

()

(XML)

) (XML)
) (HTML) " " (" " (XML

" ") (XML) ((

XML

() .(B2B) " () :

()

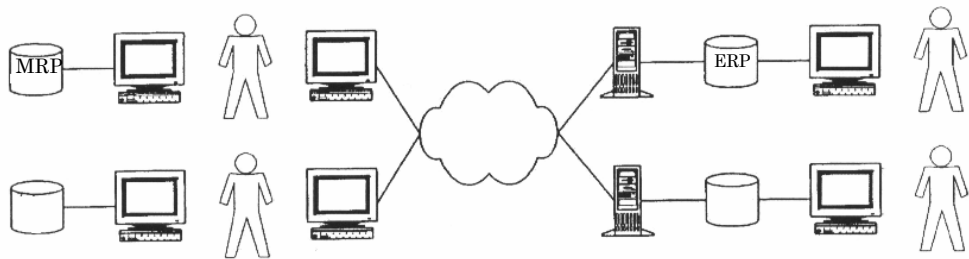
()

(ERP)

(B2C) "

(B2B) "

(ERP)



= ERP

= MRP : _____

(World Wide Retail Exchange) ()
(Forest Express) (Envera) (Elmica) (Metal Spectrum)

eSteel Plasticnet)

()

Covisint.com

(

paperExchange

:

) GoCargo.com

.(Cargo Exchange.com)

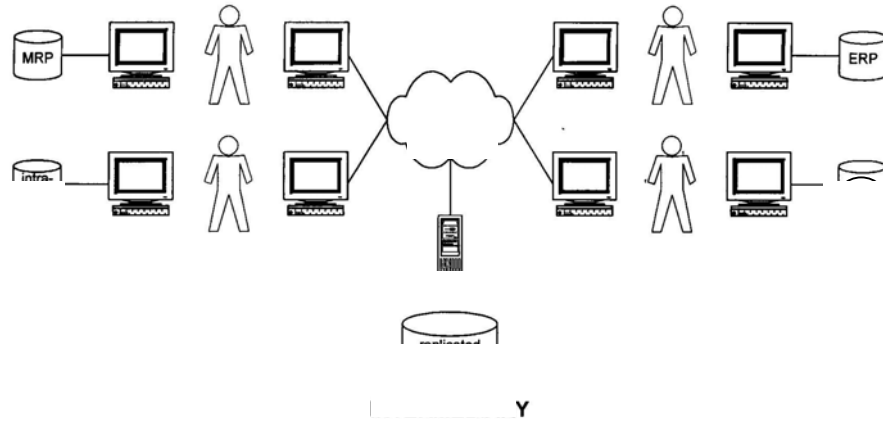
()

:

()

()

()



= ERP

= MRP : _____

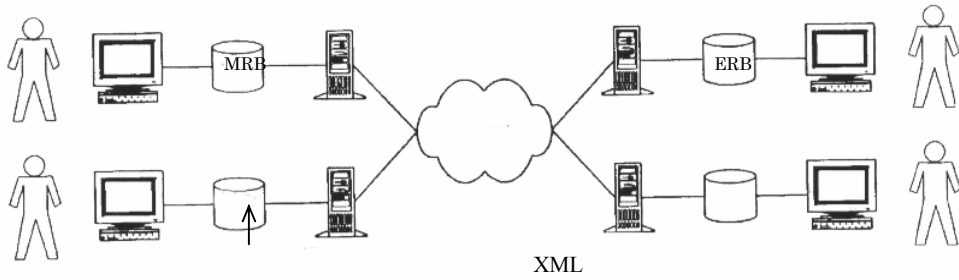
" " _____

(B2B) "

") (B2B) " (

()

(B2B) " "



= XML

= ERP

= MRP : _____

XML

()

XML

XML

XML

XML

XML

"

(B2B) "

XML

XML

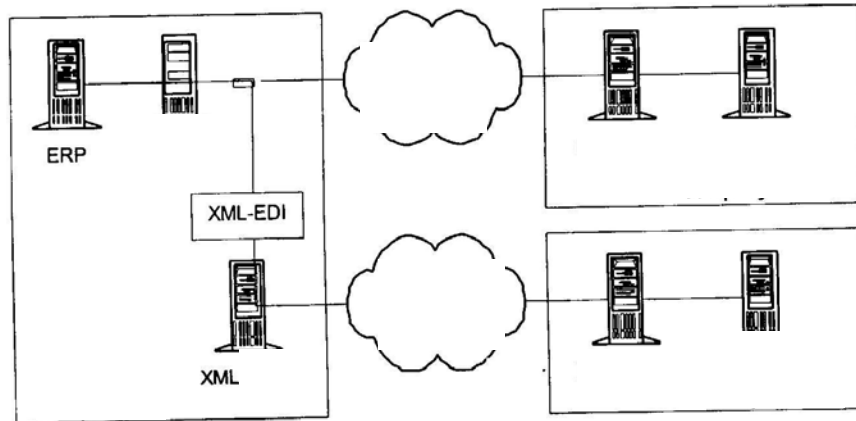
()

XML

XML

XML

-f



= XMI

= ERP

= MRP : _____
= EDI

() Fed EX

.Fed EX

Fed EX
(Transplace)

(Arzoon Steel Roads)

() Maersk Sealand

.FedEx US. <http://www.fedex.com/us/ebusiness/eshipping/ship.html> ()

.Containerisation International, November 2000 ()

- -

-

()

.(:) /

"

"

)

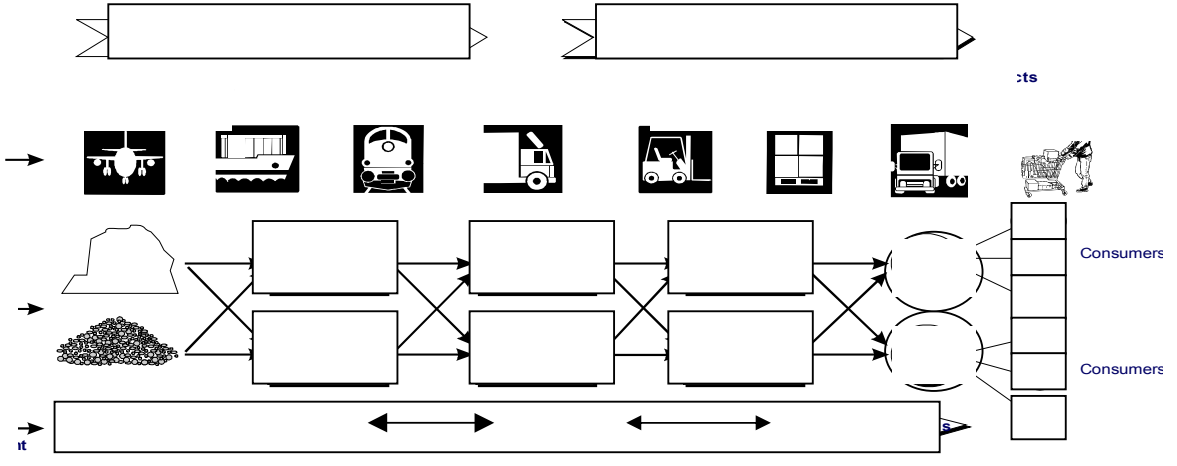
)

(

)

(

(



()

/

ECP NL (Electronic Commerce Platform Nederland) ()

/

" "

Covisint.com
Covisint. com

Ernst G.Frankel (Massachusetts Institute of Technology),"Profitability through connectivity: the e-port terminal () operations in the Internet age; information and transaction management as a key to profitability for shipping and ports,"submitted at the TOC 2001 meeting with the theme "Managing Growth with Intelligence: the Quest for Profitability Capacity," 2001.

<http://www.ecp.nl/ENGLISH/home.html> ()

- -

.

.

.

.

.

.

.

.

.

.

-

:

.

-

.

.

.

.

. () ()

()

www.fc.gc.ca

.

:

()

;()

() () ()

() () ()

) () ()

() () ()

:

See *Study on ITS Applications within the Canadian Trucking Industry*, prepared for Transport Canada Surface Transportation Policy by Sabounghi & Associates and Delcan Corporation, November 1999. ()

Transport Canada, *Transportation in Canada - 1998 Annual Report* ()
 (<http://www.tc.gc.ca/pol/en/ANRE1998/TC98C11E.HTM>) (hereinafter referred to as "Transportation in Canada. -1998 Report").

(GPS)

()

() / /

() ()

(transponder) ()

)

():

()

()

()

"

"

Dean Wise and James Brennan, "E-commerce-taking stock," *Containerisation International*, November 2000 ()

(transmitter) ()

(responder) (transponder)

Karl Jeffry, "Recent development in information technology for container terminals: a Cargo" Systems report, ()
London, January 1999.

()

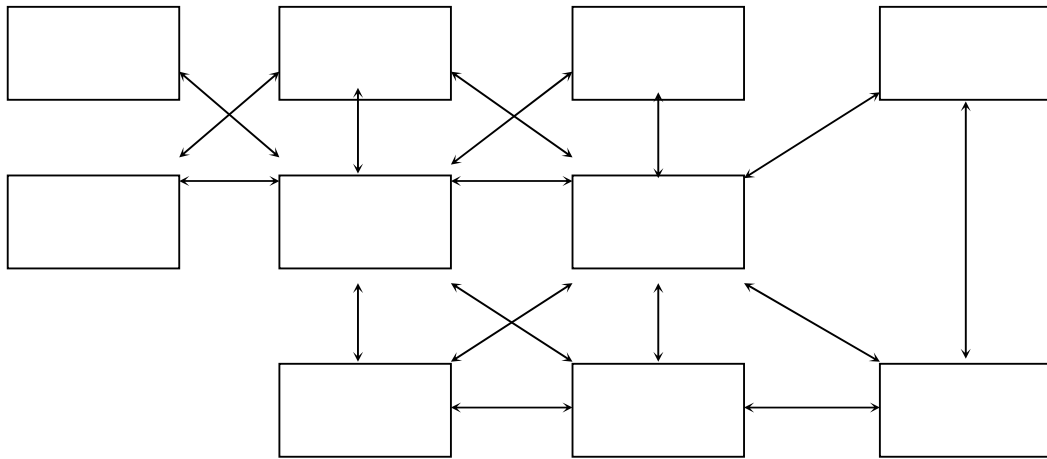
(ASYCUDA)

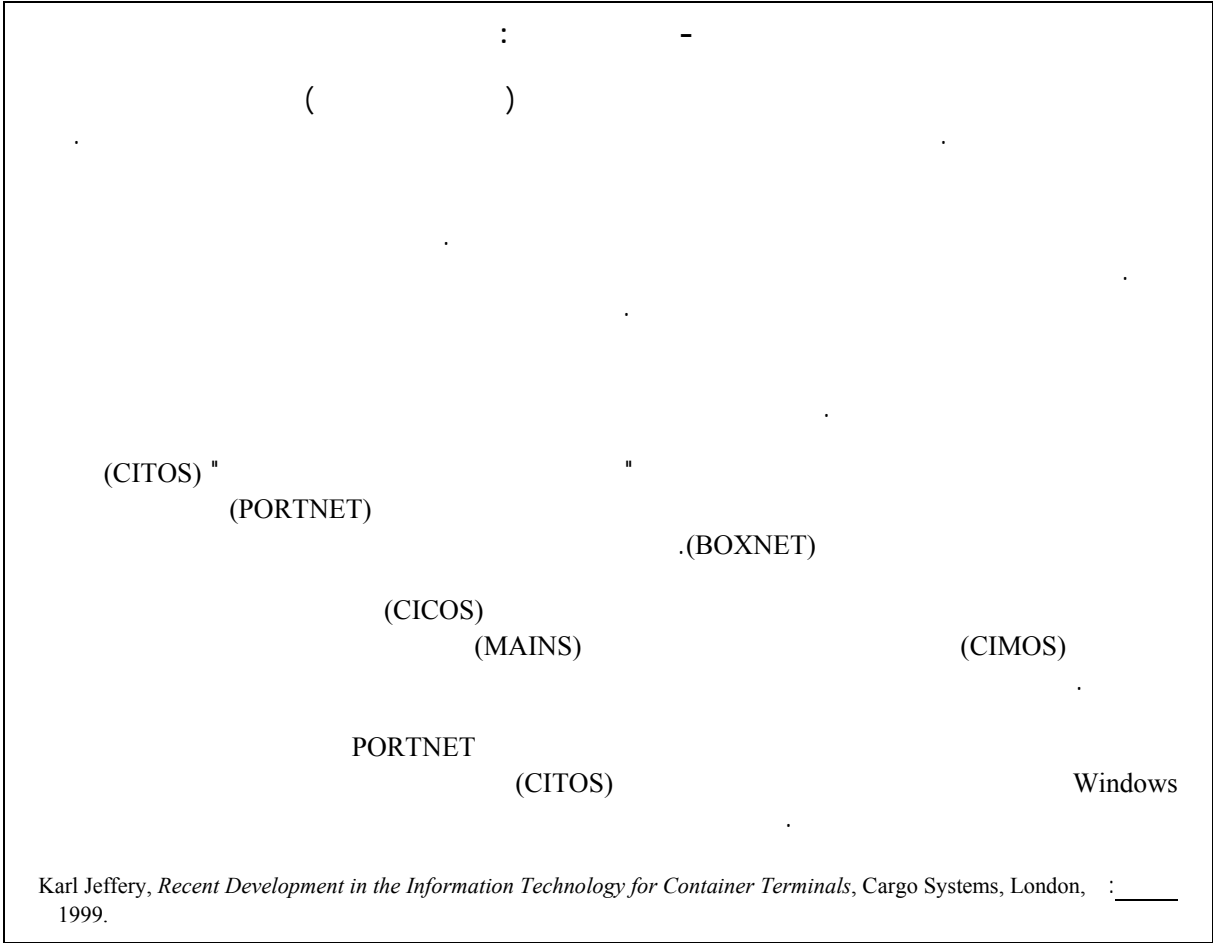
(ACIS)

()

(UN/CEFACT)

-i





)

(

Lastminute.com Cheap Tickets Inc

(

)

(

/

)

Union Pacific Railway

()

:

()

()

- -

()
()
(●)
()
()

:

()
()
()
()
(●)
()

()

/

_____ -

“ ”

-

()

()

()

Diebold Institute for Public Policy Studies, *Transportation Infrastructures, the Development of Intelligent Transportation Systems* : _____
(Westpoint (Connecticut), Praeger, 1995).

" "

()

"Implications for developing countries and possible strategies _____ ()
to be adopted," in UNCTAD, *Building Confidence: Electronic Commerce and Development* (New York and Geneva, 2000)
(hereinafter referred to as "Building Confidence").

()
 ()
 ()
 ()
 ()

()

" "

" "

			/	/	/	
	✓	✓	✓	✓	✓	MAERSK
	✓	✓	✓	✓	✓	Evergreen
				✓	✓	P&O Nedlloyd
					✓	MSC
✓	✓	✓	✓	✓	✓	APL
			✓	✓	✓	COSMO
				✓	✓	Zim
✓	✓			✓	✓	NYK
			✓			CMA-CGM
	✓	✓		✓	✓	HMM
	✓		✓	✓	✓	Yang Ming
	✓	✓	✓	✓	✓	OOCL
		✓		✓	✓	Hapag-Lloyd
		✓	✓	✓	✓	K-Line
	✓	✓	✓	✓	✓	MOL
	✓	✓		✓	✓	Hanjin

.Containerisation International, November 2000 : _____

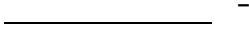
" "

()

containerisation International

() " "

" "



()

- ()
- ()
- ()
- ()
- (●)
- ()
- ()

UNCTAD, "Electronic commerce and international transport services: report by the UNCTAD secretariat" ()
 (TD/B/COM.3EM.12/2), 31 July 2001.

.Dean Wise and James Brennan, "E-commerce-taking stock," *Containerisation International*, November 2000 ()

Freight@Internet report on the impact of Internet technologies in the freight transport market, 1999, *Scientific* ()
<http://www.sanewletters.com/FEC/FIRtoc.html>American Newsletters (

(B2B) "

() P&O Nedlloyd

()
()
()

(United Parcel Service (UPS))

UPS

UPS

UPS

XML

XML

UPS

)

XML

UPS

UPS

(

XML

(

XML

UPS

/

UPS

:

() :

"

-

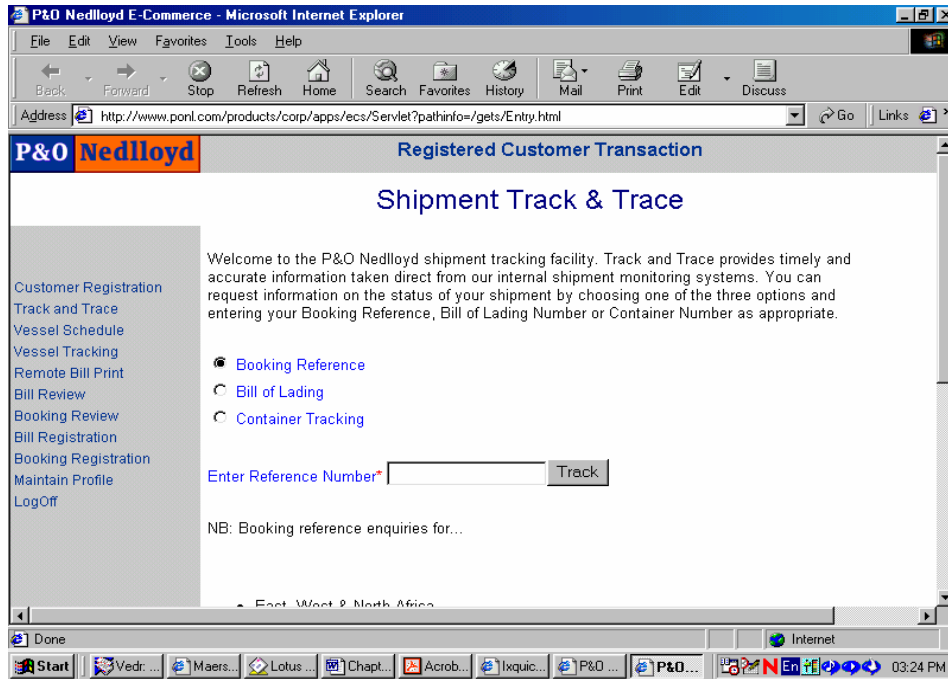
(

)

UPS

()"

<http://www.pressroom.ups.com/pressreleases> Tim Geiken, Vice President of E-Commerce, UPS (: _____



:

:

- ()
- ()
- ()
- ()
- (●)
- ()

:

- ()
- ()
- ()
- ()
- (●)
- ()

()

" "

() Maersk Sealand

()

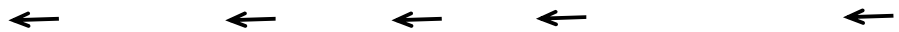
()

()

(" ")

UNCTAD, *Building Confidence* ()

<http://www.maersksealand.com/MaerskSealand/> ()



Tradiant.com :

() From2.com
() emodal.com () e-transport.com
" "

.ILinkGlobal.com Freightdesk.com

- Ç

()

Maersk Sealand shipping containers Worldwide - Microsoft Internet Explorer

Address: http://www.maersksealand.com/

MAERSK SEALAND CONTACT SITEMAP Search

HOME ABOUT US BUSINESS EQUIPMENT LOCAL OFFICES NEW USER DISCLAIMER
Introduction Schedules Rates Booking Tracking Bill of lading Account statement Your statistics

From
Load Country/Territory: Lebanon
Load Port: Beirut

To
Discharge Country/Territory: Tanzania
Discharge Port: Dar Es Salaam

Container type/size
20' Dry

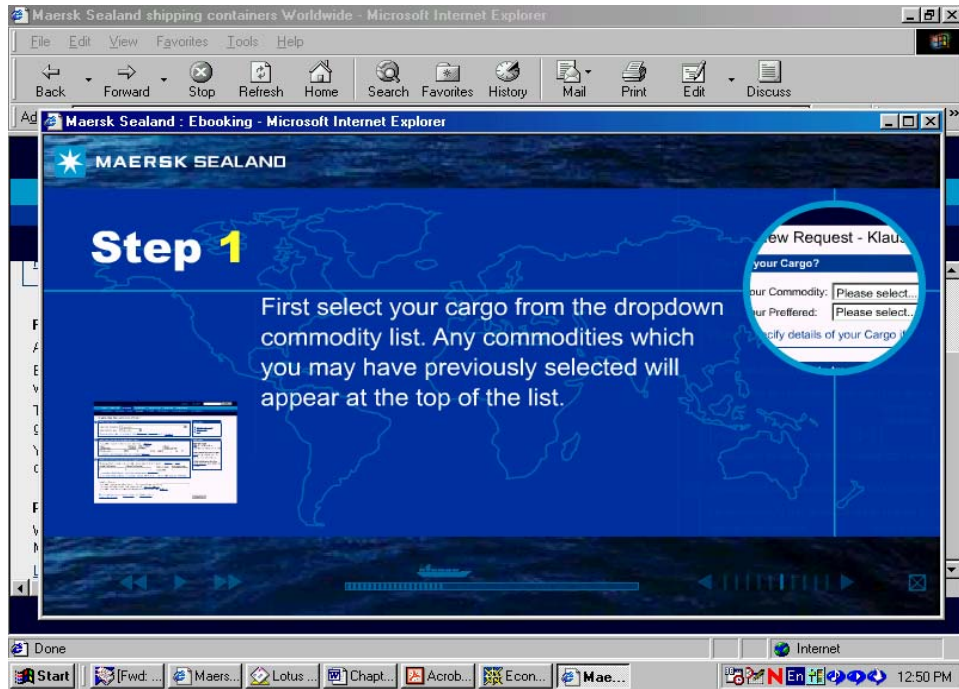
Tariff Rates from Beirut, Lebanon to Dar Es Salaam, Tanzania
Base Rate valid thru 30th June 2001. Click for details

Rates	Currency	20' Dry	40' Dry	40' HighCube
Base Rate	USD	1400	2700	2850
CAF	USD	NA	NA	NA
BAF %	USD	7.53	7.53	7.53
Origin THC	USD	160	280	280
Destination THC	USD	NA	NA	NA

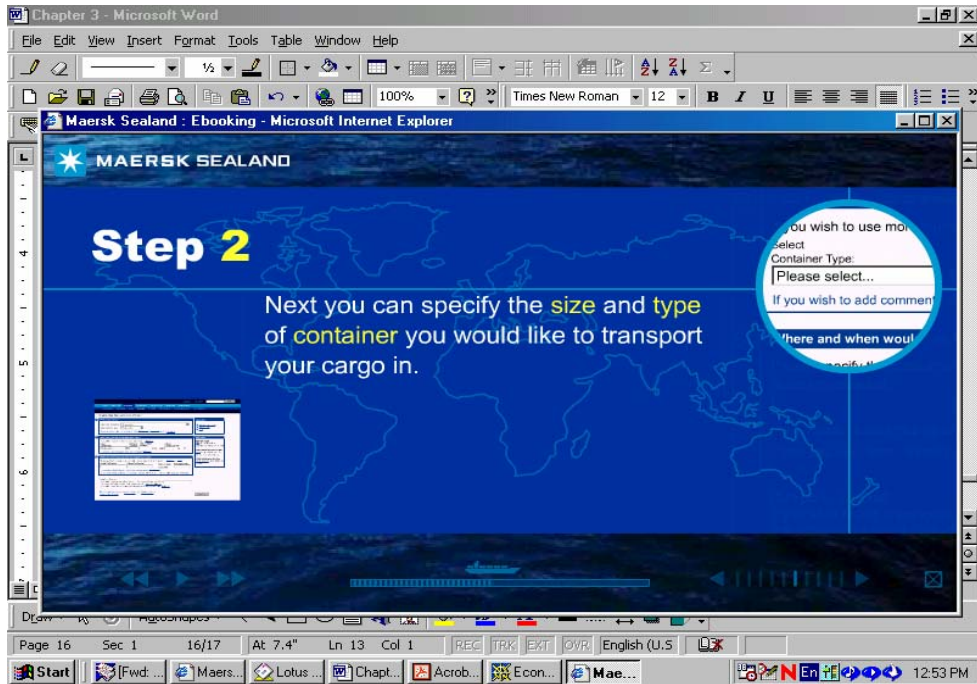
Comments
Origin Notes: TARIFF IS VALID FOR FOLLOWING COMMODITIES ONLY - Fertilisers, Foodstuffs, Beverages, PVC, Construction materials, Animal foods, Groupage, Machinery, Metals, Stationary, Cigarettes. Via Gioio Tauro transhipment

Start | Fwd: Ho... | Maersk... | Lotus cc... | Chapter 3... | Acrobat... | Economic... | 12:40 PM

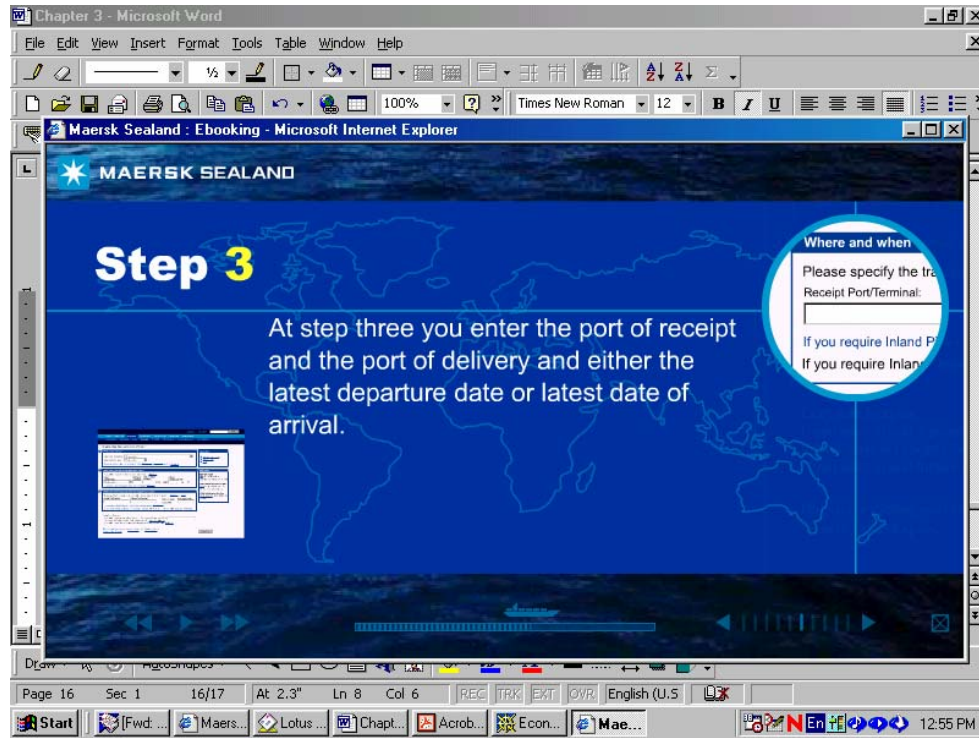
()



()



()



()

)

(

"
(Ocean Wide Inc.)

" "

() (Celarix)

(Microsoft)

" "

(Bolero)

()

(Bolero Rule Book)

- Capstan.com
- CargoExchange.com
- CargoNet.com
- CargoNow.com
- Celarix.com
- eModal.com
- eTransport.com

- Frieghtdesk.com
- Freightgate.com
- From2.com
- GoCargo.com
- IATN.com
- ILinkglobal.com
- Neomodal.com

Neomodal.com Celarix.com

()

()

(B2B)

.*Containerisation International*, November 2000 ()

Richard Wise and David Morrison, "Beyond the exchange: the future of B2B," *Harvard Business Review*, ()
 November-December 2000, vol. 78, No. 6.

.

.

.

.

.

”

”

(B2B)

.

.

.

.

.

.

.

.

.

Covisint.com

”

”

.

.

.

()

.

.

()

(The National Transport Exchange)

(Teleroute.com)

(NTE)

(B2B)

NTE

(

/

)

/

NTE

mySAP.com, Manugistics
NTE

mySAP.com Manugistics NET

NTE

Teleroute.com

Teleroute

Teleroute
Teleroute

www.nte.net ()

:

()

"

"

(B2B)

:

()

: ()

: ()

: (•)

"

"

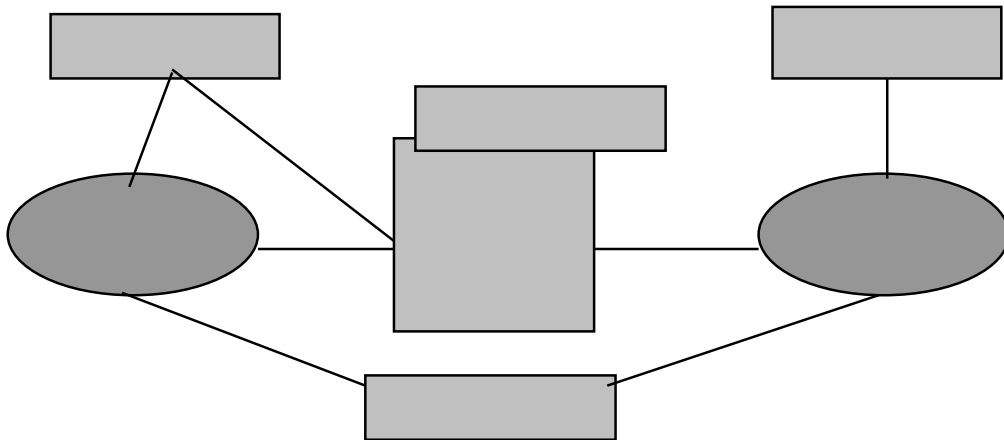
-1

() i

	/				
/				/	

Richard Wise and David Morrison, "Beyond the exchange: the future of B2B," *Harvard Business Review*, November-December 2000, vol. 78, No. 6.

(B2B)



- -

-

-

" "

-

-

-

- -

" "

()

-

-

-

:

()

(B2B) "

"

()

()

()

(●)

(

)

: -f

()	()	()	()	()	()	()	()
	,					,	
	,					,	
	,					,	
	,	-				,	
	,				-	,	
	,					,	
	,					,	
	,					,	
	,					,	
	,					,	
	,					,	
	,					,	

ITU Internet and cellular indicators 2001 () ;ESCWA web site 1999 (<http://www.escwa.org.lb/countries/>) () :
Ajeeb Research (<http://eit.ajeel.com/ViewArticle.asp?ArticleID=28132>); () ;(<http://www.itu.int/ti/industryoverview/index.htm>)
<http://www.isc.org>Internet Software Consortium ()

- -

()

: -î

()			
()			
()			
()		()	
()			
()			

()

) WAP

()
(

()

" " (ERP)

" "

" " "B2B"

" "

() Fedex () DHL () UPS

:
()

<http://www.nttdocomo.com/i/index.html> (July 2001) ()

Middle East Economic Digest (MEED), 2 February 2001 ()

http://www.ups.com/regions/gr_mideast_countries.html ()

http://www.dhl.com/main_index.html ()

<http://www.fedex.com/> ()

<http://www.maersksealand.com/> ()

()

()

()

()

()

() <middleeastdirectory.com/>

<http://www.british-airways.com/> ()

<http://www.creditlibanais.com.lb> ()

<http://www.emirateairline.com/> ()

<http://www.arabworldnews.com/> ()

4arabia.com; 4rarabs.com; aiwagolf.com; ajeeb.com; al-bab.com; albawaba.com; arab.net; arabdatanet.com; ()

arabia.com; arabist.com; arabji.com; arabworldnews.com; ameinfo.com; fayez.net; labanis.com; maktoob.com; mebusinessdaily.com; middleeastdirectory.com; middle-east-pages.com; nawal.com; planetarabia.com; zawya.com.

((:)) (*)	()	()	()	
(*) (*) (*) (*) (*)				

.<gksoft.com/govt/en/> () ;<middleeastdirectory.com> () ;<isc.org> () : _____

: _____

= (**)

= (*)

- -
-
-
_____ -
/

" "
" iNet"

-ö

()	()		-		

.For 2001: Ajeeb Research Unit; for 2000: Internet Arab World : _____

Optics Gulf (FOG) "Fibre"
:
(FOG)

" "

.Fibreoptic Link Around the Globe (FLAG)

()

<http://www.batelco.com.bh/> ()

<http://www.inet.com.bh/InetServices/types.asp?CategoryId=1> ()

- -

" " ()

()

" "

/

" " ()"

"GSM"

()

"Inet"

()

()

()

The Global Diffusion of the Internet Project: An Initial Inductive Study (March 1998) ()

<http://www.mosaic.unomaha.edu/gdi.html>

<http://www.netcafeguide.com/countries/bahrain.html> and <http://www.netcafes.com/country.asp?selectcountry=Bahrain> ()

Middle East Economic Digest (MEED), 23 February 2001 ()

.ITU Mobile subscribers per 100 people (2000): <http://www.itu.int/ti/industryoverview/index.htm> ()

<http://www.inet.com.bh/DiscoverBahrain/Business/banks.asp> ()

<http://www.bahrainstock.com/> ()

<http://www.bahrain.gov.bh/english/index.asp> ()

- -
/ " "

@ltijara

()

_____ -

()
()
<travelcity.com>

()
()

" "

()

_____ -

(Middle East Directory)

/

-
- [.http://www.altijara.com/partners.htm](http://www.altijara.com/partners.htm) ()
 - [.http://www.bahrainairport.com/](http://www.bahrainairport.com/) ()
 - [.http://www.gulfairco.com/](http://www.gulfairco.com/) ()
 - [.http://www.bahrainports.gov.bh/](http://www.bahrainports.gov.bh/) ()
 - [.http://www.maersksealand.com/Bahrain/](http://www.maersksealand.com/Bahrain/) ()
 - [.http://www.bahraincustoms.gov.bh/](http://www.bahraincustoms.gov.bh/) ()

- -

-

_____ -

()

()

- ٢

()	()		-			
		()				
,		,				
,		,				

.For 2001: Ajeeb Research Unit; for 2000: Internet Arab World : _____
()

_____ http://www.mideastlaw.com/telecommunications_in_the_middle.htm ()

<http://www.africanconnection.org/docs/factsheets/egypt.html> ()

()

()

()

"FLAG"

SEA-ME-WE2

()

(Nautilus 1) -

/

()

()

()

()

()

()

<http://www.link.com.eg/> ()

<http://www.intouch.com/> ()

<http://www.africanconnection.org/docs/factsheets/egypt.html> ()

www.budde.com.au Report on Egypt, Paul Budde Communications, August 2001; ()

<http://www.vodafone.com.eg/> ()

<http://www.mobinil.com/> ()

<http://www.itu.int/ITU-ITU> Telecommunication Indicators Update-Egypt Country Profile, March 2001 (()

[D/ict/update/](#))

.ITU Internet country Case Studies (<http://www.itu.int/ti/casestudies/letters/egypt.htm>) ()

See Magda Ismail, "Electronic commerce in Egypt," paper submitted at the Expert Group Meeting on Trade Facilitation and Electronic commerce in the ESCWA Region, held at Beirut from 8 to 10 November 2000. ()

<http://www.alhokoma.gov.eg/> ()

.See ESCWA, *Trade Efficiency in ESCWA Member Countries: A Comprehensive Study* (E/ESCWA/ED/1999/6) ()

<http://www.egyptair.com.eg/docs/home.asp> ()

- -

" " ()

()

" "

()

_____ -

(Middle East Directory)

/ .

-

_____ -

/

()

/

<http://www.nnc.egnet.net> ()

<http://www.rafimar.com/> ()

<http://www.lethsues.com/> ()

www.budde.com.au Report on Iraq, Paul Budde Communication, Australia, August 2001, ()

- -

()

()

-

()	()		-		
		()	-		-
,		,			
,		,			

For 2001: Ajeeb Research Unit; for 2000: Internet Arab World : _____
()

()

"GSM"

()

_____ -

()

(Economist Intelligence unit)

_____ -

http://idg.net/crd_iraq_205974.html ()

.Report on Iraq, Paul Budde Communications, Australia, August 2001, www.budde.com.au ()

."Baghdad a l'heure cellulaire," *L'Hebdo Magazine* (Beirut), 17 August 2001 ()

http://www.nua.ie/surveys/?f=VS&art_id=905355788&rel=true ()

- -

_____ -

" " / .

-

_____ -

()

(FLAG)

()	()		-			
		()				
,						
,						

.For 2001: Ajeeb Research Unit; for 2000: Internet Arab World : _____
()

/

_____ .
[.http://www.jordantelecom.jo/news-promotion.htm](http://www.jordantelecom.jo/news-promotion.htm) ()

() ()

"Global one" / "Global one"

()
()

() ()

()

(/ /) "ADSL"

()

" " /

()

Arabia Online ()
Info2cell.com

()

"e-Ministry for Amman," *Middle East Economic Digest* (MEED), 23 February 2001 ()

<http://www.go.com.jo/NewOwner-NewsRates.htm> ()

http://www.go.com.jo/quality_price.htm ()

http://www.go.com.jo/ADSL_Internet.htm ()

http://bell.sympatico.ca/english/home.html?s=3_1&p=hse/pricing.html ()

"e-Ministry for Amman," *Middle East Economic Digest* (MEED), 23 February 2001 ()

"Cairo's leading online role," *Middle East Economic Digest* (MEED), 2 February 2001 ()

"Building e-organisations," *Middle East Economic Digest* (MEED), 2 February 2001 ()

:
.
.

()

()

" "

() (ASYCUDA++)

.()

()

()

()

" "

()

-
- ()
 - [.http://www.customs.gov.jo/framenew.html](http://www.customs.gov.jo/framenew.html) ()
 - [.http://www.asycuda.org/english.htm](http://www.asycuda.org/english.htm) ()
 - [.http://www.nis.gov.jo/portscorp/doc1.html](http://www.nis.gov.jo/portscorp/doc1.html) ()
 - [.http://www.jcaa.gov.jo/airports.htm](http://www.jcaa.gov.jo/airports.htm) ()
 - [.http://www.free-zones.gov.jo/](http://www.free-zones.gov.jo/) ()
 - [.http://rja.com.jo/](http://rja.com.jo/) ()

()

()

/

"

"

:

"

...

()"

"

/

"

-

/

<http://www.astco.io/> ()

<http://www.utdc.com.jo/> ()

<http://mosaic.unomaha.edu/gdi.html> ()

()

(FOG)

(FLAG)

."SEA-ME-WE2"

() ()

()	()		-			
,						
,		,				

.For 2001: Ajeeb Research Unit; for 2000: Internet Arab World : _____

()

()

.Report on Kuwait, Paul Budde Communications, September 2001, www.budde.com.au ()

.<http://www.globalnet-center.com/prices.asp> ()

.ITU Telecommunication Indicators (2000) ()

.*The Global Diffusion of the Internet Project*, March 1998 ()

(WAP)

()

()

/

()

()

()

:

"

()"

<http://www.nbk.com/> ()

<http://www.itp.net/news/97046514755029.htm> ()

<http://www.itp.net/news/9810073567272.htm> ()

<http://www.kuwait-airport.com.kw/> ()

<http://www.kuwait-airways.com/#> ()

http://www.kuwaitfreezone.com/english/about_shuwaikh_fram.html ()

- - -

()

_____ -

/

-

_____ -

()

() (Ogero) " "

()

()

" "

/

()

<http://www.UASC.com.kw> ()

<http://www.mpt.gov.lb/> ()

<http://www.ogero.gov.lb/> ()

<http://www.cdr.gov.lb/cdr/2001/english/Etele.htm> ()

. Council for Development and Reconstruction, Progress Reports 1996-2001 (<http://www.cdr.gov.lb/cdr/indexe.html>) ()

<http://www.mpt.gov.lb/in.htm> ()

.(LibanTelecom)

()

()	()		-			

.For 2001: Ajeeb Research Unit; for 2000: Internet Arab World : _____

∴
()

()

()

(BOT)

http://archive.dailystar.com.lb/leb/2001/February01/01_02_01/B3.HTM ()

<http://www.mpt.gov.lb/isplist.htm> ()

<http://www.fiberlinknetworks.net/lynx/creditfill/credit.asp> ()

<http://www.mpt.gov.lb/leased.htm> ()

(Liban Telecom)

(WAP)

()

() (WAP)

()

" "

<http://www.plugged.com.lb/default.asp> ()

<http://www.creditlibanais.com.lb/> and <http://www.netbank.com.lb/> ()

ESCWA, "Electronic commerce in Lebanon" (E/ESCWA/ED/2000/WG.1/6), 19 October, paper submitted at the ()
Expert Group Meeting on Trade Facilitation and Electronic Commerce in the ESCWA Region, held at Beirut from 8 to 10 November
2000.

()

()

_____ -

" "

()

()

()

()

_____ -

/

<http://www.ogero.gov.lb/hdocs/olbill.asp> ()

.See Lebanon Opportunities, June 2001 ()

<http://www.customs.gov.lb/> ()

<http://www.mea.com.lb/> and <http://www.tma.com.lb/> ()

<http://www.beirutairport.gov.lb/> ()

<http://www.beirut-port.gov.lb/> ()

- -

-

-

" "

()

()

()

- i

()	()		-			
,						
,		,				

.For 2001: Ajeeb Research Unit; for 2000: Internet Arab World : _____

/

" "

/

/

. /

()

<http://www.tradeport.org/ts/countries/oman/mrr/mark0010.html> ()

<http://www.hatiftelecom.com/news/oman.html> ()

<http://www.itp.net/news/96755846225455.htm> ()

<http://www.hatiftelecom.com/news/oman.html> ()

(/)
() () . (,)
()

()

(TradaNet)
()

()

/

()

()

(MOVINS)

(BAPLIE)

:

.(COARRI)

/

.http://www.gto.net.om/ ()

.http://directory-oman.com/http://omanonline.com/index.html and http://www.omanet.com/ ()

.http://www.itp.net/news/97497648081823.htm ()

.http://www.mctmnet.gov.om/PubServ/index.html ()

.http://www.salalahport.com/ ()

.http://www.maersksealand.com/ ()

- - -

()

_____ -

/

(*)

_____ -

(Paltel) " "

/

" "

" "

/

()

()

"PS"

" "

<http://www.omanet.com/seeb.htm> ()

(*)

<http://www.paltel.net/about/index.html> ()

<http://www.ditnet.co.ae/Itnews/newsmar2000/newsmar66.html> ()

()

()

- 1

()	()		-			
						()
,			-		-	
,		,				

.For 2001: Ajeeb Research Unit; for 2000: Internet Arab World : _____

()

()

/

" "

" "

()

() "Palestine.net"

" " ()

() " " ()

<http://www.ameinfo.com/info/isp.htm> ()

<http://jrol.com/business/dialup.htm> ()

<http://www.paltel.net/invest/anual99/page4.htm> ()

<http://www.palestine-net.com/business/list.html> ()

<http://www.pna.net/> ()

<http://www.alburaq.net/> ()

<http://www.paltel.net/press27.html> ()

- -

_____ -

()

_____ -

/

-

_____ -

" " (Q.tel) " "

()

" "

" "

(Internet-Qatar) " - "

- 1

()	()		-			
,						
,		,				

.For 2001: Ajeeb Research Unit; for 2000: Internet Arab World ; _____

<http://www.aca-palestine.com/> ()

."Special report telecoms: Qatar" Middle East Economic Digest (MEED), 25 August 2000 ()

(,) (,)
() () /

"FOG"

" "

"FLAG"

"FOG"

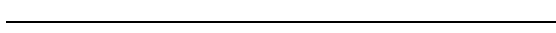
" "

"GSM"

" "

/

()



/ ()

/

<http://www.qatar.net.qa> ()

"Special report telecoms: Qatar," *Middle East Economic Digest* (MEE), 25 August 2000 ()

The Global Diffusion of the Internet, March 1998 (<http://mosaic.unomaha.edu/gdi.html>) ()

- -

()

/

(B2B) "

"

" " Commerce-One Middle East

()

_____ -

() -

()

()

_____ -

/

<http://www.itp.net/features/97556902273780.htm> ()

<http://www.itp.net/news/print/98757290616026.htm> ()

<http://www.customs.gov.qa/customs/en-main.htm> ()

<http://www.qatarairways.com/> ()

<http://www.qatar.net.qa/qnntc/> ()

- -

-

_____ -

()

()

(IBM)

" "

.X.25

()"

/ ,

.MCI Worldcom

/

()

.Report on Saudi Arabia, Paul Budde Communications, August 2001, (<http://www.budde.com.au/Search/index3.asp>) ()

.<http://www.stc.com.sa/> ()

Mosaic Group, The Global Diffusion of the Internet Project, March 1998 and February 1999 ()

<http://mosaic.unomaha.edu/gdi.html>(

.CommsMEA (Communications Middle East and Africa), June 2001 (<http://www.itp.net/corporate/>) ()

()

()

"Saudi

())

Online"

() (/

()

- ii

()	()		-			

.For 2001: Ajeeb Research Unit; for 2000: Internet Arab World : _____

()

()

.Arabian Computer News, June 2001 ()

()

.<http://www.saudionline.net.sa/billing/services.asp> and <http://www.stc.com.sa/> ()

.Arabian Computer News, June 2001 ()

.middle East Economic Digest (MEED), 23 February 2001 ()

)

() (

_____ -

(SWIFT) "

(B2B) "

()

()

()

_____ -

()

()

()

.Arabian Computer News. June 2001 ()

.E-Government in Action 2001: Saudi Arabia, Supplement to *Arabian Computer News*, June 2001 ()

[.http://www.juffalimall.com.sa/](http://www.juffalimall.com.sa/) ()

[.http://www.saudiembassy.net/](http://www.saudiembassy.net/) ()

[.http://www.saudiairlines.com/english/](http://www.saudiairlines.com/english/) ()

[.http://www.pca.gov.sa/KAIA/kaia.htm](http://www.pca.gov.sa/KAIA/kaia.htm) ()

[.http://www.saudiports.gov.sa/](http://www.saudiports.gov.sa/) ()

(Globe Marine services) "

()

()

()

<http://www.globemarine.com.sa/ebusiness/ebusiness.htm> ()

Report on Syria, Paul Budde Communications, August 2001, www.budde.com.au ()

<http://www.ditnet.co.ae/Itnews/newsjul2000/newsjuly2.html> ()

()	()		-			
,						
,		,				

.For 2001: Ajeeb Research Unit; for 2000: Internet Arab World : _____

/ .

()

"GSM"

" "

()

/

" " " "
(BOT)

()

()

(Syria on-line)

()

"

/

"

.Report on Syria, Paul Budde Communications, August 2001, www.budde.com.au ()

."New GSM networks kick off", *Middle East Economic Digest (MEED)*, 27 April 2001 ()

<http://www.syria-online.com/> ()

()

()

- Ç

()	()		-			

.For 2001: Ajeeb Research Unit; for 2000: Internet Arab World : _____

[.http://www.syria-online.com/news_artc/ict.html](http://www.syria-online.com/news_artc/ict.html) ()

[.http://www.ditnet.co.ae/ITnewsjul2000/newsjuly2.html](http://www.ditnet.co.ae/ITnewsjul2000/newsjuly2.html) ()

/

()

"FLAG"

"FOG"

() SEA-ME-WE3

" " " " " "

/

()

()

(Emirates Internet and Multimedia)

)

(

()

/

.Middle East Economic Digest (MEED), 12 January 2001 ()

.http://www.etisalat.co.ae/a_story2.htm ()

.<http://www.thuraya.com/> ()

.ITU Telecommunication Indicators 2001 (<http://www.itu.int/ti/industryoverview/>) ()

.<http://www.emirates.net.ae/> ()

()

/

"GSM"

"GSM"

(

)

/

/

/

"GPRS"

"EDGE"

()

/

()

()

(Comtrust) "

"

()

<http://www.emirates.net/ae/kiosk/index.html> ()

<http://www.itp.net/news/99344669266743.htm> ()

"Electronic commerce in the United Arab Emirates", paper submitted at the Expert Group Meeting on Trade Facilitation ()
and Electronic Commerce in the ESCWA Region, held at Beirut from 8 to 10 November 2000; and *CommMEA*, June 2001.

<http://www.emiratesbank.com/> ()

<http://www.comtrust.co.ae/default.htm> ()

() ()

() / () ()

()

() Tejari.com " " ()

(B2B)

()

()

()

.E-Government in Action 2001 - supplement to *Arabian Computer News*, June 2001 ()

<http://www.dubaiinternetcity.com/> ()

<http://www.dubaimediacity.com/> ()

<http://www.dubaiideoasis.com/> ()

Middle East Economic Digest (MEED), 10 November 2000 ()

<http://www.tejari.com> ()

.E-Government in Action 2001 - supplement to *Arabian Computer News*, June 2001 ()

<http://www.uae.gov.ae/> ()

<http://www.itep.co.ae/itportal/english/main.asp> ()

/ (e-Mirsal) "

:

" "

" " ()

()

()

()

()

:

(Edifact BAPLIE)

<http://www.dxbcustoms.gov.ae/> ()

<http://www.sharjahcustoms.gov.ae/> ()

<http://www.portzayed.gov.ae/> ()

<http://www.fujairahport.com/> ()

<http://sharjh-welcome.com/Commerce/facilities/ports.htm> ()

- -

()

()

()

/
"

(MAX)

(Middle East AirportXchange) "

()

" "

()

_____ -

" "

<http://www.dpa.co.ae/>: and Cargo System, Recent *Developments in Information Technology for Container Terminals*, by Karl Jeffwry. ()

<http://www.dubaiairport.com/> ()

<http://www.shj-airport.gov.ae/> ()

<http://www.ax-max.com/> and the *Daily Star* (Beirut). July 4, 2001 ()

<http://www.emiratesairline.com/> ()

/

(Teleyemen)

(Cable and Wireless)

(,)

()

(,)

()

" "

"GSM"

" "

/

"

()

"

<http://www.y.net.ye/tariff.html> ()

.Mosaic Group, The Global Diffusion of the Internet Project (March 1998) (<http://mosaic.unomaha.edu/gdi.html>) ()

http://www.cellular-news.com/2001/02_17_2001.htm ()

()	()		-			
,						
,		,				

.For 2001: Ajeeb Research Unit; for 2000: Internet Arab World : _____

" "

" "

GSM

()

()

(Yemensoft)

" "

()

()

()

()

<http://pressmedia.com/jemen/telekom.htm> (in German) ()

<http://www.YemenWeb.com/> ()

<http://www.yemensoft.net/oclients.htm> ()

<http://www.y.net.ye/> ()

.Mosaic Group, The Global Diffusion of the Internet Project (March 1998) (<http://mosaic.unomaha.edu/gdi.html>) ()

<http://home.earthlink.net/~yemenair/> ()

- -

. () (Arab World Online Site)

.

_____ -

. ()

()

. ()

.

/

_____ <http://www.awo.net/country/aden.asp> ()

. Mosaic Group, The Global Diffusion of the Internet Project (March 1998) ()

())

(

;()

- ()
- ()
- ()
- ()
- (●)
- ()
- ()
- ()
- ()
- ()
- ()
- ()
- ()

- -

_____ -

()

()

()

()

(•)

()

_____ -

()

()

()

- -

_____ -

.

.

.

.

_____ -

()

()

()

.

_____ -

()

()

()

()

_____ -

.

.

- -

:

()

()

_____ -

:

()

()

_____ -

()

()

()

()

(•)

_____ -

- -

.

_____ -

()

.

()

/

.

-

" " " " " "

.

.

.

.

.

()

()

/

/

/ ()

/

:

" " " " " "

:

()

UNCTAD, *Building Confidence; Electronic Commerce and Development* (New York and Geneva, United Nations, 2000). ()

UNCTAD, "Legal dimensions of electronic commerce: report by the UNCTAD secretariat" (TD/B/COM.3/EM.8/2), 4 May 1999. ()

- -
-

()

_____ ()

- -

" "

.

.

.

.

"

"

.

.

.

() :

()

_____ ()

" "

.

.

.

"

" "

"

- -

.

.

.

-

-

.

: ()

()

_____ ()

_____ ()

_____ ()

Executive Secretariat of CIAT (Inter-American Centre of Tax Administrations), "Addressing the key tax policy () and administration issues raised by e-commerce", paper submitted at the conference on Tax Administration in an Electronic World, hosted by the Canada Customs and Revenue Agency and held in Montreal, Canada, from 3 to 6 June 2001.

OECD, Electronic Commerce: *Taxation Framework Conditions - A report by the committee on Fiscal Affairs*, as () presented to the Ministers at the OECD Ministerial Conference on "A Borderless World: Realising the Potential of Electronic Commerce," 8 October 1998.

_____ ()

_____ ()

_____ ()

()

- -

_____ ()

()

	:	-	_____
			()
		_____	()

			()
			()

			()

_____ ()

()

()

()

()

()

)

(

Executive Secretariat of CIAT (inter-American Centre of Tax Administrations), "Addressing the key tax policy and : _____ administration issues raised by e-commerce", paper submitted at the conference on Tax Administrations in an Electronic World, hosted by Canada Customs and Revenue Agency and held in Montreal, Canada, from 3 to 6 June 2001.

:

()

()

()

()

()

(•)

()

" " " "

()

ã .

()

" " " " " "

()

()

.UNCTAD, *Electronic Commerce, Legal Considerations* (UNCTAD/SDTE/BFB/1), paras. 91-179, May 1998 ()

()

()

()

()

()

)

(

()

()

()

()

()

()

<http://www.wipo.int/about-wipo> ()

()

()

" " /

(" ")

()

" " ()"

" "

/

()

<http://www.wipo.int/about-wipo/en/index.html> ()

<http://www.wipo.int/members/members/index.html> ()

()

()

(WPPT)

(WCT)

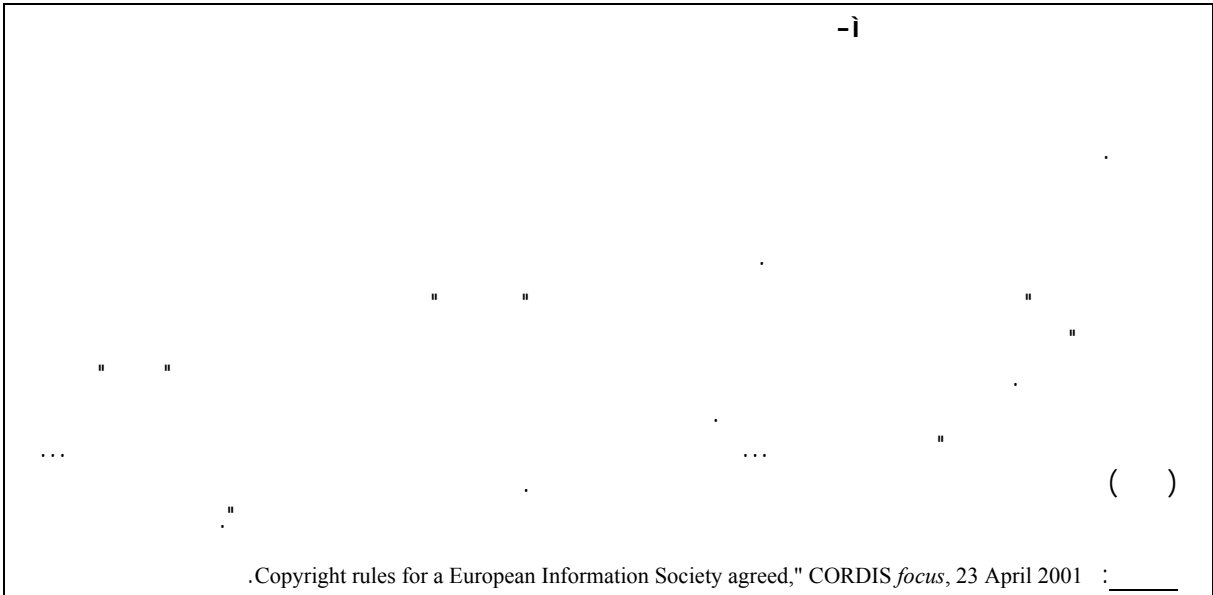
" "

/ ())

(()

" "

" " "



.Antoine Feghali, *Trade Facilities and Electronic Commerce: Lebanon Case Study*, 2000 ()

CORDIS (Community Research & Development Information Service), "Copyright rules for a European Information Society agreed," CORDIS *focus*, issue No. 171, 23 April 2001.

()

()

()

-1

(EU Directive 95/96 EC)

)

("

95/46 EC

European Commission, Internal Market DG, "Transfer of personal data to third countries," *Single Market News*, : _____
No. 26, May 2001 (http://www.europa.eu.int/comm/internal_Market/en/smn/26/26mn22.htm).

()

.OECD, Forum for Electronic Commerce, 1999 ()

/

() (B2C)

()

()

()

"

(B2C) "

.UNCTAD, "Building Confidence", 2000 ()

.OECD, *Consumer Protection in the Electronic Market Place*, 1998 ()

) " (B2B) " (

/

_____ -

_____ ()

()

()

()

()

()

()

_____ ()

()

()

()

()

_____ ()

.

_____ ()

()

- -

()

.

_____ (•)

()

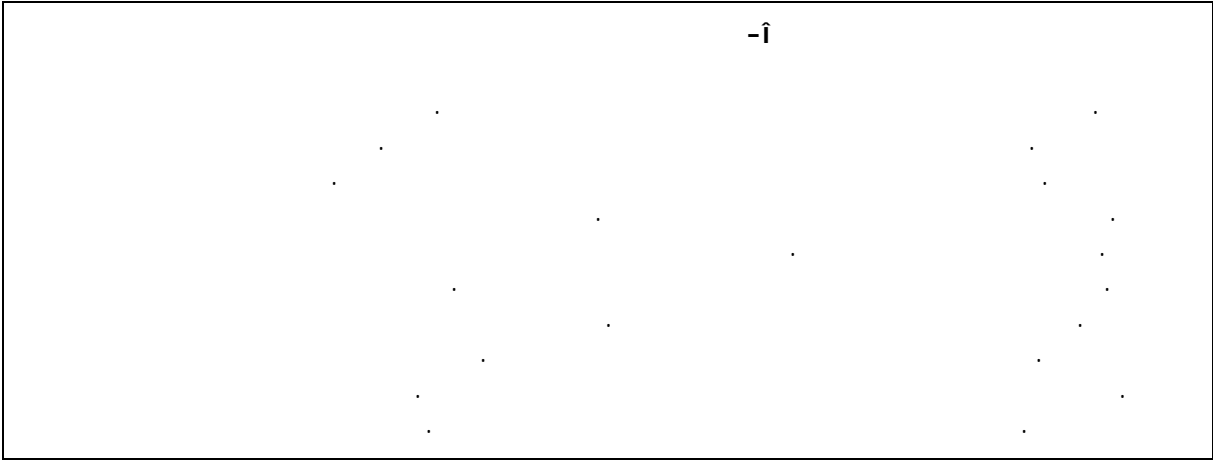
() ()

()

()

Joilson Dias, "Digital money - the welfare implication of this technological advance," in World Market Series ()
Executive Briefing on e-Services for Trade, Investment and Enterprises, World Markets Research Centre, 2001.

.David Kosiur, *Understanding Electronic commerce* (Redmond [Washington], Microsoft Press, 1997) ()

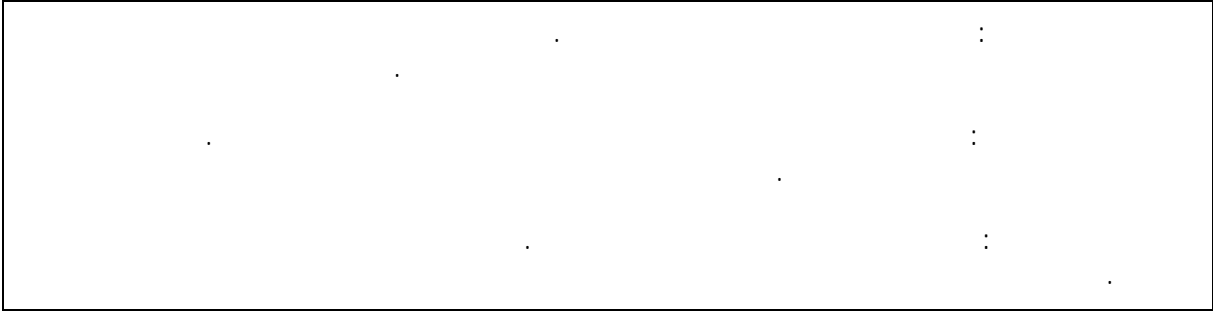


-i

()

International Trade Centre, UNCTAD/WTO, *Secrets of Electronic Commerce: A Guide for Small - and Medium - ()
Sized Exporters* (Geneva, 2000); UNCTAD, *Building Confidence*, 2000; and Data and Investment Consult-Lebanon. *The White
Book On Middle East E-Commerce and E-Finance*.

()



()
()
()

()

()

()

()

"SET" Netscape () "SSL" :
"SET" "SSL" ()
"SSL" .
"SET" ()

"SET"

"SET 2.0"

."SET"

() "SET"

"SET"

."First Virtual" () "Cyber cash" () "Wire card"

_____ ()

" " (B2B) " " (B2C)
(B2B) " "
) .
(

-

-

_____ ()

.Kosiur, op. cit ()

.www.wirecard.de ()

.www.cybercash.com ()

- -

()

" " " "

:

"Sun" " " "AOL Netscape"

"Spectrum" ()

"AOL" "Quicken" "AOL"

Money Central

"Yahoo" " " "TransPoint"

"Yahoo! BillPay" "CheckFree"

()

()"

_____ ()

.www.bankofamerica.com ()

.Frank Feather, *Futureconsumer.com: The webolution of shopping to 2010* (Toronto, Warwick Publishing, 2000) ()

()

"SET"

) () "PayNow" :
) () eCheck ("Cybercash" "CyberCash"
(FSTC)

"CyberCash" "VeriSign" "CyberCash"
. "Pay Flow" "VeriSign"

(FSTC) ()
"CommerceNet" "FSTC" "eCheck" CommerceNet
(FSML) "eCheck"
"eCheck"

()

www.ecybercash.com ()

www.echeck.com ()

"eCheck" ()

"Agorics"

SafeNet RDM IBM GTE

."CommerceNet to join FSTC on eCheck initiative," press release, October 1999 (www.echeck.com) ()

- -

_____ ()

(PIN)

."PIN" :

_____ ()

)

.(

- -

()

()"

()

()"DigiCash" ()"NetCash")

"DigiCash"

"NetCash"
()

"IBM"

"IBM"

()

()

"CyberCoins"

"MilliCent"

()

"DigiCash"

(")

.Kosior, op.cit ()

.www.digicash.com ()

.Developed by the University of Southern California in 1994 ()

.Amor, op. cit ()

.Feather, op. cit ()

_____ ()

"EC)

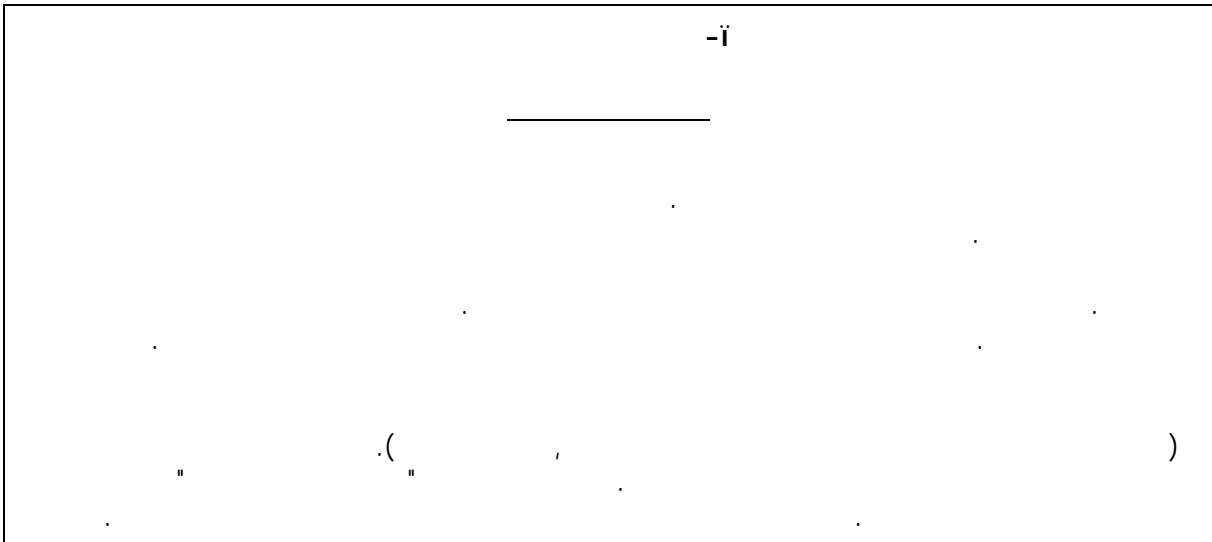
(card"

(GeldKarte) "

" ()

(Mondexcard) "

"



() i

" " -

(ZKA)

(" ")

" " " " .

) ,

.(,

)

" "

(

()

S. Rother, "Analysis and evaluation security Futures of Germany's GeldKarte", : _____
(<http://www.tuv-it.de/de/SUCHEN/index-s.htm>); and www.mondex.com.

()

_____ -

()

.Ismail, op. cit ()

- -

-

--	--	--	--

" " " "

(B2B) "

"

(B2C) "

"

-

--	--	--	--

(B2B) "

"

"

- -

(B2B) "

)

.(

_____ -

(

)

(

)

()

.(VAN) "

"

"

"

.(B2B) "

() "CHIPS"

.() SWIFT

(VAN)

()

"XML"

"XML"

()

XML""

()

_____ ()

Palm)

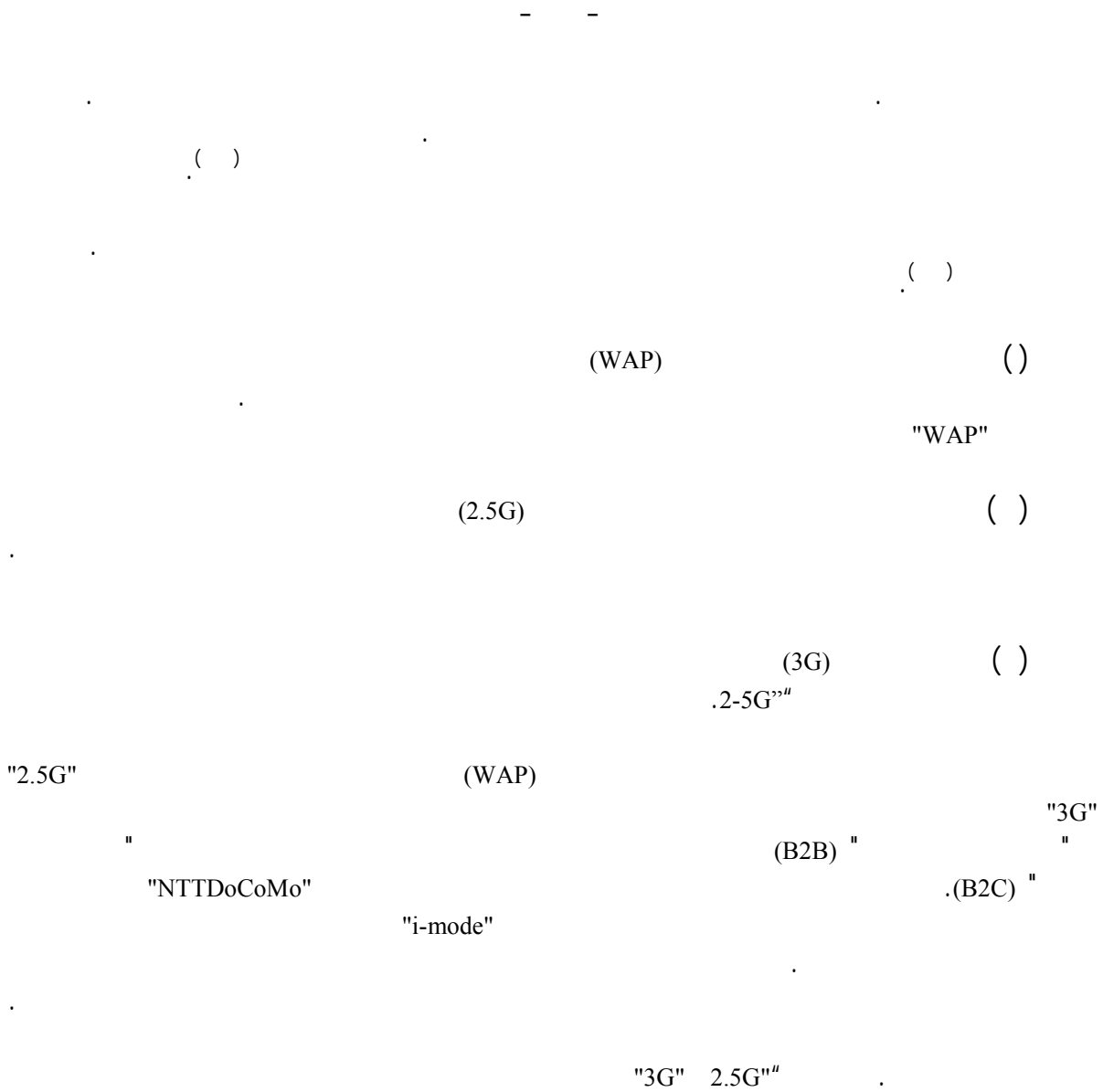
(Ipaq workpad

(3G)

()
(Epoc Linux PalmOs Windows)

UMTS

()



Rod Ghani, "The future of banking and financial systems", World Market Series, Executive Briefing on ()
 E-Services for Trade, Investment and Enterprises, World Market Research Centre, 2001.

.e.biz, *Business Week*, January 2001 ()

()

" "

" "

)

()

.(

_____ -

()

()

()

.Dias, op.cit ()

()

- -

)

(()

()

(•)

()

)

(()

()

-

/

:

- ()
- ()
- ()
- ()
- (•)

_____ ()

_____ ()

_____ ()

_____ ()

()

_____ (•)

()

)

:

()
(

()

()

()

(•)

:

_____ ()

: ()

: ()

: ()

: ()

()

_____ ()

(Continental Airlines) ()

()

MCI Worldcom ()

()

:

) ()

(

() ()

()

.Amor, op.cit ()

.Gholam, op. cit ()

()

() (•)

(" ") ()

() ()

_____ -

_____ ()

)
(

" "

_____ ()

" " "Crypto" () "Cryptology" " " "Logos"
" " "Cryptology" ()

()
.Amor, op. cit ()

.

.

.

.

.

.

.

.

-

.

.

-

.

-

.

.

:

(

)

()

(

)

()

()

()

:

- -

()

()

()

()

/

Butler Group

()

()

() "GlobalSign" "VeriSign" "Nortel" "Cybertrust"

()

"The net imperative", The Economist, 26 June 1999, cited in UNCTAD, Building Confidence: Electronic Commerce and Development (New York and Geneva, 2000). ()

()

() ()

"United Parcel Services"

_____ (•)

.PIN¹²³⁴"

()

_____ ()

(/)

_____ ()

(VPN)

" "

()

.Certification authorities: VeriSign (www.verisign.com), Belsign (www.belsign.be), Xcert (www.xet.com), etc ()

.Kosiur, op. cit ()

()

()

()

()

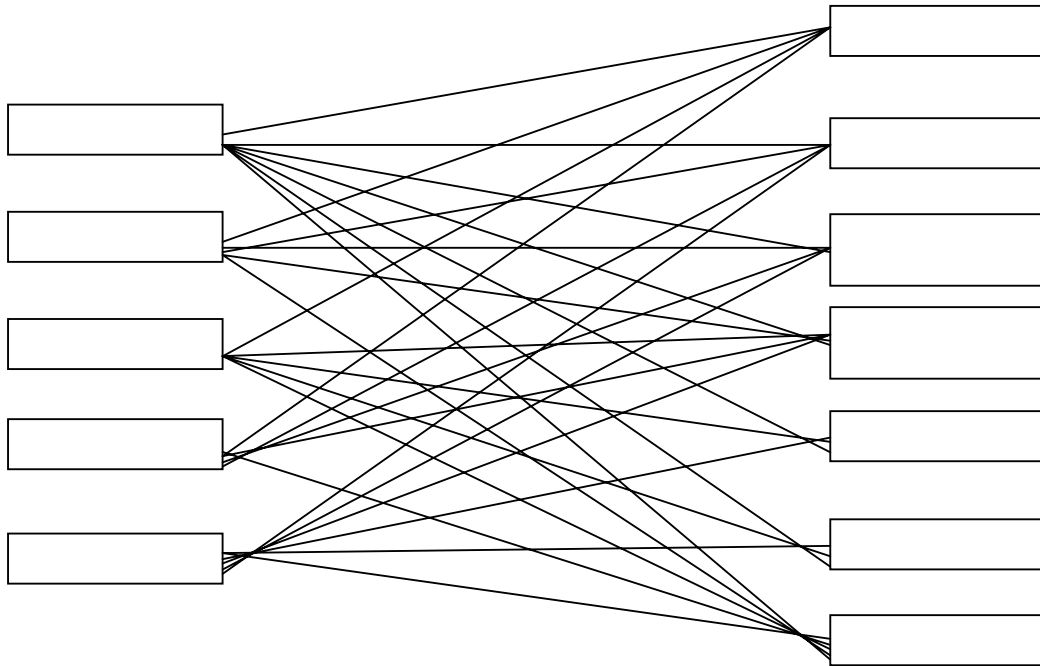
.(

)

)

(

()





(B2C) " " (B2B) "
(B2C) " (" (B2B) "

/

.(B2B) "

" " " " .(B2B)

/

(" ")

"Covisint.com" "

" " " " " "

- -

-

:

()

()

()

()

()

"

"

()

"

"

()

()

- -

(•)

()

()

()

.

_____ : _____ -

()

()

.

"

" "

" "

()

"

()

(•)

.

()

- -

()

()

/

()

()

()

()

()

_____ : _____ -

()

()

()

()

(•)