

## E-Business and The Arab World

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ICT Federal Reserve Board

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Economy

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Information Revolution \_\_\_\_\_

Information Age

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**Internet Economy** \_\_\_\_\_  
**Business**  
**.(B-C)** **(B-B)**  
**e-Business** \_\_\_\_\_  
**e-Shopping** \_\_\_\_\_ **e-commerce** \_\_\_\_\_  
**online banking** /  
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**.e-banking** **e-com** **e-business**  
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<a href="http://www.dubaiinternetcity.com">www.dubaiinternetcity.com</a>	
<a href="http://www.emirates.net.ae">www.emirates.net.ae</a>	
<a href="http://www.comtrsut.co.ae">www.comtrsut.co.ae</a>	<b>e-com</b>
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*Access to information and communications- -*

Country/Region	Internet users (per 1,000 inhabitants)	Telephones (per 1,000 inhabitants)	Personal computers (per 1,000 inhabitants)	Printing and writing paper consumed (metric tons per 1,000 inhabitants)			
	2000+	1996	1996	1990	1992	1994	1995
Arab countries		54*	5.7**	3.4	2.8	3.9	2.9
World		130*	43.6**	20.3	14.1	20.6	20.9
Least developed countries		3*	-	0.3	-	0.5	0.4
Developing countries		31*	6.5**	4.0	3.5	5.8	5.2
Industrial countries		478*	78.2**	95.2	61.9	74.0	156.3
<b>Arab countries</b>							
Bahrain	37.5	241	66.8	4.2	6.0	11.0	7.6
United Arab Emirates	400	308	66.7	-	-	39.3	38.4
Kuwait	100	232	74.1	16.2	5.7	27.4	6.7
Qatar	45	239	62.7	8.2	5.5	3.7	2.2
Libya	7.5	68	-	2.1	2.2	0.9	0.5
Lebanon	227.5	149	24.3	9.1	8.0	16.9	4.1
Saudi Arabia	300	106	37.2	3.9	5.4	5.9	4.6
Oman	50	86	10.9	4.9	3.8	6.4	1.0***
Syria	20	82	1.4	2.4	1.3	2.6	2.7

Algeria		44	3.4	3.8	2.4	2.9	2.8
Tunisia	110	64	6.7**	5.3	3.8	7.3	6.4
Jordan	87.5	60	7.2	4.4	8.9	6.9	7.4
Egypt	440	50	5.8	4.6	3.8	5.0	3.2
Morocco	52.5	46	1.7**	1.7	1.5	3.0	2.5
Iraq		33	-	3.9	1.7	0.4	2.7
Mauritania		4	5.3	-	-	0.4	0.1
Yemen	12	13	-	-	-	0.5	-
Sudan	10	4	0.7	0.3	0.1	0.2	0.1
Djibouti		31*	-	-	-	0.1	-

Source: UNDP 1994-1999

\* Data refers to 1990-92 figures

\*\* Data refers to 1995 figures

\*\*\* According to UNDP's 1997 HDR to which we do not concur

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RIPE Hostcount, June 2000					
Country	People/Host	Population	% of All TLDs Population	Real Hosts	% of All TLDs Real Hosts
UAE	83	2,353,000	0.18	28,467	0.25
Bahrain	389	595,000	0.04	1,530	0.01
Oman	827	2,382,000	0.18	2,880	0.03
Lebanon	1,028	3,191,000	0.24	3,104	0.03
Saudi Arabia	4,740	20,181,000	1.52	4,258	0.04
Jordan*	6,636	6,304,000	0.46	950	0.01
Qatar	10,158	579,000	0.04	57	0.00
Djibouti	15,575	623,000	0.05	40	0.00
Morocco	16,413	27,377,000	2.06	1,668	0.01
Egypt	30,182	65,978,000	4.96	2,186	0.02
Algeria	107,050	30,081,000	2.26	281	0.00
Tunisia	388,958	9,335,000	0.70	24	0.00
Yemen*	675,480	16,887,000	1.22	25	0.00
Eritrea	894,250	3,577,000	0.27	4	0.00
Syria	2,190,429	15,333,000	1.15	7	0.00
Iraq *	-	21,800,000	1.58	0	0.00
<b>Total:</b>		<b>226,576,000</b>	<b>17.02</b>	<b>45,481</b>	<b>0.40</b>
<b>Total of RIPE</b>		<b>1,330,835,480</b>	<b>100</b>	<b>11,365,271</b>	<b>100</b>

Source: RIPE Network Coordination Centre  
 Sorted out by "People/Host" indicator  
 \* Data for January 2000



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: **Secure Servers** (د)

**e-Business**

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**.Public Key Infrastructure (PKI)**

**Third Party  
Certificates**

**PKI**

**.Encrypted ( )**

**.Certification Authority (CA)**

**.Digital Signature**

**Authentication**

**.Global Sign Verisign**

**e-business**

**Wisekey**

**WTC**

**ITU**

**International "**

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**e-com project**

**.(Secure Electronic Transaction Organization (ISETO**

**.([www.wisekey.com](http://www.wisekey.com) [www.iseto.ch](http://www.iseto.ch) )**

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**Secure Servers**

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BREAKDOWN OF INTERNET USERS NUMBERS IN THE ARAB WORLD				
Country	Number of Subscribers	Number of Users per Account	Total Number of Users	Internet User Population per 1000 people
UAE	160,000	2.5	400,000	150
Saudi Arabia	100,000	3	300,000	14
Bahrain	15,000	2.5	37,500	60
Libya	1,500	5	7,500	1.6
Sudan	2,000	5	10,000	0.28
Qatar	18,000	2.5	45,000	61
Oman	20,000	2.5	50,000	20
Kuwait	40,000	2.5	100,000	50
Egypt	55,000	8	440,000	6.5
Yemen	3,000	4	12,000	0.7
Lebanon	65,000	3.5	227,500	57
Syria	4,000	5	20,000	1
Jordan	25,000	3.5	87,500	19
Morocco	15,000	3.5	52,500	1.7
Tunisia	22,000	5	110,000	12
<b>Total</b>	<b>545,500</b>	<b>3.5 (total average)</b>	<b>1,899,500</b>	
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Internet Subscriber in Arab Countries							
Country	Number of Subscribers					Number of Users	Growth Rate Dec. 1998- April 1999
	July '97	Nov. 97	Oct. 98	Dec. 98	Apr. 99		
UAE	15,250	27,000	52,000	61,200	81,700	204,300	33.5%
Oman	3,860	6,490	11,000	12,700	16,000	40,000	26.0%
Qatar	2,800	5,185	7,000	8,500	11,000	27,500	29.4%
Bahrain and KSA	13,000	16,000					
Bahrain**	7,000	8,000	11,000	11,700	13,000	32,500	11.1%
KSA**	6,000	8,000	15,400	18,700	45,000	112,500	140.6%
Lebanon (& Syria)*	12,000	15,000	27,500	30,700	52,900	132,200	72.3%
Kuwait	10,000	14,000	20,000	22,000	25,100	62,800	14.1%
Egypt	12,000	14,500	32,000	36,400	51,800	207,200	42.3%
Yemen	920	840	2,000	2,200	2,500	6,300	13.6%
Jordan	4,000	6,000	14,000	16,600	20,100	50,300	21.1%
Tunisia	1,200	1,400	4,000	4,700	6,000	15,000	27.7%
Morocco	3,000	4,500	9,500	11,200	14,100	32,500	25.9%
<b>Total</b>	<b>78,030</b>	<b>110,915</b>	<b>205,400</b>	<b>236,600</b>	<b>339,200</b>	<b>923,100</b>	

Statistics were rounded to the nearest 100. Margin of error:  $\pm 5$

\* Syrian subscribers form a small portion of the combined statistics. They mostly have only e-mail connection

\*\* Saudi statistics are conservative and could rank much higher. Bahrain statistics include Saudi subscribers - excluded from Saudi statistics.

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ASMO 708

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Expert Systems

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Portals

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√	E	<a href="http://www.abohsali.com.lb">www.abohsali.com.lb</a>		
√	E	<a href="http://www.zalatomosweets.com">www.zalatomosweets.com</a>		
√	E	<a href="http://www.rhallab.com">www.rhallab.com</a>		
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√	E/A	<a href="http://www.netnile.com">www.netnile.com</a>		
√	A	<a href="http://www.aljareh.net">www.aljareh.net</a>		
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	<a href="http://www.lebanonshop.com">www.lebanonshop.com</a>	<b>Lebanon Shop</b>
	<a href="http://www.internetbouquet.com.lb">www.internetbouquet.com.lb</a>	<b>Internet Bouquet</b>
	<a href="http://www.eshop.com.lb">www.eshop.com.lb</a>	<b>e-Shop</b>
	<a href="http://www.booksplus.com.bh">www.booksplus.com.bh</a>	
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	<a href="http://www.14m.com">www.14m.com</a>	<b>14m</b>
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	<a href="http://www.electrostores.com">www.electrostores.com</a>	<b>Electrostores</b>
	<a href="http://www.egyptflowers.com">www.egyptflowers.com</a>	
	<a href="http://www.diwan.com">www.diwan.com</a>	
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	<a href="http://www.dar-us-salam.com">www.dar-us-salam.com</a>	
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		-		<a href="http://www.arabiccd.com">www.arabiccd.com</a>			
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<b>Gif</b>		-		<a href="http://www.classnet.com/shop">www.classnet.com/shop</a>			

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			<a href="http://www.netspective.com">www.netspective.com</a>	ISL	
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			<a href="http://www.sindibad.co.uk">www.sindibad.co.uk</a>		

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### Portals \_\_\_\_\_

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Portals				
e-com				
√	A		<a href="http://www.naseej.com">www.naseej.com</a>	
√	A/E		<a href="http://www.islam-online.net">www.islam-online.net</a>	
	E		<a href="http://www.arabsites.com">www.arabsites.com</a>	
	E		<a href="http://www.arab.net">www.arab.net</a>	
√	A/E		<a href="http://www.konouz.com">www.konouz.com</a>	
√	A/E		<a href="http://www.ayna.com">www.ayna.com</a>	
√	A/E		<a href="http://www.arabia.com">www.arabia.com</a>	
√	A/E		<a href="http://www.sakhr.com">www.sakhr.com</a>	
	A/E		<a href="http://www.dit.net">www.dit.net</a>	DIT
√	E		<a href="http://www.etisalat.co.ae">www.etisalat.co.ae</a>	
√	A/E/F		<a href="http://www.lebanonlinks.com">www.lebanonlinks.com</a>	
	E		<a href="http://www.lebanon.com">www.lebanon.com</a>	
	A/E		<a href="http://www.palestine-net.com">www.palestine-net.com</a>	
	A/E		<a href="http://www.albahrain.com">www.albahrain.com</a>	
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internet-banking PC-banking  
Credit Card transaction over the internet

Cyber Cash Inc.

Virtual Bank Net Bill Secure Electronic Transaction (SET)  
e-business Electronic Wallet Smartcards

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<a href="http://www.ebil.co.ae">www.ebil.co.ae</a> <ul style="list-style-type: none"> <li>▪ <a href="http://www.ebil/ebi/index.html">www.ebil/ebi/index.html</a></li> <li>▪ <a href="http://www.ebil/meb/index.html">www.ebil/meb/index.html</a></li> <li>▪ <a href="http://www.bankgsm.com">www.bankgsm.com</a></li> </ul>	<ul style="list-style-type: none"> <li>▪</li> <li>▪</li> <li>▪</li> </ul>
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<a href="http://www.pibank.com">www.pibank.com</a>	
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**Digital**

**e-business**

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e-com	
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<a href="http://www.ups.com">www.ups.com</a>	UPS
<a href="http://www.fedex.com">www.fedex.com</a>	Fed Ex
<a href="http://www.aramex.com">www.aramex.com</a>	Aramex
<a href="http://www.ocs-inc.com">www.ocs-inc.com</a>	OCS

**e-Commercial**

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**Secure Servers**

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