### **CHAPTER 4**

### UP-DATE: THE INTERNET IN THE KINGDOM OF SAUDI ARABIA

#### **SECTION I**

#### Introduction

This chapter up-dates the initial assessment of the development of the Internet in Saudi Arabia presented in the first of the Global Diffusion of the Internet Project reports<sup>1</sup> with research conducted through January 1999. Events leading to the official inauguration of public access Internet service in the Kingdom are reviewed, and the current state of the Internet within the country is assessed. As this report is being written in early 1999, the situation in Saudi Arabia is in transition. Companies are reserving domain names and IP address space, getting ready to move their Web sites into the Kingdom from their current off-shore locations, and setting up corporate intranets. Individuals will be able to sign up for service as soon as any of the 41 licensed ISPs have their installations and connections complete. The first will probably come on-line within the next two months. Estimates of likely up-take of the new service range from only 50,000 subscribers within the first year, due to government access restrictions,<sup>2</sup> to the government's estimate of 115,000 subscribers.<sup>3</sup>

### **Summary**

Saudi Arabia will soon be the last country on the Arabian Peninsula to offer public access Internet service. The Internet Service Unit (ISU) of the King Abdulaziz City for Science and Technology (KACST) officially opened its network to licensed commercial ISPs in early January 1999, and public access will be available soon. The decision to allow such access had first been announced in April 1997, following several years of explicit study and deliberation.

In June 1998, proposals were submitted by companies seeking a license to become an ISP. In August, KACST announced the names of 71 that were deemed qualified to seek licenses. In December 1998, the names of the 40 companies that were to receive ISP licenses were announced at the same time that it was announced that the state telecommunications monopoly, the newly-"privatized" Saudi Telecommunication Company (STC) would also become a commercial ISP (i.e., the private sector ISPs were to compete with the public sector entity from which they would have to acquire their Internet connections). Port fees and price ceilings were also announced, the former being relatively high and the latter low enough to cause many would-be ISPs concern.

In late 1998, the STC established an international satellite link to the Internet in New York via AlterNet, a subsidiary of UUNET Technologies (now a subsidiary of MCI Worldcom).

"Public access" was to commence on 9 January 1999. Actually, this was the date on which the ISPs could expect to have their connections to the Internet, via the STC and ISU, activated. Actual public access will be available once the ISPs are fully operational. As of mid-January, about 500 IP addresses

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Goodman, et al., An Initial Inductive Study, op. cit., pp. 207-218.

<sup>&</sup>lt;sup>2</sup> "Internet Comes to Saudi," *IT News*, 4 November 1998, <a href="http://www.ditnet.co.ae/html/newsnov/newsnov0198.html">http://www.ditnet.co.ae/html/newsnov/newsnov0198.html</a> (4 November 1998).

<sup>&</sup>lt;sup>3</sup> "Saudi Arabia: In Brief," *Middle East Economic Digest* 42 (6 November 1998), p. 30.

were active, more than 80 percent of which were associated with the KACST or ISU, but there were no signs that any ISPs were open for business. Many of the active IP addresses appear to be router ports associated with the complex system of firewalling set up by the ISU, which is responsible for implementing what is likely the most extensive attempt at Internet content access control in the world.

### **Conclusions**

Public access to the Internet is imminent in Saudi Arabia. The demand for service appears to be highest in the commercial sector, although there is significant personal interest as well. The government estimates that more than 100,000 subscriptions will be opened in the first year of service, a figure that likely includes users on connected corporate intranets.

The STC has established a link to the Internet independent of the telemedicine link from the King Fahd Specialist Hospital and Research Center (KFSHRC), and is setting up a domestic infrastructure to facilitate interconnection of ISPs in every province and major city with the ISU in Riyadh. While Telecommunications Expansion Project 6 (TEP-6) significantly improved and expanded inter-city links with fiber optic cabling and digital transmission, subscriber access will be limited by the variable quality of local loop connections. TEP-7, currently in progress, and the proposed TEP-8 should address these concerns. There do not appear to be any plans at present to establish an IP backbone/intranet separate from the STC's public switched telephone network (PSTN) infrastructure.

It appears that the Saudi government has devoted significant resources to establishing a complex technical base with which to strictly limit Saudi subscribers' access to foreign Internet hosts. The goal appears not merely to block objectionable sites, a technique used in neighboring countries and often bypassed, but install a fool-proof system that limits communications to approved channels using a network of gateway routers, firewalls, and proxy servers. In addition to hardware controls, sophisticated software tools such as WebSENSE (from NetPartners Internet Solutions Inc. of San Diego, California) may also be in use.

While there has been some negative commentary in the foreign press and dire warnings from dissident groups regarding content access controls in Saudi Arabia, there is virtually no discussion, certainly no negative comments, in Saudi sources. Most commercial and government proponents of the Internet agree that some control is necessary. The commercial sector is unconcerned so long as business communications are not hindered. Public reaction remains to be seen. There are reports that the restrictions will indeed be Draconian. If this is the case, there may be some public outcry. However, should the restrictions not be apparent to the average new Web-surfer, the public's desire for Internet access—of any sort—will likely outweigh any concerns over controls, just as has been the case in neighboring UAE.

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<sup>&</sup>lt;sup>4</sup> See, for example, "Internet Comes to Saudi," *op. cit.*, which quotes unidentified "industry insiders" as saying that, rather than blocking undesireable sites, the ISU system will allow access only to a restricted list of officially sanctioned sites.

#### SECTION II

### **Analysis: Internet Developments in the Kingdom**

*Background* The Kingdom has had an Internet connection since 1994, when the KFSHRC established a satellite link to Bethesda, Maryland, via the International Medical and Educational Data Link (IMED). The connection and limited Saudi Internet infrastructure was managed by the Washington Coordinating Center, which also hosted official Saudi government Web sites in the United States. Access to the Internet in Saudi Arabia from 1994 through 1999 was limited to selected staff at the KFSHRC, KACST, and King Saud University (KSU), all Riyadh-based organizations. KACST was linked to KFSHRC via microwave, and KSU staff accessed the Internet at KACST (there being no link to the nearby KSU campus).

A few commercial organizations, such as Saudi Aramco, have had private Internet links for several years. Use of these links is limited to company business, and access is strictly regulated.

Public access to the Internet, with significant restrictions, was approved by the Council of Ministers in April 1997 after two years of investigation and deliberation on the part of most government constituencies. The Council decided that KACST should be the sole international connection point for the Internet, and that an unspecified number of ISP licenses be issued to private companies which would be connected to the Internet via KACST. KACST was to maintain a firewall, or other appropriate technology, to screen the Saudi masses from "inappropriate" material, principally pornography, other information in contravention of strict Islamic values, and anti-government (anti-House of Ibn Saud) propaganda. Dr. Salih al-'Adhl, president of KACST, said that they would be "careful to install the necessary technology and programs to protect society from the negative aspects of this network."

In February 1998, al-'Adhl announced that public Internet services would be available in "three to six months." This was to prove to be an overly optimistic estimate. Aside from the technical aspects, there were powerful commercial (and Royal) entities competing for the right to become the exclusive ISP in Saudi Arabia. By May, the KACST had established the Internet Service Unit (ISU), which was to maintain the national Internet hub and firewall, as well as oversee the ISP licensing process. A briefing for prospective ISPs was held at KACST on 5 May 1998 to provide background information on the procedures. At that time, the Arabic Information Network, a local consultancy, estimated that 45,000 subscribers would sign up for Internet service within the first year.

The task apparently overwhelmed the KACST, however, which hired Mannheim (Germany) University's *Gesellschaft für Technische Zusammenarbeit* (GTZ, Society for Technical Cooperation) as its consultant in June 1998. GTZ assisted KACST/ISU with both technical and organizational

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Mahdi Abu-Fatim, "Official on Introduction of Internet Into Kingdom," Al-Riyadh (Riyadh) (6 December 1997), p. 27, as reported in FBIS-NES-97-348, Daily Report: Near East & South Asia (16 December 1997), via World News Connection.

<sup>&</sup>lt;sup>6</sup> Khalid al-Fayiz, "Internet Available to All Saudis in Six Months," '*Ukaz* (Jeddah) (24 February 1998), p. 9, as reported in FBIS-NES-98-058 (4 March 1998), via World News Connection.

<sup>&</sup>lt;sup>7</sup> See, for example, the discussion of the early jockeying for position in Goodman, *et al.*, *An Initial Inductive Study*, *op. cit.*, pp. 216-217.

<sup>8 &</sup>quot;Saudi Arabia: Internet discussions planned...," Middle East Economic Digest 42 (8 May 1998), p. 28.

matters, prepared the Request for Proposals (i.e., application forms) for would-be ISPs and a business plan, and conducted a market survey. GTZ's initial estimate placed the Internet market in Saudi Arabia at a minimum of 30,000 subscribers. The group intended to commence pilot services by September 1998 with a goal of having at least the Dammam area fully on-line by the end of the year. Companies that cared to obtain a sizable bank guarantee against potential future fines and could afford the expensive connections were invited to compete for five-year, renewable, non-transferable licenses to offer public Internet access services within specified services areas. Up By the 3 June deadline for submitting applications, more than 200 companies had expressed interest in becoming ISPs and at least 160 of them had formally applied for licenses. By July, the Riyadh Chamber of Commerce concluded that service would be available in Dammam, Jeddah, and Riyadh "around" January 1999, and that the total Internet market was 120,000 subscribers.

In early August, the KACST announced the names of the 71 companies that had "qualified" to become ISPs (see Tab G). It was expected, but not official policy, that all companies that qualified would receive licenses at some unspecified future date. However, on 11 August, Fahad al-Hoymany of the KACST's ISU noted that they had yet to decide how many of the qualified companies would actually receive licenses. He reiterated, however, that services should commence before the end of the year. The ISU subsequently announced that it would accept ISP license applications from qualified companies through 21 September 1998, and announce the list of licensees in mid-October with a view toward having them begin service in December. Abdullah Musa, in charge of Internet services at KACST, speculated that the total number of subscribers in the first year alone would reach 115,000.

Also in August, Al-Hoymany confirmed that "firewalls ... would block access to sites considered sensitive." He further noted that the STC "was setting up servers across the country to handle the data traffic." Although it was not stated, this implied that domestic backbone connections would be provided exclusively by the STC. Since "last mile" local loop connections are also the exclusive province of the STC, ISPs will apparently be limited to handling subscriber accounts, i.e., customer service.

The list of licensed ISPs was finally released on 4 November (Tab G), at which time it was announced that service would begin in January 1999.<sup>19</sup> Forty companies made the cut, plus a license was also given

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<sup>&</sup>lt;sup>9</sup> "Saudi Arabia: Internet adviser appointed," Middle East Economic Digest 42 (12 June 1998), p. 24.

<sup>&</sup>lt;sup>10</sup> N.J., "Internet In Saudi Arabia," *ArabiaTech*, 9 September 1998, <a href="http://www.arabia.com/content/tech/9\_98/SaudiCover.9.9.98.shtml">http://www.arabia.com/content/tech/9\_98/SaudiCover.9.9.98.shtml</a> (5 October 1998).

<sup>&</sup>lt;sup>11</sup>"Saudi Arabia: Internet adviser appointed," op. cit.

<sup>&</sup>lt;sup>12</sup> Agence France-Presse, Saudis near end of seven-year wait to surf the Net (15 July 1998).

 $<sup>^{13}</sup>$  ibid.

<sup>&</sup>lt;sup>14</sup> "List of ISPs Qualified by King Abdulaziz City for Science & Technology," *ArabiaTech*, 10 August 1998, <a href="http://www.arabia.com/content/tech/8\_98/saudi\_10.8.98.shtml">http://www.arabia.com/content/tech/8\_98/saudi\_10.8.98.shtml</a> (5 October 1998).

<sup>&</sup>lt;sup>15</sup> Reuters, Saudis to get local Net access (11 August 1998); Edmund Blair (Reuters), Saudi surfers await cheap, accessible Internet (19 August 1998).

<sup>&</sup>lt;sup>16</sup> N.J., "Internet In Saudi Arabia," op. cit.

<sup>&</sup>lt;sup>17</sup> "KACST to licence internet providers by mid-October," *Middle East Economic Digest* 42 (18 September 1998), p. 16; "Saudi Arabia's new ISP's due to be revealed," *Middle East Communications* 13 (October 1998), p. 8.

<sup>18 &</sup>quot;Saudis to get local Net access," op. cit.

<sup>19 &</sup>quot;Internet Comes to Saudi," op. cit.

to the STC, giving the state's telecommunications monopoly not only the key role in interconnection but a chance to compete for end-users as well. Licensed ISPs were to demonstrate some capability within one month of receiving a license and open their networks to the public within six months of licensing, or their licenses would be revoked.

Leased lines will be provided by the STC for connections between KACST and the ISPs at speeds of 512 kbps, 1.024 Mbps, 1.536 Mbps (T-1), and 2.048 Mbps (E-1). Fees for these lines, estimated to run about SR 56,000 (US\$15,000) per month for 512 kbps,<sup>20</sup> will be in addition to the KACST port fees, which are already exorbitant (Table 1).<sup>21</sup>

| Table 1. KACST Internet Port Fees |                  |                          |  |  |
|-----------------------------------|------------------|--------------------------|--|--|
| Speed                             | Installation Fee | Monthly Fee              |  |  |
| 512 kbps                          |                  | SR 112,000 (US\$29,862)  |  |  |
| 1.024 Mbps                        | SR 24,000        | SR 224,000 (US\$59,725)  |  |  |
| 1.536 Mbps                        | (US\$6,400)      | SR 336,000 (US\$89,588)  |  |  |
| 2.048 Mbps                        |                  | SR 448,000 (US\$119,450) |  |  |

The implications of having to compete with the public sector for Internet subscribers were not lost on the newly-licensed ISPs, especially since the STC and ISU had already fixed the fees that the ISPs would have to pay to the government agencies for their Internet links and telephone access lines and the ISU had also capped the fees that the ISPs could charge subscribers (Table 2). Additionally, since each ISP would only be allowed 130 modern connections,<sup>22</sup> the total number of subscribers that could be provided acceptable service by each ISP has been effectively capped, thereby severely limiting the revenue potential from dial-up subscribers.

| Table 2. Dial-up Subscriber Fees <sup>23</sup> |                   |             |        |             |  |
|--|-------------------|-------------|--------|-------------|--|
|  | Ma                | aximum      | M      | inimum      |  |
| Monthly fee                                    | SR 150            | (US\$40.00) | SR 100 | (US\$26.66) |  |
| Hourly fee, of which                           | SR 9              | (US\$2.40)  | SR 6   | (US\$1.60)  |  |
| ISP component                                  | SR 4.5            | (US\$1.20)  | SR 1.5 | (US\$0.40)  |  |
| STC component                                  | SR 4.5 (US\$1.20) |             |        |             |  |

Significant prohibitions apply to Internet service provision in Saudi Arabia. These include establishing an independent link to the Internet, accessing a foreign system on the Internet without permission and/or endangering the local network "by visiting insecure sites," and the conduct of "illegal operations." Illegal

<sup>22</sup> "Saudi Arabia: In Brief," *Middle East Economic Digest* 42 (25 December 1998), p. 25.

<sup>&</sup>lt;sup>20</sup> "Saudi Arabia Ready for the Internet: A Web of complications," *Mideast News*, 18 January 1999, <a href="http://www.mideastnews.com/saudinet.html">http://www.mideastnews.com/saudinet.html</a> (19 January 1999).

<sup>&</sup>lt;sup>21</sup> N.J., op. cit

<sup>&</sup>lt;sup>23</sup> Sources: "KACST sets price limits for internet providers," *Middle East Economic Digest* 42 (20 November 1998), p. 18; Reuters, *Saudi Sets Limits to Internet Provider Charges* (10 November 1998).

operations include (but are probably not limited to) vice and gambling, violation of copyrights or intellectual property laws, spreading rumors or communicating threats, sending encrypted messages without "permission from the pertinent authorities," and hacking. 24

**Network Developments** Since establishing the ISU last summer, KACST has been aggressively putting into place the physical plant required to ensure "foolproof" screening of Saudi subscribers from the Internet at large. Table 3 shows the growth in the number of active IP addresses in the address space assigned to the Kingdom. KACST has had a minimal presence on the Internet since 1994, being the .sa national top-level domain (TLD) manager. However, until late 1998, most Saudi hosts were associated with the KFSHRC. Today, the KACST and ISU IP addresses comprise more than 80 percent of Saudi connections.

| Table 3. Growth of the .sa TLD in active IP addresses <sup>25</sup> |                          |      |      |      |      |      |      |      |      |      |      |
|---|--------------------------|------|------|------|------|------|------|------|------|------|------|
| Date  | 1/94                     | 7/94 | 1/95 | 7/95 | 1/96 | 7/96 | 1/97 | 7/97 | 1/98 | 7/98 | 1/99 |
| Total   | 0                        | 1    | 2    | 18   | 27   | 275  | (0)  | 293  | (37) | (42) | 493  |
| KACST/ISU   | (not separately counted) |      |      |      | 401  |      |      |      |      |      |      |

Not all of the IP addresses counted for Table 3 represent host computers on the Internet; many are routers. While none of the canonical names correlated with IP addresses (only 143 have been identified) explicitly identify the associated machines as routers, the extensive pairing of gateway connections with organizational or ISP links (e.g., ksu.gw.isu.net.sa and saudi1-gw-ser8-0-1.isu.net.sa), with separate pairs for domestic and international connections, suggests that these IP addresses are assigned to router ports. Such explicit addressing of router ports is useful for implementing strict firewall regimes. We have tentatively identified 165 IP addresses as being assigned to routers. This is roughly consistent with the estimated requirement for two pairs of addresses (one each for domestic and international traffic) for each of the 40 commercial ISPs.

Little information is available about the equipment used to build out the commercial Internet infrastructure in the Kingdom. The ISU was reported to be relying heavily on Sun Microsystems for servers and Cisco Systems for routers. <sup>26</sup> Sun Microsystems is also providing Starfire servers, using a

<sup>&</sup>lt;sup>25</sup> Sources: 1991-1997: Network Wizards, "Host Distribution by Top-Level Domain Name," *Internet Domain Survey*, (month, year), <a href="http://nw.com/zone/summary-reports/report-yymm.doc">http://nw.com/zone/summary-reports/report-yymm.doc</a>; 1/98: Network Wizards, "Distribution by Top-Level Domain Name," Internet Domain Survey, January 1998, 6 February 1998, <a href="http://www.nw.com/zone/WWW/dist-byname.html">http://www.nw.com/zone/WWW/dist-byname.html</a>; 7/98: Network Wizards, "Distribution by Top-Level Domain Name," Internet Domain Survey, July 1998, 12 August 1998, <a href="http://www.nw.com/zone/WWW/dist-byname.html">http://www.nw.com/zone/WWW/dist-byname.html</a> (14 August 1998); 1/99: GITAG name and ping scans, January 1999. Numbers in parenthesis are obviously erroneous. In 1998, Network Wizards changed its methodology to function better in the new security environment, but the results have been inconsistent.

<sup>&</sup>lt;sup>26</sup> "KACST to licence internet providers by mid-October," op. cit.; repeated in Middle East Economic Digest articles on 6 and 20 November 1998.

Solaris (Sun-proprietary Unix variant) operating system, to Saudi Aramco as part of the oil company's "business systems integration program" to network 20,000 company users nationwide.<sup>27</sup>

Some Newbridge Networks Corporation routers are also in use. Six IP addresses associated with the name "newbr" are assigned to two Saudi organizations; two of these addresses (one for each organization) are identified as proxy test connections. (A total of 19 KACST/ISU and two commercial IP addresses have been associated with names including the "proxy" designation.)

Although the proxy system is under the purview of the ISU, some or all of the servers have been located at STC facilities, according to the company's Chairman. Collocation of the servers at STC switching centers facilitates connecting them directly to the country's asynchronous transfer mode (ATM) backbone.<sup>28</sup>

Saudi Internet addresses are clustered in four groups, two each for the KFSHRC and KACST/ISU and subordinate ISPs:

| ??195.128.0.0-195.128.16.255 | KFSH-1, 1 domain (kfshrc.edu.sa), 231 hosts  |
|------------------------------|--|
| ??199.75.86.0-199.75.95.255  | USUSP-MO-MD-US (US Universities/Saudi Project), 3 domains (kfshrc.edu.sa, imedlink.net, saudi.net), 63 hosts, some in the United States (imedlink.net and saudi.net) |
| ??198.77.88.0-198.77.103.255 | SAUDI-COL, 9 domains, 62 hosts, principally KACST, but including several universities and the Ministry of Higher Education   |
| ?212.26.0.0-212.26.127.255   | SA-KACST, at least 27 domains, 339 hosts, including ISU and those licensed ISPs that have registered address space   |

The first three blocks are managed by the Washington Coordination Center, a unit of IMED that has been responsible for the provision of networking services to the Kingdom via KFSHRC up until the present. The last block is managed directly by the KACST Network Information Center. All identified proxy and gateway/router addresses fall within this fourth block.

KACST had originally designated the four C-blocks 198.77.88-198.77.91 as its "private" network for connecting the buildings on its campus. A single C-block, 198.77.103, was to be the "public" network for ISP connections.<sup>29</sup> The establishment of a separate block for the ISU relieved KACST from reassigning some of its IP numbers to ISPs, although one company (Al-Qimam), several universities, and the Ministry of Higher Education maintain servers within two of KACST's blocks as well as in the ISU block.

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<sup>&</sup>lt;sup>27</sup> "Saudi Arabia: In Brief," Middle East Economic Digest 42 (25 September 1998), p. 29.

<sup>&</sup>lt;sup>28</sup> Abdelghani Khatib, "Privatisation in Saudi Arabia," *Middle East Communications* 13 (October 1998), p. 31.

<sup>&</sup>lt;sup>29</sup> Yusuf Mansuri, *IP Number allocation*, Final Draft, National Communication Networks (15 March 1997).

Walid Abal Khail, of the Riyadh Chamber of Commerce and Industry, estimated that 30,000 Saudis were using off-shore Internet accounts in mid-1998,<sup>30</sup> and that there were another 8,000 "local" users (i.e., people who log on to Saudi-based servers) at that time.<sup>31</sup> No current estimates of the number of users are available, but there most likely has been only a modest increase over the past year as a result of licensed ISP technical personnel working on their intranets. As noted earlier, the likely immediate demand is in excess of 100,000 users. There are no estimates of potential total demand. The high levels of potential academic and commercial users, coupled with PC penetration rate (>3 percent), suggest that the demand could exceed 500,000 subscribers, should the network be able to support such numbers. The current port allocations are such that fewer than 90,000 commercial subscribers could be provided adequate service unless the network is appreciably expanded.

*Dimensions* Figure 1 depicts and Table 4 summarizes the dimensions of Internet diffusion in Saudi Arabia. Despite the rapid and significant changes in many aspects of the Internet in the Kingdom over the past year, the only dimension that increased was *organizational infrastructure*, due to the licensing of commercial ISPs.

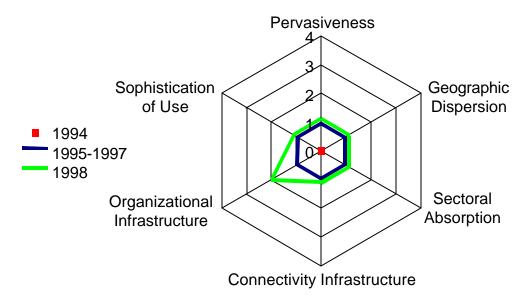


Figure 1. Internet Dimensions for Saudi Arabia, 1994-1998

*Pervasiveness* The past year has seen only a small growth in the number of Internet users in the Kingdom as networking professionals from newly-licensed ISPs started building and connecting their networks to the Internet. The establishment of the ISU and initial connection of several new ISPs has resulted in a large increase in the host count. Although the hosts per capita ratio is indicative of Level 2 *pervasiveness*, the low number of users and the fact that these hosts are generally accessible keeps the dimension at Level 1. Although estimates vary regarding the number of likely users who will log on

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<sup>&</sup>lt;sup>30</sup> Agence France-Presse, *Saudis near end...*, *op. cit.*; M.A.P., "Connecting with the Saudi's," ArabiaTech, 2 July 1998, <a href="http://arabia.com/content/tech/7\_98/saudi\_2.7.98.shtml">http://arabia.com/content/tech/7\_98/saudi\_2.7.98.shtml</a> (6 July 1998). The latter article notes that Bahrain alone hosts an estimated 15,000 Saudi Arabian dial-up accounts.

<sup>&</sup>lt;sup>31</sup> Human Rights Watch, Saudis surrender to cyber reality (19 July 1998).

during the first year of public access, if even the lowest estimate is met, there will be more than one user per thousand population (i.e., Level 2); at the high end there could be as many a seven per thousand.

| Dimension                     | Level          | Explanation  |
|-------------------------------|----------------|--|
| Pervasiveness                 | (1) Embryonic  | It continues to be the case that fewer than one in 1,000 Saudis has access to the Internet. Network expansion preparatory to public service offerings has resulted in the connection of about more than 200 hosts per 10 million people (Level 2), but these hosts are not yet generally accessible. (pending change)  |
| Geographic                    | (1) Single     | There are no Internet points-of-presence except in   |
| Dispersion                    | Location       | Riyadh, but connections to other main cities are being established. (pending change)   |
| Sectoral<br>Absorption        | (1) Rare       | Less than 10 percent of the country's public, health, or commercial sector organizations are connected to the Internet. Academic sector representation is moderate. (no change)  |
| Connectivity Infrastructure   | (1)            | The infrastructure is being expanded, but is still minimal. The domestic backbone and international links are of relatively low speed. Access will soon be more widely available. (on-going change)  |
| Organizational Infrastructure | (2) Controlled | Numerous ISPs have been approved for licenses,<br>although the market remains tightly controlled and barriers<br>to entry are very high. All connections are effected<br>through a government site. (+)  |
| Sophistication of Use         | (1) Minimal    | Lack of Internet availability continues to hamper the development of expertise and the assimilation of the Internet into routine use. However, the technical community has demonstrated considerable expertise and the commercial community has extensive off-shore experience. Once public access is available, the sophistication of use will quickly rise to conventional. (pending change) |

Table 4. Internet Dimensions for Saudi Arabia

*Geographic Dispersion* The only Internet points-of-presence (POP) in the country are still located only in Riyadh, although POPs are scheduled to be opened in Jeddah and the Eastern Province (principally in Dammam) during the first quarter of 1999. There is no dedicated Internet backbone, nor is one planned. Interconnections will be carried via the STC's new ATM network. Currently, the STC is estimated to have the switching and backbone capacity to handle only about 10 percent of the

anticipated first-year Internet traffic.<sup>32</sup> Thus, the number of dial-up lines allocated to each ISP will be limited until such time as the STC's infrastructure has sufficiently matured, perhaps some time during this year. It is intended by the Saudi government that every province have local Internet service available. No concrete plans for making this happen have been announced, however, nor does there appear to be a definite time frame.

Sectoral Absorption There has been very little change to sectoral absorption. Universities have seen the number and quality of their connections increase, but no new educational institutions have been brought on-line. Whether primary or secondary schools will get Internet connections has no been determined. The Ministry of Higher (i.e., tertiary and professional) Education is on-line, but not the Ministry of Education. Several Saudi businesses have been recently connected to the Internet, and more will likely follow this year. These are principally companies bringing their existing Web presence "home" from off-shore servers. Ultimately, it is unlikely that more than 10 percent of the Saudi commercial establishment will be on-line. The KFSHRC continues to serve the needs of the health community, at least in principle. The number of health facilities with Internet access is not known. Government presence on the Internet, with the exception of KACST and the ISU, is minimal.

Connectivity Infrastructure The domestic infrastructure and commercial international connections for Internet service rely entirely upon the telecommunications network of the STC. Dial-up and leased-line subscribers will connect to their ISPs via STC lines. The ISPs will in turn be connected to the ISU via STC circuits, and the ISU is itself connected to the Internet via an STC-operated satellite link. Despite huge investments over recent years, the network cannot meet current demands for conventional telephone services. As noted in *Geographic Dispersion*, the number of subscriber connections allowed will be limited at least over the near term (1999) by the STC due to a lack of supporting infrastructure. Subscriber access, when it becomes available, will be via dial-up lines and modems or leased lines at 64 Kbps. The access speeds available on dial-up lines will be limited by the ISPs' equipment, which will probably permit access at speeds up to 56 Kbps, and local loop line quality, which varies greatly throughout the Kingdom and even within individual cities.

Organizational Infrastructure This dimension has been raised to Level 2 by the decision of the Saudi government to issue ISP licenses to 40 companies in addition to the state's monopoly telecommunications carrier. However, this was done not to introduce competition but rather as a convenience to the government, which is aware of the STC's inability to meet the market demand for Internet services. Price competition will be allowed within a narrow window of minimum and maximum prices fixed by the state, which also fixes the fees charged to the ISPs for their connections and fees that subscribers pay for their basic telephone service. The high costs levied on the ISPs, effective capping of their revenue streams through price and access line limits, and other measures such as the large bank guarantees required in anticipation of future fines, combine to keep the barriers to entry very high. Above and beyond the economic and bureaucratic barriers, the state is the final arbiter of who may have a license.

<sup>&</sup>lt;sup>32</sup> "Saudi Arabia Ready...," op. cit.

Sophistication of Use Although those who use the Internet routinely, especially Saudi networking technicians, have shown significant skills with the technologies involved, Internet access is still too rare for the *sophistication of use* to merit a "conventional" rating. The ISU's methodology for setting up a foolproof filtering and firewall system appears especially ingenious; whether it is indeed foolproof remains to be seen. Once the Internet is more widely available in the Kingdom, we expect the level of sophistication to increase to Level 2 rather quickly. Especially in the commercial sector, technical personnel have gained significant Internet-related experience through the development of IP-based intranets and the development and maintenance of off-shore Web sites. Over the next several years, however, it is most likely that the Internet will augment or replace existing processes (e.g., e-mail or online purchasing) rather than spawn wholly-new ways of working.

### Determinants of the Saudi Internet's Development

There have been few changes in the determinants of Saudi Internet development or their impact on that development. The government's desire and ability to strictly control such important aspects of Internet development as the licensing and operations of ISPs, the provision of links to both subscribers and the Internet, and communications content have resulted in not only the very late offering of public Internet access (relative even to elsewhere in the region, much less the world at large) but in a very constrained Internet environment. Barring any significant changes in this situation, and none are in prospect, the Internet will flourish, languish, or wither away at the government's wish and command. Table 5 recaps our earlier assessment<sup>33</sup> and notes recent changes (in red).

## **Problems and Prospects**

The perception that the Saudi government believes the Internet to be Pandora's mythical box made real is inescapable. The evils that could be unleashed by the Internet take the form of multiple types of information, especially political, religious, and sexual (i.e., pornographic). Muhammad Mas'ari, head of the London-based Saudi dissident group Council for the Defense of Legitimate Rights (CDLR), recently opined that the government is already too late. According to Mas'ari, "[t]he country is already awash with immoral material broadcast through satellite television, everybody's diversion in a country where public entertainment is almost non-existent." But the Internet is not television: access is more difficult, requiring expensive equipment and specialized knowledge (at least more than is required to operate a television set) on the one hand, but the information potentially available is more extreme in every "undesirable" category on the other.

There is a belief, perhaps only a hope, that this "box" can be partially opened, keeping the evil within and letting only that which is useful or at least benign into the Kingdom. To this end, an apparently huge sum of money and great effort over an extended period of time have been expended to build a foolproof system to insulate Saudis from the evils of the Internet (as defined by the government). It is questionable whether such extreme measures are necessary. Witness the apparently acceptable level of filtering and control accomplished by the much less complex proxy server system used in the neighboring United

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<sup>&</sup>lt;sup>33</sup> Goodman, et al., An Initial Inductive Assessment, Table 87, p. 215.

<sup>34 &</sup>quot;Saudi Arabia Ready...," op. cit.

Arab Emirates. But the Kingdom is not the UAE, having neither alcohol nor Asian all-girl rock-and-roll bands for diversion, nor even an uncensored issue of the International Herald Tribune, so they may indeed required a more foolproof system.

| Table 5. Determinant Impact                           |   |  |  |
|---|---|--|--|
| Determinant Quality                                   | Affected Dimension  |  |  |
| State monopolization of telecommunications            | Pervasiveness—Severely limited by inadequate infrastructure and high prices Organizational Infrastructure—Limited by explicit government policy and economic disincentives (i.e., state-fixed fees and prices)  |  |  |
| Intent to control information content and flow        | Pervasiveness—Potentially very restrictive policies may constrain Internet take-up Sectoral Absorption—Internet use by commercial sector and individuals may be constrained by restrictive information policies; government participation may be limited in order to limit potential for access to certain types of official information  |  |  |
| Internal security concerns                            | Pervasiveness, Sectoral Absorption—Explicit controls on Internet access and use to prevent use by dissidents may limit use by others  |  |  |
| Responsiveness to cultural and religious concerns     | Pervasiveness—Concerns to protect society from harmful influences may constrain Internet use to a point where it is not attractive to a meaningful segment of the potential user population Organizational Infrastructure—Desire to constrain Internet access will likely mandate the maintenance of a small provider community   |  |  |
| Technology investment policy                          | Connectivity Infrastructure—Acquisition of modern technology is a high priority that will speed the improvement and expansion of the supporting telecommunications infrastructure   |  |  |
| Geographic obstacles to development                   | Geographic Dispersion, Connectivity Infrastructure—Pockets of population widely separated by deserts makes establishment and maintenance of terrestrial links difficult.  |  |  |
| Basic but improving telecommunications infrastructure | Geographic Dispersion, Connectivity Infrastructure—Internet use is constrained by poor telephone lines in many areas. The nationwide digital backbone is inadequate to meet projected Internet requirements.  |  |  |
| Strong central authority                              | Pervasiveness, Sectoral Absorption—Internet users, private and commercial, connect at the sufferance of the government, which may choose to limit the number of accounts or preclude Internet use by specific individuals or whole classes of people.  Organizational Infrastructure—Maintenance of central control dictates the establishment and maintenance of limited access routes |  |  |
| Evolving stakeholder communities                      | Sophistication of Use—A younger generation, educated in the West and more technically literate, is coming to the helm at public and private organizations. These new leaders are better able to integrate advanced technology into their operations, and are more open to modifying their operations to take advantage of new technologies.   |  |  |

The Saudi government may be too clever by half, however, having potentially undermined its Draconian content controls with its own economic disincentives for ISP licensing and public access. The former, in the form of high fees charged the ISPs accompanied by price ceilings and limitations on subscriber connections (albeit for technical reasons), will keep the number of ISPs low and the number of potential Internet access points correspondingly low. Would-be subscribers will have a hard time getting an account, first of all, and a connection once signed up for service. Although the capped prices are low enough to cause would-be ISPs concerns about potential revenue generation, they are high enough to keep the hoi polloi off-line. Other constraints, such as the cost of PC ownership and attendant skill requirements, also affect the lower strata of society negatively, but high costs will also keep public access points such as Internet cafés from flourishing. Meanwhile, those who can afford access might do better to keep their accounts off-shore and unfiltered. For light users, the cost of an international call to a free (to international callers) Batelco Internet account is SR 3/minute (SR 180/hour). Use of a calling card could bring that cost down to SR 120/hour or less. The cost of using a domestic Saudi ISP to access the Internet for an hour per month, at the high end of the allowed pricing window where all Saudi ISPs are expected to operate, is nearly comparable: SR 159 for the access plus at least SR 3 for the telephone calls (the STC is increasing the cost of local telephone calls to SR 0.5/minute, an increase of 500 percent). Even Batelco's reportedly content-constrained Internet access is far more open than that to be available in the Kingdom. Of course, for heavy Web surfers, off-shore accounts are out of the question except for the very wealthy, presumably of less concern to the government than the population in general in any event.

One indicator of the extent to which the government is willing to go to control Internet access is the denial of an ISP license for *SilkiNet*, one of the many ventures of the King's nephew, Prince Al-Waleed bin Talal bin Abdulaziz. The absence of *SilkiNet*'s name from the list of licensees has gone largely unremarked, although the company's pre-qualification for a license resulted in a flurry of press releases. SilkiNet is a joint venture of the Prince's Silki-la-Silki company with Kuwait's ZakSat, a provider of hybrid satellite-terrestrial Internet service similar to Hughes Network Systems' DirectPC. Although ZakSat's services are available even in Iran (where Internet content is also constrained and satellite television dishes are illegal), the service was apparently considered insufficiently controllable by the Kingdom's authorities. (An interesting company to watch in this regard is Al-Alamiah, which was reported to be a partner in *SilkiNet* in 1997 but which has not been mentioned in subsequent press releases. Although Al-Alamiah did not appear on the list of companies pre-qualified for an ISP license, it received one nonetheless. Perhaps this will be used as *SilkiNet*'s back door into the Saudi ISP market. If so, given the high-level sponsorship of the company, it is likely that the government will conveniently fail to notice the company's use of satellite dishes so long as the company maintains an acceptable list of clients.)

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<sup>&</sup>lt;sup>35</sup> See, for example, M.A.P., "Silki La Silki Accredited ISP," *ArabiaTech*, 5August 1998, <a href="http://www.arabia.com/content/tech/8\_98/silki\_5.8.98.shtml">http://www.arabia.com/content/tech/8\_98/silki\_5.8.98.shtml</a> (24 August 1998). The last time that *SilkiNet* issued a flurry of press releases was in May 1997, immediately following the announcement that Internet access would be permitted in the Kingdom. The company claimed at that time, rather prematurely, to be the first ISP in the country. See Javid Hassan, "New joint venture to facilitate Internet access in Kingdom," *Arab News* (Riyadh) (15 May 1998).

<sup>&</sup>lt;sup>36</sup> Outbound communications from the subscriber to ZakSat are via landline, inbound Internet content is received via a high-speed satellite relay from a coordinating center in the Philippines.

The date for the opening of the Internet to the public has been pushed back numerous times since the first announcement in April 1997. The next several months will likely see additional delays as the complex system of gateways and firewalls is connected to the ISPs and dial-up lines are put in place. The most-recently announced date for public Internet access was 9 January 1999, one of the goals being to start service during the Muslim holy month of Ramadan, but that date turned out to be the date on which the ISU started enabling the connections to the ISPs, most of which are themselves not ready to offer service. The STC recently speculated that it would take until March to get the IP backbone circuits and local loop connections in place, and the current estimate is that the public will finally be able to log on in April 1999, two years to the month after the decision to allow such connections was made and about four years in all since the issue was first seriously discussed in the Kingdom. Slow by Western standards, absolutely glacial by the ever-shrinking time scales of information technology evolution, but on the whole not a bad performance by one of the world's most conservative and paternalistic governments. Once public access is available, the interplay between market demand and the inability of the ISPs to meet this demand due to the various limitations, both explicit and incidental (e.g., lack of local loop connections), should be interesting. Of most interest will be the reaction of the business community should the government's restrictions be seen to be hindering commerce, and the government's response to that reaction.

Tab E SAUDI GLOSSARY

CDLR Council for the Defense of Legitimate Rights—A dissident group, based in London,

opposed to the current government of Saudi Arabia <www.ummah.org.uk>

GTZ Gesellschaft für Technische Zusammenarbeit (Society for Technical Cooperation)

(Mannheim, Germany)—The consultant hired by KACST to help establish the ISU and

implement public subscription Internet services in Saudi Arabia.

IMED International Medical and Educational Data (Link)—An ISP in Bethesda, Maryland

ISU Internet Services Unit—The division of KACST that licenses ISPs and manages public

access to the Internet.

KACST King Abdulaziz City for Science and Technology (Riyadh)—KACST is the .sa national

TLD manager.

KFSHRC King Faisal Specialist Hospital and Research Center (Riyadh)

KSU King Saud University (Riyadh)
SR Saudi Riyal (US\$1 = SR3.75)

STC Saudi Telecommunications Company—The monopoly telecommunications services

provider in Saudi Arabia

TEP Telecommunications Expansion Project

### Tab F KEY SAUDI ORGANIZATIONS

Internet Services Unit

Abdullah Othman al-Musa

c/o King Abdulaziz City for Science and Technology

P.O. Box 6086

Riyadh 11442

URL: www.isu.net.sa

King Abdulaziz City for Science and Technology

Dr. Saleh Abdulrahman al-Athel, President

P.O. Box 6086

Riyadh 11442

Telephone: +966 1/488 3069 Facsimile: +966 1/488 3756 URL: www.kacst.edu.sa

King Fahd Specialist Hospital and Research Center

Badr Al-Saleh <badr@kfshrc.edu.sa>

P.O. Box 3354

Riyadh 11211

Telephone: +966 1/442 7815 URL: www.kfshrc.edu.sa

Ministry of Post, Telegraph, and Telephone

Dr. Ali Talal al-Johany, Minister

Sharia al-Maazer, Intercontinental Road

Riyadh 11112

Telephone: +966 1/463 7113 Facsimile: +966 1/403 2048

Saudi Network Information and Operations Center

Abdulaziz Hamad al-Zoman <zoman@kacst.edu.sa> or <ipreg@saudinic.net.sa>

c/o King Abdulaziz City for Science and Technology

P.O. Box 6086

Riyadh 11442

Telephone: +966 1/481 3208 Facsimile: +966 1/488 2959

Saudi Telecommunications Company

Engineer Abdelrahman al-Yami, CEO

Washington Coordinating Center (a.k.a. IMED Link)

Garry Pammer

<garry@imedlink.net> or <pammer@ususp.mo.md.us> or <pammer@saudi.net>

10401 Old Georgetown Road, Suite 408

Bethesda, Maryland 20814

Telephone: +1 301/897 0011 Facsimilie: +1 301/530 2728

### Tab G SAUDI ISPS

# August 1998: 71 companies pre-qualified for ISP licenses<sup>37</sup>

Abdulla Fu'ad Company

Abdul-Muhsen Hakkeer Trade and Industry Company

Advanced Systems Company

Al-Akmar Company for Communications

Al-Falak Electronic Devises and Equippments Company

Al-Jazeera Desert Trade Network (Sahara Network)<sup>38</sup>

Al-Jazeera Press, Media & Publishing Company

Al-Jeraisy Computer and Communication Services Company

Al-Masdar Saudi Systems Company

Al-Mawared Electronics Company

Al-Qasi International Contracting Company

Al-Rajihi Saudi Group

Al-Swaidi Trade and Contractions Company

Ammar Bakheet's Trading Establishment

Applied Computer Services Company

Arabian Advanced Systems Company (*Al-Naseej*)

**Atlas Communications Company** 

Atta-Allah System Company

Commercial Investment and Development Company

Computer Engineering and Technology Establishment.

Computer Networking Contracting Company

Computer Systems Company

Computers and Systems Engineering Company

Connecting Information Systems Company/Branch of the Saudi Road Painting Company

Dar El-Qemam for Communications Company

Dallah Media Production Company

Digital Computer Systems Company

Electrical and Electronics Contracting Company

Electronic International Communications Company

Electronic Inventions Company

Farid Muhammed Zeydan's Bureau for Engineering Consultations

Future Technologies Company

Gulf Computers and Electronic Equipments Company

Gulf Network Saudi Company

Gulf Stars Computer Systems Company

<sup>&</sup>lt;sup>37</sup> "List of ISPs Qualified...," op. cit.

<sup>&</sup>lt;sup>38</sup> M.A.P., "Sahara Network Qualified ISP," *ArabiaTech*, 2 August 1998, <a href="http://www.arabia.com/content/tech/8\_98/sahara\_2.8.98.shtml">http://www.arabia.com/content/tech/8\_98/sahara\_2.8.98.shtml</a> (5 October 1998).

Haseb Trading Company (Applied Computer Services Company)

High Technology And Computer Systems Company

Horizon Information Systems and Communications

**International Communication Company** 

The International Company for Advertisements and Publishing

**International Computers Company** 

**International Electronics Company** 

Jamal Al-Jasim Electronics Company

Jibal Advertisements and Publishing Company

Khaled Hasan Khattani and Partners Company

Khalil Ahmad Bin Laden Company

Modern Electronics Establishment

Muhamad Mansour Al-Rumeeh Trading Company

Muhammed Omar Esa'ee Electronics Company

Nader Holding Group Company

Nasir Sa'eed Al-Hajiri Computer Company

National Communication and Computer Group Company

The National Engineering Services and Marketing Company (NESMA)

National Information Systems Company

**Nour Trading Company** 

Saleh Al-Nehdi Trading Establishments Group

Samir Photo Equipments Company

Satta Trading Company

Saudi Advavced Technology Agency

Saudi Arabic Computer Systems Company

Saudi Business Machines

Saudi Detcon Company

Saudi Fal Company

Saudi Information Technology Company

Saudi Ojeh Company

Saudi Voice Communications and Information Company

Shahir Technology Company

Silki La Silki Company (SilkiNet—The local operator for Kuwait-based ZakSat)<sup>39</sup>

Tamas Technology Company

The National Engineering Services and Marketing Company (NESMA)

United Development Company

United Enterprise for Maintenance and Operation

# November 1998: 41 companies approved for ISP licenses<sup>40</sup>

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<sup>&</sup>lt;sup>39</sup> "Saudis near end of seven-year wait...," *op. cit.*; M.A.P., "Silki La Silki Accredited ISP," *ArabiaTech*, 5 August 1998, <a href="http://www.arabia.com/content/tech/8-98/silki-5.8.98.shtml">http://www.arabia.com/content/tech/8-98/silki-5.8.98.shtml</a> (5 October 1998).

<sup>40 &</sup>quot;Internet Comes to Saudi," op. cit.

Abdul-Muhsen Hakkeer Trade and Industry Company

Al-Alamiah Electronics\*

Al-Jazeera Desert Trade Network (Sahara Network)

Al-Jazeera Press, Media & Publishing Company

Al-Jeraisy Computer and Communication Services Company

Al-Qasi International Contracting Company

Al-Rajihi Saudi Group

Arabian Advanced Systems Company (*Al-Naseej*)

Arabian Circle Establishment\*

Arabian Computer Systems\*

Azieb Trading Company\*

Commercial Invesment and Development Company

Connecting Information Systems Company/Branch of the Saudi Road Painting Company

Dallah Media Production Company

Digital Computer Systems Company

Global Advertising Company\*

Gulf Network Saudi Company

Gulf Stars Computer Systems Company

Haseb Trading Company (Applied Computer Services Company)

Horizon Information Systems and Communications

Ibtikar Electronics Company\*

**International Computers Company** 

Jibal Advertisements and Publishing Company

Khalil Ahmad Bin Laden Company

Modern Electronics Establishment

Muhammed Omar Esa'ee Electronics Company

National Communication and Computer Group Company

The National Engineering Services and Marketing Company (NESMA)

National Information Systems Company

Nazir Holding Group\*

**Nour Trading Company** 

Samir Photo Equipments Company

Saudi Business Machines

Saudi Fal Company

Saudi Ojeh Company

Saudi Telecommunications Company (STC)\*

Saudi Voice Communications and Information Company

Shahir Technology Company

Tamas Technology Company

United Development Company

United Enterprise for Maintenance and Operation

| * Companies awarded licenses | that did not appear on | the list of pre-qualified | d companies. |  |
|------------------------------|------------------------|---------------------------|--------------|--|
|                              |                        |                           |              |  |
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|                              |                        |                           |              |  |
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|                              |                        |                           |              |  |

Tab H .SA ZONE DATA

| Domain          | Nameserver                | IP Address     |
|-----------------|---------------------------|----------------|
| com.sa          |                           |                |
| com.sa.         | nsl.isu.net.sa            | 212.26.18.3    |
| com.sa.         | ns1.kacst.edu.sa          | 198.77.88.3    |
| com.sa.         | ns.nixu.net               | 193.209.237.29 |
| com.sa.         | rip.psg.com               | 147.28.0.39    |
| com.sa.         | munnari.oz.au             | 128.250.1.21   |
| com.sa.         | ns.eu.net                 | 192.16.202.11  |
| aag             | ns.nameservers.net        | 207.158.192.40 |
| aag             | ns2.nameservers.net       | 209.41.31.13   |
| aag             | ns3.nameservers.net       | 209.41.31.14   |
| adtc            | ns.nameservers.net        | 207.158.192.40 |
| adtc            | ns2.nameservers.net       | 209.41.31.13   |
| adtc            | ns3.nameservers.net       | 209.41.31.14   |
| aec             | ns1.interliant.com        | 198.64.193.25  |
| aec             | ns2.interliant.com        | 198.64.193.60  |
| aha             | dnsl.american-data.net    | 204.69.248.194 |
| aha             | dns2.american-data.net    | 198.85.227.254 |
| aject           | dnsl.american-data.net    | 204.69.248.194 |
| aject           | dns2.american-data.net    | 198.85.227.254 |
| akte            | ns.maindomain.com         | 209.41.115.6   |
| akte            | ns2.maindomain.com        | 209.41.115.7   |
| alahli          | asterix.instantaccess.com | 195.92.136.3   |
| alahli          | ns1.instantaccess.com     | 195.92.136.2   |
| al-ajlan        | ns0.netbenefit.co.uk      | 212.53.64.30   |
| al-ajlan        | ns1.netbenefit.co.uk      | 212.53.77.30   |
| albassam        | ns0.netbenefit.co.uk      | 212.53.64.30   |
| albassam        | nsl.netbenefit.co.uk      | 212.53.77.30   |
| al-bassam       | ns1.paonline.com          | 198.69.90.250  |
| al-bassam       | ns2.paonline.com          | 198.69.90.11   |
| al-bassam-shawl | ns0.netbenefit.co.uk      | 212.53.64.30   |
| al-bassam-shawl | nsl.netbenefit.co.uk      | 212.53.77.30   |
| al-emar         | dnsl.american-data.net    | 204.69.248.194 |
| al-emar         | dns2.american-data.net    | 198.85.227.254 |
| alestudio       | ns.nameservers.net        | 207.158.192.40 |
| alestudio       | ns2.nameservers.net       | 209.41.31.13   |
| alestudio       | ns3.nameservers.net       | 209.41.31.14   |
| al-falak        | noc.cerf.net              | 192.153.156.22 |
| al-falak        | ns1.oneglobe.net          | 199.107.176.2  |
| alfayez         | dns1.american-data.net    | 204.69.248.194 |
| alfayez         | dns2.american-data.net    | 198.85.227.254 |
| alfozan         | dns1.american-data.net    | 204.69.248.194 |
| alfozan         | dns2.american-data.net    | 198.85.227.254 |
| algosaibi       | dns1.american-data.net    | 204.69.248.194 |
| algosaibi       | dns2.american-data.net    | 198.85.227.254 |
| aliaf           | ns1.allinfosys.com        | 207.55.155.2   |
| aliaf           | ns2.allinfosys.com        | 209.44.59.2    |
| alirezadelta    | ns.nameservers.net        | 207.158.192.40 |
| alirezadelta    | ns2.nameservers.net       | 209.41.31.13   |
| alirezadelta    | ns3.nameservers.net       | 209.41.31.14   |
|                 |                           |                |

| alirezaholidays                     | ns.nameservers.net          | 207.158.192.40  |
|-------------------------------------|-----------------------------|-----------------|
| alirezaholidays                     | ns2.nameservers.net         | 209.41.31.13    |
| alirezaholidays                     | ns3.nameservers.net         | 209.41.31.14    |
| alirezaship                         | ns.nameservers.net          | 207.158.192.40  |
| alirezaship                         | ns2.nameservers.net         | 209.41.31.13    |
| alirezaship                         | ns3.nameservers.net         | 209.41.31.14    |
| alirezatravel                       | ns.nameservers.net          | 207.158.192.40  |
| alirezatravel                       | ns2.nameservers.net         | 209.41.31.13    |
| alirezatravel                       | ns3.nameservers.net         | 209.41.31.14    |
| al-khaleej                          | noc.cerf.net                | 192.153.156.22  |
| al-khaleej                          | ns1.oneglobe.net            | 199.107.176.2   |
| almanar                             | ns.nameservers.net          | 207.158.192.40  |
| almanar                             | ns2.nameservers.net         | 209.41.31.13    |
| almanar                             | ns3.nameservers.net         | 209.41.31.14    |
| alnaghi                             | ns.nameservers.net          | 207.158.192.40  |
| alnaghi                             | ns2.nameservers.net         | 207.138.192.40  |
|                                     |                             | 209.41.31.13    |
| alnaghi                             | ns3.nameservers.net         | 209.41.31.14    |
| alnaghi-brothers                    | ns.nameservers.net          |                 |
| alnaghi-brothers                    | ns2.nameservers.net         | 209.41.31.13    |
| alnaghi-international               | ns.nameservers.net          | 207.158.192.40  |
| alnaghi-international               | ns2.nameservers.net         | 209.41.31.13    |
| alnaghi-international               | ns3.nameservers.net         | 209.41.31.14    |
| alnaghi-jewellery                   | ns.nameservers.net          | 207.158.192.40  |
| alnaghi-jewellery                   | ns2.nameservers.net         | 209.41.31.13    |
| alnaghi-jewellery                   | ns3.nameservers.net         | 209.41.31.14    |
| alowaidah                           | ns1.allinfosys.com          | 207.55.155.2    |
| alowaidah                           | ns2.allinfosys.com          | 209.44.59.2     |
| alqimam                             | ns1.kacst.edu.sa            | 198.77.88.3     |
| alqimam                             | ns2.kacst.edu.sa            | 198.77.88.2     |
| alrabie                             | dns1.american-data.net      | 204.69.248.194  |
| alrabie                             | dns2.american-data.net      | 198.85.227.254  |
| alrajhi                             | mail.shabakah.com           | 193.188.109.67  |
| alrajhi                             | www.shabakah.com            | 193.188.109.6   |
| al-rajhi                            | mail.shabakah.com           | 193.188.109.67  |
| al-rajhi                            | www.shabakah.com            | 193.188.109.6   |
| alrajhi-house                       | faith.mynet.net             | 208.162.200.4   |
| alrajhi-house                       | <pre>jaguar.mynet.net</pre> | 208.162.200.3   |
| alrajhi-house                       | ns4.cw.net                  | 204.70.49.234   |
| alsaadeh                            | dnsl.american-data.net      | 204.69.248.194  |
| alsaadeh                            | dns2.american-data.net      | 198.85.227.254  |
| alsalamaircraft                     | nsl.instantaccess.com       | 195.92.136.2    |
| alsalamaircraft                     | ns3.instantaccess.com       | 194.130.168.245 |
| alsulaiman                          | nsl.gpg.com                 | 205.158.6.22    |
| alsulaiman                          | ns1.simorgh.com             | 209.1.163.10    |
| alswailem                           | ns1.allinfosys.com          | 207.55.155.2    |
| alswailem                           | ns2.allinfosys.com          | 209.44.59.2     |
| alwaseet                            | newdns.supernews.com        | 207.126.101.102 |
| alwaseet                            | newdns2.supernews.com       | 207.126.101.83  |
| alyaf                               | ns1.allinfosys.com          | 207.55.155.2    |
| alyaf                               | ns2.allinfosys.com          | 209.44.59.2     |
| alzahrani                           | ns.nameservers.net          | 207.158.192.40  |
| alzahrani                           | ns2.nameservers.net         | 209.41.31.13    |
| alzahrani                           | ns3.nameservers.net         | 209.41.31.14    |
| a a - a - a - a - a - a - a - a - a | 1.55.11a                    |                 |

| anb         dns3.earthlink.net         207.27,120.13           apex         ns.nameservers.net         207.158.192.40           apex         ns2.nameservers.net         209.41.31.13           apex         ns3.nameservers.net         209.41.31.14           aquatek         dns1.american-data.net         198.85.227.254           arabicmagazine         ns.web2010.com         209.196.60.253           aramco         nis.ans.net         147.225.1.2           aramco         ns.ans.net         192.103.63.100           artisana         faith.mynet.net         208.162.200.4           artisana         faith.mynet.net         208.162.200.4           astisana         ns1.allinfosys.com         207.55.155.2           ase         ns2.allinfosys.com         207.55.155.2           ase         ns1.allinfosys.com         209.44.59.2           asg-group         dn1.4biz.net         208.214.24.10           basamh         faith.mynet.net         208.162.200.3           braamh         faith.mynet.net         208.162.200.3           bramj         ns.web2010.com         209.235.31.149           bramj         ns.2.web2010.com         209.196.60.253           ccc         ns.nameservers.net         207.158.10.13     <   | anb           | dns2.earthlink.net        | 207.217.77.12  |
|--|---------------|---------------------------|----------------|
| apex         ns.nameservers.net         207.158.192.40           apex         ns2.nameservers.net         209.41.31.13           apex         ns3.nameservers.net         209.41.31.14           aquatek         dns2.american-data.net         204.69.248.194           aquatek         dns2.american-data.net         198.85.227.254           arabicmagazine         ns.web2010.com         209.196.60.253           aramco         ns.ans.net         192.103.63.100           artisana         faith.mynet.net         208.162.200.4           artisana         ns4.cw.net         204.70.49.234           ase         ns1.allinfosys.com         207.55.155.2           asg-group         dn1.4biz.net         208.214.24.5           asg-group         dn1.4biz.net         208.162.200.4           basamh         faith.mynet.net         208.162.200.3           brnamj         ns.web2010.com         209.235.31.114           bramaj         ns.web2010.com         209.235.200.3           brnamj         ns.web2010.com         209.235.200.3           brnamj         ns.web2010.com         209.235.31.149           ccc         ns.nameservers.net         207.158.192.40           ccc         ns.nameservers.net         207.158.192.40 <td></td> <td></td> <td></td>  |               |                           |                |
| apex         ns2.nameservers.net         209.41.31.13           apex         ns3.nameservers.net         209.41.31.14           aquatek         dns2.american-data.net         198.85.227.254           arabicmagazine         ns.web2010.com         209.235.31.149           arabicmagazine         ns2.web2010.com         209.196.60.253           aramco         nis.ans.net         147.225.1.2           aramco         ns.ans.net         192.103.63.100           artisana         faith.mynet.net         208.162.200.4           ase         ns1.allinfosys.com         207.55.155.2           ase         ns2.allinfosys.com         209.244.59.2           asg-group         dn1.4biz.net         208.214.24.5           asg-group         dn2.4biz.net         208.214.24.5           asg-group         dn2.4biz.net         208.162.200.4           basamh         faith.mynet.net         208.162.200.3           brnamj         ns.web2010.com         209.235.31.149           coc         ns.nameservers.net         207.158.192.40           coc         ns.nameservers.net         207.158.192.40           coc         ns.nameservers.net         207.158.192.40           coc         ns.nameservers.net         207.158.192.40   |               |                           |                |
| apex         ns3.nameservers.net         209.41.31.14           aquatek         dns1.american-data.net         204.69.248.194           aquatek         dns2.american-data.net         198.85.227.254           arabicmagazine         ns.web2010.com         209.235.31.149           aramco         nis.ans.net         192.103.63.100           aramco         ns.ans.net         192.103.63.100           artisana         faith.mynet.net         208.162.200.4           artisana         ns4.cw.net         204.70.49.234           ase         ns1.allinfosys.com         207.55.155.2           asg-group         dn1.4biz.net         208.214.24.5           asg-group         dn2.4biz.net         208.214.24.5           asg-group         dn2.4biz.net         208.162.200.4           basamh         faith.mynet.net         208.162.200.4           basamh         jaguar.mynet.net         208.162.200.4           basamh         jaguar.mynet.net         208.162.200.4           bramaj         ns.ameservers.net         207.158.192.40           ccc         ns.nameservers.net         207.158.192.6           ccc         ns.nameservers.net         207.158.192.6           ccc         ns.nameservers.net         209.41.31.14   | <del>-</del>  |                           |                |
| aquatek         dns1.american-data.net         204.69.248.194           aquatek         dns2.american-data.net         198.85.227.253           arabicmagazine         ns.web2010.com         209.235.31.149           arabicimagazine         ns2.web2010.com         209.196.60.253           aramco         ns.ans.net         147.225.1.2           aramco         ns.ans.net         192.103.63.100           artisana         faith.mynet.net         208.162.200.4           ase         ns1.allinfosys.com         207.55.155.2           ase         ns2.allinfosys.com         209.44.59.2           asg-group         dn1.4biz.net         208.214.24.5           asg-group         dn2.4biz.net         208.214.24.10           basamh         faith.mynet.net         208.162.200.3           brnamj         ns.web2010.com         209.235.31.149           brnamj         ns.web2010.com         209.235.31.149           brnamj         ns.meservers.net         207.158.192.40           cc         ns.nameservers.net         207.158.192.40           cc         ns.ameservers.net         209.41.31.14           computerworks         dns1.american-data.net         204.69.248.194           computerworks         ns.siteprotect.com  | <del>-</del>  |                           |                |
| aquatek         dns2.american-data.net         198.85.227.254           arabicmagazine         ns.web2010.com         209.235.31.149           aramco         nis.ans.net         147.225.1.2           aramco         ns.ans.net         192.103.63.100           artisana         faith.mynet.net         208.162.200.4           artisana         ns4.cw.net         204.70.49.234           ase         ns1.allinfosys.com         207.55.155.2           asg-group         dn1.4biz.net         208.214.24.5           asg-group         dn2.4biz.net         208.214.24.10           basamh         faith.mynet.net         208.162.200.4           basamh         faith.mynet.net         208.162.200.4           basamh         jaguar.mynet.net         208.162.200.4           basamh         jaguar.mynet.net         208.162.200.3           brnamj         ns.web2010.com         209.235.31.149           brnamj         ns.web2010.com         209.235.31.149           brnamj         ns.web2010.com         209.196.60.253           ccc         ns.nameservers.net         207.158.192.40           ccc         ns.ameservers.net         209.41.31.13           ccc         ns.nameservers.net         209.41.31.14 <tr< td=""><td><u>-</u></td><td></td><td></td></tr<>  | <u>-</u>      |                           |                |
| arabicmagazine ns.web2010.com 209.235.31.149 arabicmagazine ns2.web2010.com 209.196.60.253 aramco nis.ans.net 147.225.1.2 aramco ns.ans.net 129.103.63.100 artisana ns4.cw.net 208.162.200.4 artisana ns4.cw.net 204.70.49.234 ase ns1.allinfosys.com 207.55.155.2 ase ns2.allinfosys.com 207.55.155.2 ase ns2.allinfosys.com 209.44.59.2 asg-group dn1.4biz.net 208.142.44.5 asg-group dn2.4biz.net 208.214.24.10 basamh faith.mynet.net 208.162.200.3 brnamj ns.web2010.com 209.235.31.149 brnamj ns2.web2010.com 209.235.31.149 brnamj ns2.web2010.com 209.235.31.149 brnamj ns2.web2010.com 209.235.31.49 ccc ns3.nameservers.net 207.158.192.40 ccc ns3.nameservers.net 209.41.31.13 ccc ns3.nameservers.net 209.41.31.13 ccc ns3.nameservers.net 209.41.31.14 compulink dns1.american-data.net 204.69.248.194 computerworks ns.siteprotect.com 209.224.144.2 desmal dns2.american-data.net 204.69.248.194 computerworks ns.siteprotect.com 209.224.144.2 desmal dns2.american-data.net 204.69.248.194 dewe dns2.american-data.net 204.69.248.194 dewe dns2.american-data.net 204.69.248.194 dewe dns2.american-data.net 204.69.248.194 dewe dns2.american-data.net 204.69.248.194 dn   | <del>-</del>  |                           |                |
| arabicmagazine         ns2.web2010.com         209.196.60.253           aramco         nis.ans.net         147.225.1.2           aramco         ns.ans.net         192.103.63.100           artisana         faith.mynet.net         208.162.200.4           artisana         ns4.cw.net         204.70.49.234           ase         ns1.allinfosys.com         207.55.155.2           ase         ns2.allinfosys.com         209.44.59.2           asg-group         dn1.4biz.net         208.214.24.10           basamh         faith.mynet.net         208.162.200.4           basamh         jaguar.mynet.net         208.162.200.3           brnamj         ns.veb2010.com         209.235.31.149           brnamj         ns2.web2010.com         209.196.60.253           ccc         ns.nameservers.net         207.158.192.40           ccc         ns.nameservers.net         207.158.192.40           ccc         ns.nameservers.net         209.113.1.1           ccc         ns.nameservers.net         209.196.60.253           ccc         ns.nameservers.net         209.41.31.13           cc         ns.nameservers.net         209.113.1.31           ccc         ns.nameservers.net         209.41.31.14   |               |                           |                |
| aramco         nis.ans.net         147.225.1.2           aramco         ns.ans.net         192.103.63.100           artisana         faith.mynet.net         208.162.200.4           artisana         ns4.cw.net         204.70.49.234           ase         ns2.allinfosys.com         207.55.155.2           asg-group         dn1.4biz.net         208.214.24.15           asg-group         dn2.4biz.net         208.214.24.10           basamh         faith.mynet.net         208.162.200.3           braamh         jaguar.mynet.net         208.162.200.3           brnamj         ns.web2010.com         209.235.31.149           brnamj         ns.eweb2010.com         209.235.31.149           brnamj         ns.nameservers.net         207.158.192.40           cc         ns.nameservers.net         207.158.192.40           cc         ns.nameservers.net         209.41.31.13           ccc         ns.nameservers.net         209.41.31.13           ccc         ns.nameservers.net         209.41.31.14           computerworks         ns.siteprotect.com         209.44.81.94           computerworks         ns.siteprotect.com         209.104.69.248.194           desmal         dns1.american-data.net         204.69.248.194   |               |                           |                |
| aramco         ns.ans.net         192.103.63.100           artisana         faith.mynet.net         208.162.200.4           artisana         ns4.cw.net         204.70.49.234           ase         ns1.allinfosys.com         207.55.155.2           ase         ns2.allinfosys.com         209.44.59.2           asg-group         dn1.4biz.net         208.214.24.10           basamh         faith.mynet.net         208.162.200.3           basamh         jayuar.mynet.net         208.162.200.3           brnamj         ns.web2010.com         209.235.31.149           brnamj         ns2.web2010.com         209.295.31.149           brnamj         ns2.nameservers.net         207.158.192.40           ccc         ns.anmeservers.net         209.41.31.13           ccc         ns2.nameservers.net         209.41.31.14           compulink         dns2.american-data.net         209.41.31.14           compulink         dns2.american-data.net         209.41.31.13           computerworks         ns.siteprotect.com         209.100.98           computerworks         ns.2.siteprotect.com         209.200.94           computerworks         ns.2.siteprotect.com         209.24.144.2           desmal         dns1.american-data.net   | =             |                           |                |
| artisana n84.cw.net 204.70.49.234 artisana n84.cw.net 204.70.49.234 ase ns1.allinfosys.com 207.55.155.2 ase ns2.allinfosys.com 209.44.59.2 asg-group dn1.4biz.net 208.214.24.5 asg-group dn2.4biz.net 208.214.24.10 basamh faith.mynet.net 208.162.200.4 basamh faith.mynet.net 208.162.200.4 basamh jaguar.mynet.net 208.162.200.3 brnamj ns.web2010.com 209.196.60.253 ccc ns.nameservers.net 207.158.192.40 ccc ns2.nameservers.net 207.158.192.40 ccc ns2.nameservers.net 209.41.31.13 ccc ns3.nameservers.net 209.41.31.14 compulink dns1.american-data.net 204.69.248.194 compulink dns2.american-data.net 204.69.248.194 computerworks ns.siteprotect.com 209.100.98.10 computerworks ns.siteprotect.com 209.224.144.2 desmal dns1.american-data.net 204.69.248.194 desmal dns2.american-data.net 204.69.248.194 capb david.siemens.com.sg 203.127.206.11 eajb david.siemens.de 192.51.7.1 eajb ns.sbs.de 192.51.7.1 eajb ns.sbs.de 192.51.7.1 eajb ns.sbs.de 194.112.84.17 elkhereiji faith.mynet.net 208.162.200.3 energico ns0.ns0.com 209.197.64.1 energico ns0.ns0.com 209.68.1.187 ericsson y11e.numera.se 195.100.61.2 ewe dns2.american-data.net 204.69.248.194 ewe dns2.american-data.   |               |                           |                |
| artisana ns4.cw.net 204.70.49.234 ase ns1.allinfosys.com 207.55.155.2 ase ns2.allinfosys.com 209.44.59.2 asg-group dn1.4biz.net 208.214.24.5 asg-group dn2.4biz.net 208.214.24.5 asg-group dn2.4biz.net 208.214.24.10 basamh faith.mynet.net 208.162.200.4 basamh jaguar.mynet.net 208.162.200.3 brnamj ns.web2010.com 209.235.31.149 brnamj ns2.web2010.com 209.235.31.149 brnamj ns2.web2010.com 209.196.60.253 ccc ns.nameservers.net 207.158.192.40 ccc ns2.nameservers.net 209.41.31.13 ccc ns3.nameservers.net 209.41.31.13 ccc ns3.nameservers.net 209.41.31.14 dompulink dns2.american-data.net 204.69.248.194 compulink dns2.american-data.net 198.85.227.254 computerworks ns.siteprotect.com 209.100.98.10 computerworks ns2.siteprotect.com 209.224.144.2 desmal dns2.american-data.net 204.69.248.194 desmal dns2.american-data.net 198.85.227.254 eae gold.eae.com.sa 198.77.102.185 eajb david.siemens.de 192.351.77.1 eajb ns.sbs.de 194.112.84.17 eajb ns.sbs.de 194.112.84.17 elkhereiji jaguar.mynet.net 208.162.200.4 elkhereiji jaguar.mynet.net 208.162.200.4 elkhereiji jaguar.mynet.net 208.162.200.3 energico ns89.pair.com 209.197.64.1 energico ns89.pair.com 209.68.1.187 ericsson dns.primaerdata.net 204.69.248.194 ewe dns2.american-data.net 204.69.248.194 gac dns1.american-data.net 204.69.248.194 gac dns1.american-data.net 204.69.248.194 gac dns2.american-data.net 204.69.   |               |                           |                |
| ase         ns1.allinfosys.com         207.55.155.2           ase         ns2.allinfosys.com         209.44.59.2           asg-group         dn1.4biz.net         208.214.24.5           asg-group         dn2.4biz.net         208.214.24.10           basamh         faith.mynet.net         208.162.200.4           basamh         jaguar.mynet.net         208.162.200.3           brnamj         ns.web2010.com         209.235.31.149           brnamj         ns2.web2010.com         209.235.31.149           brnamj         ns2.meservers.net         207.158.192.40           ccc         ns2.nameservers.net         207.158.192.40           ccc         ns2.nameservers.net         209.41.31.13           ccc         ns3.nameservers.net         209.41.31.14           compulink         dns1.american-data.net         204.69.248.194           computerworks         ns.siteprotect.com         209.100.98.10           computerworks         ns.siteprotect.com         209.100.98.10           computerworks         ns.siteprotect.com         209.224.144.2           desmal         dns2.american-data.net         198.85.227.254           eae         gold.eae.com.sa         198.77.102.185           eajb         david.siemens.com.sg  |               |                           |                |
| ase         ns2.allinfosys.com         209.44.59.2           asg-group         dn1.4biz.net         208.214.24.10           basamh         faith.mynet.net         208.162.200.4           basamh         jaguar.mynet.net         208.162.200.3           brnamj         ns.web2010.com         209.235.31.149           brnamj         ns2.web2010.com         209.196.60.253           ccc         ns.nameservers.net         207.158.192.40           ccc         ns2.nameservers.net         207.158.192.40           ccc         ns2.nameservers.net         209.41.31.13           compulink         dns1.american-data.net         209.41.31.14           compulink         dns1.american-data.net         198.85.227.254           computerworks         ns.siteprotect.com         209.100.98.10           computerworks         ns.siteprotect.com         209.100.98.10           desmal         dns1.american-data.net         198.85.227.254           desmal         dns2.american-data.net         198.85.227.254           deae         gold.eae.com.sa         198.77.102.185           eajb         david.siemens.com.sg         203.127.206.11           eajb         david.siemens.de         192.35.17.1           eajb         ns.bramein   |               |                           |                |
| asg-group         dn1.4biz.net         208.214.24.5           asg-group         dn2.4biz.net         208.162.200.4           basamh         faith.mynet.net         208.162.200.3           bramh         jaguar.mynet.net         208.162.200.3           brnamj         ns.web2010.com         209.235.31.149           brnamj         ns2.web2010.com         209.196.60.253           ccc         ns.nameservers.net         207.158.192.40           ccc         ns2.nameservers.net         209.41.31.13           ccc         ns3.nameservers.net         209.41.31.13           compulink         dns1.american-data.net         209.44.31.14           compulink         dns2.american-data.net         198.85.227.254           computerworks         ns.siteprotect.com         209.100.98.10           computerworks         ns.siteprotect.com         209.100.98.10           desmal         dns1.american-data.net         204.69.248.194           desmal         dns2.american-data.net         198.85.227.254           eae         gold.eae.com.sa         198.77.102.185           eajb         david.siemens.com.sg         203.127.206.11           eajb         david.siemens.de         192.35.17.1           eajb         ns.sb.de  |               |                           |                |
| asg-group         dn2.4biz.net         208.214.24.10           basamh         faith.mynet.net         208.162.200.4           basamh         jaguar.mynet.net         208.162.200.3           brnamj         ns.web2010.com         209.235.31.149           brnamj         ns2.web2010.com         209.196.60.253           ccc         ns.nameservers.net         207.158.192.40           ccc         ns2.nameservers.net         209.41.31.13           ccc         ns3.nameservers.net         209.41.31.14           compulink         dns1.american-data.net         204.69.248.194           computerworks         ns.siteprotect.com         209.100.98.10           computerworks         ns.siteprotect.com         209.100.98.10           computerworks         ns2.siteprotect.com         209.224.144.2           desmal         dns1.american-data.net         204.69.248.194           desmal         dns2.american-data.net         198.85.227.254           eae         gold.eae.com.sa         198.77.102.185           eajb         david.siemens.com.sg         203.127.206.11           eajb         david.siemens.de         192.35.17.1           elkhereiji         faith.mynet.net         208.162.200.4           elkhereiji         jagua   |               |                           |                |
| basamh         faith.mynet.net         208.162.200.4           basamh         jaguar.mynet.net         208.162.200.3           brnamj         ns.web2010.com         209.235.31.149           brnamj         ns2.web2010.com         209.196.60.253           ccc         ns.nameservers.net         207.158.192.40           ccc         ns2.nameservers.net         209.41.31.13           ccc         ns3.nameservers.net         209.41.31.14           compulink         dns1.american-data.net         204.69.248.194           compulink         dns2.american-data.net         198.85.227.254           computerworks         ns.siteprotect.com         209.100.98.10           computerworks         ns.siteprotect.com         209.122.144.20  |               |                           |                |
| basamh         jaguar.mynet.net         208.162.200.3           brnamj         ns.web2010.com         209.235.31.149           brnamj         ns2.web2010.com         209.196.60.253           ccc         ns.nameservers.net         207.158.192.40           ccc         ns2.nameservers.net         209.41.31.13           ccc         ns3.nameservers.net         209.41.31.14           compulink         dns1.american-data.net         204.69.248.194           computerworks         ns.siteprotect.com         209.100.98.10           computerworks         ns.siteprotect.com         209.100.98.10           computerworks         ns.siteprotect.com         209.224.144.2           desmal         dns1.american-data.net         204.69.248.194           desmal         dns1.american-data.net         198.85.227.254           eae         gold.eae.com.sa         198.77.102.185           eajb         david.siemens.com.sg         203.127.206.11           eajb         david.siemens.de         192.35.17.1           eajb         ns.sbs.de         194.112.84.17           elkhereiji         faith.mynet.net         208.162.200.3           energico         ns0.rom         209.169.1187           energico         ns0.rom <t< td=""><td></td><td></td><td></td></t<>  |               |                           |                |
| brnamj         ns.web2010.com         209.235.31.149           brnamj         ns2.web2010.com         209.196.60.253           ccc         ns.nameservers.net         207.158.192.40           ccc         ns2.nameservers.net         209.41.31.13           ccc         ns3.nameservers.net         209.41.31.14           compulink         dns1.american-data.net         209.40.69.248.194           computerworks         ns.siteprotect.com         209.100.98.10           computerworks         ns2.siteprotect.com         209.102.41.44.2           desmal         dns1.american-data.net         204.69.248.194           dead         david.siemens.com.sg         203.127.206.11           eajb         david.siemens.com.sg         209.197.64.1 <td></td> <td></td> <td></td>  |               |                           |                |
| brnamj         ns2.web2010.com         209.196.60.253           ccc         ns.nameservers.net         207.158.192.40           ccc         ns2.nameservers.net         209.41.31.13           ccc         ns3.nameservers.net         209.41.31.14           compulink         dns1.american-data.net         204.69.248.194           compulerworks         ns.siteprotect.com         209.100.98.10           computerworks         ns2.siteprotect.com         209.224.144.2           desmal         dns1.american-data.net         204.69.248.194           desmal         dns2.american-data.net         198.85.227.254           eae         gold.eae.com.sa         198.77.102.185           eajb         david.siemens.com.sg         203.127.206.11           eajb         david.siemens.de         192.35.17.1           eajb         ns.sbs.de         194.112.84.17           elkhereiji         faith.mynet.net         208.162.200.3           energico         ns0.ns0.com         209.197.64.1           energico         ns89.pair.com         209.681.187           ericsson         dns.primaerdata.net         204.69.248.194           ewe         dns2.american-data.net         195.1.00.61.2           ewe         dns2.american-data.net <td></td> <td></td> <td></td>  |               |                           |                |
| ccc         ns.nameservers.net         207.158.192.40           ccc         ns2.nameservers.net         209.41.31.13           ccc         ns3.nameservers.net         209.41.31.14           compulink         dns1.american-data.net         209.46.9.248.194           compulink         dns2.american-data.net         198.85.227.254           computerworks         ns.siteprotect.com         209.100.98.10           computerworks         ns2.siteprotect.com         209.224.144.2           desmal         dns1.american-data.net         204.69.248.194           desmal         dns2.american-data.net         198.85.227.254           eae         gold.eae.com.sa         198.77.102.185           eajb         david.siemens.com.sg         203.127.206.11           eajb         david.siemens.de         192.35.17.1           eajb         david.siemens.de         192.35.17.1           eajb         ns.sbs.de         194.112.84.17           elkhereiji         faith.mynet.net         208.162.200.4           elkhereiji         jaguar.mynet.net         208.162.200.3           energico         ns0.ns0.com         209.197.64.1           energico         ns0.ns0.com         209.197.64.1           energico         ns.primaerdata.ne<   |               |                           |                |
| ccc         ns2.nameservers.net         209.41.31.13           ccc         ns3.nameservers.net         209.41.31.14           compulink         dns1.american-data.net         204.69.248.194           computerworks         ns.siteprotect.com         209.100.98.10           computerworks         ns.siteprotect.com         209.224.144.2           desmal         dns1.american-data.net         204.69.248.194           desmal         dns2.american-data.net         198.85.227.254           eae         gold.eae.com.sa         198.77.102.185           eajb         david.siemens.com.sg         203.127.206.11           eajb         david.siemens.de         192.35.17.1           eajb         ns.sbs.de         194.112.84.17           elkhereiji         faith.mynet.net         208.162.200.4           elkhereiji         jaguar.mynet.net         208.162.200.3           energico         ns89.pair.com         209.197.64.1           energico         ns89.pair.com         209.68.1.187           ericsson         dns.primaerdata.ne         195.100.61.2           ewe         dns1.american-data.net         204.69.248.194           ewe         dns2.american-data.net         198.85.227.254           gns         phoenix.azc.com </td <td>brnamj</td> <td>ns2.web2010.com</td> <td></td>   | brnamj        | ns2.web2010.com           |                |
| ccc         ns3.nameservers.net         209.41.31.14           compulink         dns1.american-data.net         204.69.248.194           compulink         dns2.american-data.net         198.85.227.254           computerworks         ns.siteprotect.com         209.100.98.10           computerworks         ns2.siteprotect.com         209.224.144.2           desmal         dns1.american-data.net         204.69.248.194           desmal         dns2.american-data.net         198.85.227.254           eae         gold.eae.com.sa         198.77.102.185           eajb         david.siemens.com.sg         203.127.206.11           eajb         david.siemens.de         192.35.17.1           eajb         ns.sbs.de         194.112.84.17           elkhereiji         faith.mynet.net         208.162.200.4           elkhereiji         jaguar.mynet.net         208.162.200.3           energico         ns0.ns0.com         209.197.64.1           energico         ns0.ns0.com         209.68.1.187           ericsson         dns.primaerdata.no         195.1.90.3           ericsson         ylle.numera.se         195.100.61.2           ewe         dns1.american-data.net         204.69.248.194           gac         dns2.american-da   | ccc           | ns.nameservers.net        |                |
| compulink         dns1.american-data.net         204.69.248.194           compulink         dns2.american-data.net         198.85.227.254           computerworks         ns.siteprotect.com         209.100.98.10           computerworks         ns2.siteprotect.com         209.224.144.2           desmal         dns1.american-data.net         204.69.248.194           desmal         dns2.american-data.net         198.85.227.254           eae         gold.eae.com.sa         198.77.102.185           eajb         david.siemens.com.sg         203.127.206.11           eajb         david.siemens.de         192.35.17.1           eajb         ns.sbs.de         194.112.84.17           elkhereiji         faith.mynet.net         208.162.200.4           elkhereiji         jaguar.mynet.net         208.162.200.3           energico         ns0.ns0.com         209.197.64.1           energico         ns89.pair.com         209.68.1.187           ericsson         dns.primaerdata.no         195.1.90.3           ericsson         ylle.numera.se         195.100.61.2           ewe         dns1.american-data.net         204.69.248.194           gac         dns2.american-data.net         198.85.227.254           gns         ns1.azc.c   | CCC           | ns2.nameservers.net       |                |
| compulink         dns2.american-data.net         198.85.227.254           computerworks         ns.siteprotect.com         209.100.98.10           computerworks         ns2.siteprotect.com         209.224.144.2           desmal         dns1.american-data.net         204.69.248.194           desmal         dns2.american-data.net         198.85.227.254           eae         gold.eae.com.sa         198.77.102.185           eajb         david.siemens.com.sg         203.127.206.11           eajb         david.siemens.de         192.35.17.1           eajb         ns.sbs.de         194.112.84.17           elkhereiji         faith.mynet.net         208.162.200.4           elkhereiji         jaguar.mynet.net         208.162.200.3           energico         ns0.ns0.com         209.197.64.1           energico         ns89.pair.com         209.681.1187           ericsson         dns.primaerdata.no         195.1.90.3           ericsson         ylle.numera.se         195.100.61.2           ewe         dns1.american-data.net         204.69.248.194           ewe         dns2.american-data.net         198.85.227.254           gac         dns2.american-data.net         198.85.227.254           gns         phoenix.azc.com   | CCC           | ns3.nameservers.net       | 209.41.31.14   |
| computerworks         ns.siteprotect.com         209.100.98.10           computerworks         ns2.siteprotect.com         209.224.144.2           desmal         dns1.american-data.net         204.69.248.194           desmal         dns2.american-data.net         198.85.227.254           eae         gold.eae.com.sa         198.77.102.185           eajb         david.siemens.com.sg         203.127.206.11           eajb         david.siemens.de         192.35.17.1           elkhereiji         faith.mynet.net         208.162.200.4           elkhereiji         jaguar.mynet.net         208.162.200.4           elkhereiji         jaguar.mynet.net         208.162.200.3           energico         ns0.ns0.com         209.197.64.1           energico         ns89.pair.com         209.68.1.187           ericsson         dns.primaerdata.no         195.1.90.3           ericsson         ylle.numera.se         195.100.61.2           ewe         dns1.american-data.net         204.69.248.194           ewe         dns2.american-data.net         198.85.227.254           gac         dns2.american-data.net         198.85.227.254           gns         ns1.azc.com         205.185.165.2           goldenpalm         ns.nameserver   | compulink     | dns1.american-data.net    | 204.69.248.194 |
| computerworks         ns2.siteprotect.com         209.224.144.2           desmal         dns1.american-data.net         204.69.248.194           desmal         dns2.american-data.net         198.85.227.254           eae         gold.eae.com.sa         198.77.102.185           eajb         david.siemens.com.sg         203.127.206.11           eajb         david.siemens.de         192.35.17.1           eajb         ns.sbs.de         194.112.84.17           elkhereiji         faith.mynet.net         208.162.200.4           elkhereiji         jaguar.mynet.net         208.162.200.3           energico         ns0.ns0.com         209.197.64.1           energico         ns89.pair.com         209.681.187           ericsson         dns.primaerdata.no         195.1.90.3           ericsson         ylle.numera.se         195.100.61.2           ewe         dns1.american-data.net         204.69.248.194           ewe         dns2.american-data.net         198.85.227.254           gac         dns2.american-data.net         204.69.248.194           gac         dns2.american-data.net         205.185.165.4           gns         phoenix.azc.com         205.185.165.4           goldenpalm         ns.nameservers.net  | compulink     | dns2.american-data.net    | 198.85.227.254 |
| desmal       dns1.american-data.net       204.69.248.194         desmal       dns2.american-data.net       198.85.227.254         eae       gold.eae.com.sa       198.77.102.185         eajb       david.siemens.com.sg       203.127.206.11         eajb       david.siemens.de       192.35.17.1         eajb       ns.sbs.de       194.112.84.17         elkhereiji       faith.mynet.net       208.162.200.4         elkhereiji       jaguar.mynet.net       208.162.200.3         energico       ns0.ns0.com       209.197.64.1         energico       ns89.pair.com       209.197.64.1         energico       ns89.pair.com       209.68.1.187         ericsson       dns.primaerdata.no       195.1.90.3         ericsson       ylle.numera.se       195.100.61.2         ewe       dns1.american-data.net       204.69.248.194         ewe       dns2.american-data.net       198.85.227.254         gac       dns1.american-data.net       198.85.227.254         gns       ns1.azc.com       205.185.165.4         gns       phoenix.azc.com       205.185.165.2         goldenpalm       ns2.nameservers.net       209.41.31.13         goldenpalm       ns3.nameservers.net       209.41.31.  | computerworks | ns.siteprotect.com        | 209.100.98.10  |
| desmal       dns2.american-data.net       198.85.227.254         eae       gold.eae.com.sa       198.77.102.185         eajb       david.siemens.com.sg       203.127.206.11         eajb       david.siemens.de       192.35.17.1         eajb       ns.sbs.de       194.112.84.17         elkhereiji       faith.mynet.net       208.162.200.4         elkhereiji       jaguar.mynet.net       208.162.200.3         energico       ns0.ns0.com       209.197.64.1         energico       ns89.pair.com       209.68.1.187         ericsson       dns.primaerdata.no       195.1.90.3         ericsson       ylle.numera.se       195.100.61.2         ewe       dns1.american-data.net       204.69.248.194         gac       dns1.american-data.net       198.85.227.254         gac       dns2.american-data.net       204.69.248.194         gac       dns2.american-data.net       198.85.227.254         gns       phoenix.azc.com       205.185.165.4         gns       phoenix.azc.com       205.185.165.2         goldenpalm       ns.nameservers.net       209.41.31.13         goldenpalm       ns3.nameservers.net       209.41.31.14         gulfnet       ns1.azc.com       205.185.165.4  | computerworks | ns2.siteprotect.com       | 209.224.144.2  |
| eae       gold.eae.com.sa       198.77.102.185         eajb       david.siemens.com.sg       203.127.206.11         eajb       david.siemens.de       192.35.17.1         eajb       ns.sbs.de       194.112.84.17         elkhereiji       faith.mynet.net       208.162.200.4         elkhereiji       jaguar.mynet.net       208.162.200.3         energico       ns0.ns0.com       209.197.64.1         energico       ns89.pair.com       209.68.1.187         ericsson       dns.primaerdata.no       195.1.90.3         ericsson       ylle.numera.se       195.100.61.2         ewe       dns1.american-data.net       204.69.248.194         ewe       dns2.american-data.net       198.85.227.254         gac       dns1.american-data.net       198.85.227.254         gns       ns1.azc.com       205.185.165.4         gns       phoenix.azc.com       205.185.165.2         goldenpalm       ns.nameservers.net       209.41.31.13         goldenpalm       ns3.nameservers.net       209.41.31.14         gulfnet       ns1.azc.com       205.185.165.4   | desmal        | dns1.american-data.net    | 204.69.248.194 |
| eajb       david.siemens.com.sg       203.127.206.11         eajb       david.siemens.de       192.35.17.1         eajb       ns.sbs.de       194.112.84.17         elkhereiji       faith.mynet.net       208.162.200.4         elkhereiji       jaguar.mynet.net       208.162.200.3         energico       ns0.ns0.com       209.197.64.1         energico       ns89.pair.com       209.68.1.187         ericsson       dns.primaerdata.no       195.1.90.3         ericsson       ylle.numera.se       195.100.61.2         ewe       dns1.american-data.net       204.69.248.194         ewe       dns2.american-data.net       198.85.227.254         gac       dns2.american-data.net       198.85.227.254         gns       ns1.azc.com       205.185.165.4         gns       phoenix.azc.com       205.185.165.2         goldenpalm       ns.nameservers.net       207.158.192.40         goldenpalm       ns3.nameservers.net       209.41.31.14         gulfnet       ns1.azc.com       205.185.165.4  | desmal        | dns2.american-data.net    | 198.85.227.254 |
| eajb       david.siemens.de       192.35.17.1         eajb       ns.sbs.de       194.112.84.17         elkhereiji       faith.mynet.net       208.162.200.4         elkhereiji       jaguar.mynet.net       208.162.200.3         energico       ns0.ns0.com       209.197.64.1         energico       ns89.pair.com       209.68.1.187         ericsson       dns.primaerdata.no       195.1.90.3         ericsson       ylle.numera.se       195.100.61.2         ewe       dns1.american-data.net       204.69.248.194         ewe       dns2.american-data.net       198.85.227.254         gac       dns1.american-data.net       204.69.248.194         gac       dns2.american-data.net       198.85.227.254         gns       phoenix.azc.com       205.185.165.4         gns       phoenix.azc.com       205.185.165.2         goldenpalm       ns.nameservers.net       207.158.192.40         goldenpalm       ns3.nameservers.net       209.41.31.13         goldenpalm       ns3.nameservers.net       209.41.31.14         gulfnet       ns1.azc.com       205.185.165.4   | eae           | gold.eae.com.sa           | 198.77.102.185 |
| eajb       ns.sbs.de       194.112.84.17         elkhereiji       faith.mynet.net       208.162.200.4         elkhereiji       jaguar.mynet.net       208.162.200.3         energico       ns0.ns0.com       209.197.64.1         energico       ns89.pair.com       209.68.1.187         ericsson       dns.primaerdata.no       195.1.90.3         ericsson       ylle.numera.se       195.100.61.2         ewe       dns1.american-data.net       204.69.248.194         ewe       dns2.american-data.net       198.85.227.254         gac       dns1.american-data.net       204.69.248.194         gac       dns2.american-data.net       198.85.227.254         gns       ns1.azc.com       205.185.165.4         gns       phoenix.azc.com       205.185.165.2         goldenpalm       ns.nameservers.net       207.158.192.40         goldenpalm       ns3.nameservers.net       209.41.31.13         goldenpalm       ns3.nameservers.net       209.41.31.14         gulfnet       ns1.azc.com       205.185.165.4   | eajb          | david.siemens.com.sg      | 203.127.206.11 |
| elkhereiji       faith.mynet.net       208.162.200.4         elkhereiji       jaguar.mynet.net       208.162.200.3         energico       ns0.ns0.com       209.197.64.1         energico       ns89.pair.com       209.68.1.187         ericsson       dns.primaerdata.no       195.1.90.3         ericsson       ylle.numera.se       195.100.61.2         ewe       dns1.american-data.net       204.69.248.194         gac       dns2.american-data.net       198.85.227.254         gac       dns2.american-data.net       198.85.227.254         gns       ns1.azc.com       205.185.165.4         gns       phoenix.azc.com       205.185.165.2         goldenpalm       ns.nameservers.net       207.158.192.40         goldenpalm       ns3.nameservers.net       209.41.31.13         goldenpalm       ns3.nameservers.net       209.41.31.14         gulfnet       ns1.azc.com       205.185.165.4  | eajb          | david.siemens.de          | 192.35.17.1    |
| elkhereiji       jaguar.mynet.net       208.162.200.3         energico       ns0.ns0.com       209.197.64.1         energico       ns89.pair.com       209.68.1.187         ericsson       dns.primaerdata.no       195.1.90.3         ericsson       ylle.numera.se       195.100.61.2         ewe       dns1.american-data.net       204.69.248.194         gac       dns2.american-data.net       198.85.227.254         gac       dns2.american-data.net       198.85.227.254         gns       ns1.azc.com       205.185.165.4         gns       phoenix.azc.com       205.185.165.2         goldenpalm       ns.nameservers.net       207.158.192.40         goldenpalm       ns2.nameservers.net       209.41.31.13         goldenpalm       ns3.nameservers.net       209.41.31.14         gulfnet       ns1.azc.com       205.185.165.4   | eajb          | ns.sbs.de                 | 194.112.84.17  |
| elkhereiji       jaguar.mynet.net       208.162.200.3         energico       ns0.ns0.com       209.197.64.1         energico       ns89.pair.com       209.68.1.187         ericsson       dns.primaerdata.no       195.1.90.3         ericsson       ylle.numera.se       195.100.61.2         ewe       dns1.american-data.net       204.69.248.194         ewe       dns2.american-data.net       198.85.227.254         gac       dns2.american-data.net       198.85.227.254         gns       ns1.azc.com       205.185.165.4         gns       phoenix.azc.com       205.185.165.2         goldenpalm       ns.nameservers.net       207.158.192.40         goldenpalm       ns3.nameservers.net       209.41.31.13         goldenpalm       ns3.nameservers.net       209.41.31.14         gulfnet       ns1.azc.com       205.185.165.4   | elkhereiji    | faith.mynet.net           | 208.162.200.4  |
| energico       ns0.ns0.com       209.197.64.1         energico       ns89.pair.com       209.68.1.187         ericsson       dns.primaerdata.no       195.1.90.3         ericsson       ylle.numera.se       195.100.61.2         ewe       dns1.american-data.net       204.69.248.194         ewe       dns2.american-data.net       198.85.227.254         gac       dns1.american-data.net       198.85.227.254         gns       ns1.azc.com       205.185.165.4         gns       phoenix.azc.com       205.185.165.2         goldenpalm       ns.nameservers.net       207.158.192.40         goldenpalm       ns2.nameservers.net       209.41.31.13         goldenpalm       ns3.nameservers.net       209.41.31.14         gulfnet       ns1.azc.com       205.185.165.4   |               |                           | 208.162.200.3  |
| energico       ns89.pair.com       209.68.1.187         ericsson       dns.primaerdata.no       195.1.90.3         ericsson       ylle.numera.se       195.100.61.2         ewe       dns1.american-data.net       204.69.248.194         ewe       dns2.american-data.net       198.85.227.254         gac       dns1.american-data.net       204.69.248.194         gac       dns2.american-data.net       198.85.227.254         gns       ns1.azc.com       205.185.165.4         gns       phoenix.azc.com       205.185.165.2         goldenpalm       ns.nameservers.net       207.158.192.40         goldenpalm       ns3.nameservers.net       209.41.31.13         goldenpalm       ns3.nameservers.net       209.41.31.14         gulfnet       ns1.azc.com       205.185.165.4   |               |                           | 209.197.64.1   |
| ericsson       dns.primaerdata.no       195.1.90.3         ericsson       ylle.numera.se       195.100.61.2         ewe       dnsl.american-data.net       204.69.248.194         ewe       dns2.american-data.net       198.85.227.254         gac       dnsl.american-data.net       204.69.248.194         gac       dns2.american-data.net       198.85.227.254         gns       nsl.azc.com       205.185.165.4         gns       phoenix.azc.com       205.185.165.2         goldenpalm       ns.nameservers.net       207.158.192.40         goldenpalm       ns3.nameservers.net       209.41.31.13         goldenpalm       ns3.nameservers.net       209.41.31.14         gulfnet       ns1.azc.com       205.185.165.4   |               | ns89.pair.com             | 209.68.1.187   |
| ericsson       ylle.numera.se       195.100.61.2         ewe       dns1.american-data.net       204.69.248.194         ewe       dns2.american-data.net       198.85.227.254         gac       dns1.american-data.net       204.69.248.194         gac       dns2.american-data.net       198.85.227.254         gns       ns1.azc.com       205.185.165.4         gns       phoenix.azc.com       205.185.165.2         goldenpalm       ns.nameservers.net       207.158.192.40         goldenpalm       ns2.nameservers.net       209.41.31.13         goldenpalm       ns3.nameservers.net       209.41.31.14         gulfnet       ns1.azc.com       205.185.165.4  |               |                           |                |
| ewe       dns1.american-data.net       204.69.248.194         ewe       dns2.american-data.net       198.85.227.254         gac       dns1.american-data.net       204.69.248.194         gac       dns2.american-data.net       198.85.227.254         gns       ns1.azc.com       205.185.165.4         gns       phoenix.azc.com       205.185.165.2         goldenpalm       ns.nameservers.net       207.158.192.40         goldenpalm       ns2.nameservers.net       209.41.31.13         goldenpalm       ns3.nameservers.net       209.41.31.14         gulfnet       ns1.azc.com       205.185.165.4   |               |                           | 195.100.61.2   |
| ewe       dns2.american-data.net       198.85.227.254         gac       dns1.american-data.net       204.69.248.194         gac       dns2.american-data.net       198.85.227.254         gns       ns1.azc.com       205.185.165.4         gns       phoenix.azc.com       205.185.165.2         goldenpalm       ns.nameservers.net       207.158.192.40         goldenpalm       ns2.nameservers.net       209.41.31.13         goldenpalm       ns3.nameservers.net       209.41.31.14         gulfnet       ns1.azc.com       205.185.165.4   | ewe           | -                         |                |
| gac       dns1.american-data.net       204.69.248.194         gac       dns2.american-data.net       198.85.227.254         gns       ns1.azc.com       205.185.165.4         gns       phoenix.azc.com       205.185.165.2         goldenpalm       ns.nameservers.net       207.158.192.40         goldenpalm       ns2.nameservers.net       209.41.31.13         goldenpalm       ns3.nameservers.net       209.41.31.14         gulfnet       ns1.azc.com       205.185.165.4   |               |                           |                |
| gac       dns2.american-data.net       198.85.227.254         gns       ns1.azc.com       205.185.165.4         gns       phoenix.azc.com       205.185.165.2         goldenpalm       ns.nameservers.net       207.158.192.40         goldenpalm       ns2.nameservers.net       209.41.31.13         goldenpalm       ns3.nameservers.net       209.41.31.14         gulfnet       ns1.azc.com       205.185.165.4   |               |                           |                |
| gns         ns1.azc.com         205.185.165.4           gns         phoenix.azc.com         205.185.165.2           goldenpalm         ns.nameservers.net         207.158.192.40           goldenpalm         ns2.nameservers.net         209.41.31.13           goldenpalm         ns3.nameservers.net         209.41.31.14           gulfnet         ns1.azc.com         205.185.165.4   |               |                           |                |
| gns         phoenix.azc.com         205.185.165.2           goldenpalm         ns.nameservers.net         207.158.192.40           goldenpalm         ns2.nameservers.net         209.41.31.13           goldenpalm         ns3.nameservers.net         209.41.31.14           gulfnet         ns1.azc.com         205.185.165.4   |               |                           |                |
| goldenpalmns.nameservers.net207.158.192.40goldenpalmns2.nameservers.net209.41.31.13goldenpalmns3.nameservers.net209.41.31.14gulfnetns1.azc.com205.185.165.4  | =             |                           |                |
| goldenpalmns2.nameservers.net209.41.31.13goldenpalmns3.nameservers.net209.41.31.14gulfnetns1.azc.com205.185.165.4  | _             |                           |                |
| goldenpalmns3.nameservers.net209.41.31.14gulfnetns1.azc.com205.185.165.4   |               |                           |                |
| gulfnet ns1.azc.com 205.185.165.4  |               |                           |                |
|  |               |                           |                |
| $aulfnet \qquad \qquad nhoeniv aza acm acm according to the second $ | gulfnet       | phoenix.azc.com           | 205.185.165.2  |
|  | _             |                           |                |
| haaco ns.nameservers.net 207.158.192.40 haaco ns2.nameservers.net 209.41.31.13   |               |                           |                |
| 1152.11ameservers.11et 209.41.31.13  | 114400        | 1152.11dillebet verb.11et | 707.41.31.13   |

| haaco           | ns3.nameservers.net                  | 209.41.31.14    |
|-----------------|--------------------------------------|-----------------|
| hasib           | faith.mynet.net                      | 208.162.200.4   |
| hasib           | ns4.mci.net                          | 204.70.49.234   |
| hempel          | dns.primarydata.no                   | 195.1.90.3      |
| hempel          | ylle.numera.se                       | 195.100.61.2    |
| hha             | ns.nameservers.net                   | 207.158.192.40  |
| hha             | ns2.nameservers.net                  | 209.41.31.13    |
| hha             | ns3.nameservers.net                  | 209.41.31.14    |
| homecenter      | dn1.4biz.net                         | 208.214.24.5    |
| homecenter      | dn2.4biz.net                         | 208.214.24.10   |
| horizons        | faith.mynet.net                      | 208.162.200.4   |
| horizons        | ns4.mci.net                          | 204.70.49.234   |
| houseofdonuts   | faith.mynet.net                      | 208.162.200.4   |
| houseofdonuts   | jaguar.mynet.net                     | 208.162.200.3   |
| ics             | ns.gcc.com.bh                        | 193.188.104.2   |
| ics             | ns2.gcc.com.bh                       | 173.100.101.2   |
| ikea            | nsl.webservices.net                  | 194.106.36.1    |
| ikea            | ns2.webservices.net                  | 194.72.236.3    |
| jabria          | ns0.ns0.com                          | 209.197.64.1    |
| jabria          | ns87.pair.com                        | 209.68.1.183    |
| jccs            | sv6.batelco.com.bh                   | 193.188.97.212  |
| jccs            | sv7.batelco.com.bh                   | 193.188.97.197  |
| jeraisy         | sv6.batelco.com.bh                   | 193.188.97.212  |
| _               | sv7.batelco.com.bh                   | 193.188.97.212  |
| jeraisy<br>kacs | dnsl.american-data.net               | 204.69.248.194  |
|                 | dns1.american-data.net               |                 |
| kacs            |                                      | 198.85.227.254  |
| karam-asg       | <pre>dn1.4biz.net dn2.4biz.net</pre> | 208.214.24.5    |
| karam-asg       |                                      | 208.214.24.10   |
| kia             | ns.nameservers.net                   | 207.158.192.40  |
| kia             | ns2.nameservers.net                  | 209.41.31.13    |
| kia             | ns3.nameservers.net                  | 209.41.31.14    |
| lana            | faith.mynet.net                      | 208.162.200.4   |
| lana            | jaguar.mynet.net                     | 208.162.200.3   |
| lappet          | ns0.netbenefit.co.uk                 | 212.53.64.30    |
| lappet          | nsl.netbenefit.co.uk                 | 212.53.77.30    |
| legrand         | polaris.gsi.fr                       | 150.175.128.2   |
| legrand         | relay1.fnet.fr                       | 192.134.192.129 |
| marmo-tech      | dn1.4biz.net                         | 208.214.24.5    |
| marmo-tech      | dn2.4biz.net                         | 208.214.24.10   |
| mazda           | ns.nameservers.net                   | 207.158.192.40  |
| mazda           | ns2.nameservers.net                  | 209.41.31.13    |
| mazda           | ns3.nameservers.net                  | 209.41.31.14    |
| mcdf            | ns0.ns0.com                          | 209.197.64.1    |
| mcdf            | ns87.pair.com                        | 209.68.1.183    |
| medco           | ns1.powerhost.co.uk                  | 209.207.141.81  |
| medco           | ns2.powerhost.co.uk                  | 207.153.246.211 |
| mel             | relay.orbit.net                      | 194.177.108.200 |
| mel             | venere.inet.it                       | 194.20.8.4      |
|                 |                                      | 194.185.132.253 |
| mercury         | ns.nameservers.net                   | 207.158.192.40  |
| mercury         | ns2.nameservers.net                  | 209.41.31.13    |
| mercury         | ns3.nameservers.net                  | 209.41.31.14    |
| mpt             | faith.mynet.net                      | 208.162.200.4   |
|                 |                                      |                 |

| mpt               | jaguar.mynet.net            | 208.162.200.3   |
|-------------------|-----------------------------|-----------------|
| mpt               | ns4.cw.net                  | 204.70.49.234   |
| m-s-al-ajlan-sons | ns0.netbenefit.co.uk        | 212.53.64.30    |
| m-s-al-ajlan-sons | ns1.netbenefit.co.uk        | 212.53.77.30    |
| mso               | ns1.allinfosys.com          | 207.55.155.2    |
| mso               | ns2.allinfosys.com          | 209.44.59.2     |
| naseej            | ns1.naseej.com.sa           | 212.26.50.35    |
| naseej            | ns2.naseej.com.sa           | 212.26.50.39    |
| natcom            | ns.nameservers.net          | 207.158.192.40  |
| natcom            | ns2.nameservers.net         | 209.41.31.13    |
| natcom            | ns3.nameservers.net         | 209.41.31.14    |
| ncci              | ns1.sitehosting.net         | 208.232.92.2    |
| ncci              | ns3.sitehosting.net         | 208.227.179.3   |
| nic               | ns5.netcomi.com             | 204.58.155.20   |
| nic               | ns6.netcomi.com             | 204.58.155.21   |
| nixu              | ns.nixu.com.sa              | 193.209.237.29  |
| nixu              | nsl.isu.net.sa              | 212.26.18.3     |
|                   |                             | 212.20.16.3     |
| nour              | enginel.firstnet.com.jo     | 212.35.04.254   |
| nour              | engine5.first.net.jo        | 000 107 64 1    |
| pamatec           | ns0.ns0.com                 | 209.197.64.1    |
| pamatec           | ns59.pair.com               | 209.68.1.127    |
| prosco            | ns0.ns0.com                 | 209.197.64.1    |
| prosco            | ns89.pair.com               | 209.68.1.187    |
| rabie             | dns1.american-data.net      | 204.69.248.194  |
| rabie             | dns2.american-data.net      | 198.85.227.254  |
| riyadbank         | nsl.arab.net                | 194.73.200.1    |
| riyadbank         | ns2.arab.net                | 194.73.200.2    |
| riyadhweb         | ns.web2010.com              | 209.235.31.149  |
| riyadhweb         | ns2.web2010.com             | 209.196.60.253  |
| rolls-royce       | dns0.link96.com             | 194.164.30.12   |
| rolls-royce       | dns1.link96.com             | 194.164.30.10   |
| saadeddin         | dn1.4biz.net                | 208.214.24.5    |
| saadeddin         | dn2.4biz.net                | 208.214.24.10   |
| sahara            | dns1.bahrain.com            | 193.188.106.2   |
| sahara            | dns2.bahrain.com            | 193.188.106.3   |
| sakia             | <pre>faith.mynet.net</pre>  | 208.162.200.4   |
| sakia             | <pre>jaguar.mynet.net</pre> | 208.162.200.3   |
| saudifal          | ns.nameservers.net          | 207.158.192.40  |
| saudifal          | ns2.nameservers.net         | 209.41.31.13    |
| saudifal          | ns3.nameservers.net         | 209.41.31.14    |
| saudinfo          | ns1.kacst.edu.sa            | 198.77.88.3     |
| saudinfo          | ns2.kacst.edu.sa            | 198.77.88.2     |
| saudionline       | dnsl.american-data.net      | 204.69.248.194  |
| saudionline       | dns2.american-data.net      | 198.85.227.254  |
| saudioracle       | nsl.oracle.co.uk            | 194.73.152.5    |
| saudioracle       | ns2.oracle.co.uk            | 193.130.129.194 |
| sbm               | ns.de.ibm.net               | 152.158.2.48    |
| sbm               | ns.uk.ibm.net               | 152.158.16.48   |
| scec              | ns.nameservers.net          | 207.158.192.40  |
| scec              | ns2.nameservers.net         | 209.41.31.13    |
| scec              | ns3.nameservers.net         | 209.41.31.14    |
| sceco-c           | ns1.nameserve.net           | 207.159.128.3   |
| sceco-c           | ns2.nameserve.net           | 207.159.128.11  |
|                   |                             |                 |

| Seeco-east   dnsl.american-data.net   204.69.248.194     seeco-east   dnsl.american-data.net   198.85.227.254     shemagh-al-bassam   ns0.netbenefit.co.uk   212.53.64.30     shemagh-al-bassam   nsl.netbenefit.co.uk   212.53.77.30     shields   nsl.scure.net   192.41.1.10     slemens   david.slemens.com.sg   203.127.206.11     slemens   david.slemens.de   192.35.17.1     silkilasilki   nsl.smorgh.com   205.158.6.22     silkilasilki   nsl.simorgh.com   205.158.6.22     silkilasilki   nsl.simorgh.com   209.1.163.10     sis   nsl.secure.net   192.41.1.10     sis   nsl.secure.net   192.41.1.10     sis   nsl.secure.net   192.41.1.10     spimaco   ns.nameservers.net   207.158.192.40     spimaco   ns.nameservers.net   207.158.192.40     spimaco   nsl.american-data.net   204.69.248.194     sraco   dnsl.american-data.net   204.69.248.194     sraco   dnsl.american-data.net   204.69.248.194     sraco   dnsl.american-data.net   204.69.248.194     stoc   nsl.sa.medu.net   208.214.24.10     stoc   nsl.sa.medu.net   206.241.58.120     stoc   nslstc.sa.medu.net   206.241.58.240     206.241.58.120     stoc   nslstc.sa.medu.net   209.224.144.10     tughrastamps   ns.siteprotect.com   209.100.98.10     tughrastamps   nsl.siteprotect.com   209.224.144.10     tu | sceco-c            | ns3.nameserve.net      | 207.159.153.115 |
|--|--------------------|------------------------|-----------------|
| sceco-east         dns2.american-data.net         198.55.227.254           shemagh-al-bassam         ns0.netbenefit.co.uk         212.53.64.30           shemagh-al-bassam         ns1.secure.net         192.41.1.10           shields         ns1.secure.net         192.41.1.10           siemens         david.siemens.com.sg         203.127.206.11           siemens         david.siemens.de         192.35.17.1           siemens         david.siemens.de         209.11.31.0           sie         ns1.secure.net         192.41.2.10           sie         ns2.secure.net         209.41.31.13           spimaco         ns2.secure.net         209.41.31.13           spimaco         ns2.amererers.net         209.41.31.13           spimaco         ns2.american-data.net         204  |                    |                        |                 |
| shemagh-al-bassam         ns0.netbenefit.co.uk         212.53.64.30           shemagh-al-bassam         ns1.netbenefit.co.uk         212.53.77.30           shields         ns2.secure.net         192.41.1.10           shields         ns2.secure.net         192.41.2.10           siemens         david.siemens.com.sg         203.127.206.11           siemens         david.siemens.com.sg         203.127.206.11           silkilasilki         ns1.gpg.com         205.158.6.22           silkilasilki         ns1.secure.net         192.41.1.10           sis         ns2.secure.net         192.41.1.10           spimaco         ns.nameservers.net         207.158.192.40           spimaco         ns2.nameservers.net         209.41.31.13           spimaco         ns3.nameservers.net         209.41.31.14           sraco         dns1.american-data.net         204.69.248.194           sraco         dns1.american-data.net         204.69.248.194           sraco         dns1.sa.medu.net         208.214.24.15           ssoc-asg         dn1.4biz.net         208.214.24.10           stc         ns1.sa.medu.net         206.241.58.120           st         spiment         206.241.58.20           st         spiment         20  |                    |                        |                 |
| shemagh-al-bassam         ns1.metbenefit.co.uk         212.53.77.30           shields         ns1.secure.net         192.41.1.10           siemens         david.siemens.com.sg         203.127.206.11           siemens         david.siemens.de         192.35.17.1           silkilasilki         ns1.simorgh.com         205.158.6.22           silkilasilki         ns1.simorgh.com         209.1.163.10           sis         ns1.secure.net         192.41.1.10           sis         ns2.secure.net         192.41.2.10           spimaco         ns2.nameservers.net         207.158.192.40           spimaco         ns2.nameservers.net         209.41.31.13           spimaco         ns3.nameservers.net         209.41.31.13           spimaco         ns3.nameservers.net         209.41.31.14           spimaco         ns3.nameservers.net         209.41.31.13           spimaco         dns2.american-data.net         204.69.241.94           sraco         dns2.secur   |                    |                        |                 |
| shields         ns1.secure.net         192.41.1.10           shields         ns2.secure.net         192.41.2.10           siemens         david.siemens.com.sg         203.127.206.11           siemens         david.siemens.de         192.35.17.1           silkilasilki         ns1.simorgh.com         205.158.6.22           silkilasilki         ns1.secure.net         192.41.1.10           sis         ns1.secure.net         192.41.2.10           spimaco         ns.nameservers.net         207.158.192.40           spimaco         ns2.nameservers.net         209.41.31.13           spimaco         ns3.nameservers.net         209.41.31.13           spimaco         ns3.nameservers.net         209.41.31.13           sraco         dns1.american-data.net         204.69.248.194           sraco         dns1.american-data.net         204.69.248.194           sraco         dns2.serrican-data.net         208.214.24.5           ssoc-asg         dn1.4biz.net         208.214.24.5           ssoc-asg         dn1.4biz.net         206.241.58.20           stc         ns1.stc.sa.medu.net         206.241.58.20           stc         ns1.stc.sa.medu.net         206.241.58.120           stc         ns1.steprotect.com <th< td=""><td></td><td></td><td></td></th<>   |                    |                        |                 |
| shields         ns2.secure.net         192.41.2.10           siemens         david.siemens.com.sg         203.127.206.11           siemens         david.siemens.de         192.35.17.1           silkilasilki         ns1.spg.com         205.158.6.22           silkilasilki         ns1.simorgh.com         209.1.163.10           sis         ns1.secure.net         192.41.1.10           sis         ns2.secure.net         192.41.2.10           spimaco         ns2.nameservers.net         207.158.192.40           spimaco         ns2.nameservers.net         209.41.31.13           spimaco         ns3.nameservers.net         209.41.31.13           spimaco         dns1.american-data.net         204.69.248.194           sraco         dns2.american-data.net         198.85.227.254           ssoc-asg         dn1.4biz.net         208.214.24.10           stc         ns1.sa.medu.net         206.241.58.20           stc         ns1stc.sa.medu.net         206.241.58.20           surfnet         ags.ga.erg.sri.com         192.26.244.14           tughrastamps         ns.siteprotect.com         209.100.98.10           um         dn1.4biz.net         208.214.24.2           uam         dn1.4biz.net         208.214.24.5 <td></td> <td></td> <td></td>  |                    |                        |                 |
| siemens         david.siemens.com.sg         203.127.206.11           siemens         david.siemens.de         192.35.17.1           silkilasilki         nsl.simorgh.com         205.158.6.22           silkilasilki         nsl.secure.net         192.41.1.10           sis         nsl.secure.net         192.41.1.10           spimaco         ns.nameservers.net         207.158.192.40           spimaco         ns.nameservers.net         209.41.31.13           spimaco         ns3.nameservers.net         209.41.31.13           sraco         dns1.american-data.net         204.69.248.194           sraco         dns1.american-data.net         204.69.248.194           sraco         dns1.american-data.net         204.69.244.144           sraco         dns1.american-data.net         204.69.244.124.5           soc-asg         dn1.4biz.net         208.214.24.5           stc         ns1.sa.medu.net         206.241.58.240           stc         ns1.st.csa.medu.net         206.241.58.240           stc         ns1.st.csa.medu.net         202.62.244.14           surfnet         ags-fs2.ga.erg.sri.com         192.26.244.14           surfnet         ags-fs2.ga.erg.sri.com         192.26.244.14           surfnet         ags-fs2   |                    |                        |                 |
| siemens         david.siemens.de         192,35.17.1           silkilasilki         nsl.spg.com         205.158.6.22           silkilasilki         nsl.simorgh.com         209.11.63.10           sis         nsl.secure.net         192.41.1.10           sis         ns2.secure.net         192.41.2.10           spimaco         ns.nameservers.net         207.158.192.40           spimaco         ns2.nameservers.net         209.41.31.14           sraco         dnsl.american-data.net         204.69.248.194           sraco         dnsl.american-data.net         198.85.227.254           ssoc-asg         dnl.4biz.net         208.214.24.15           stc         nsl.sa.medu.net         206.241.58.120           stc         nsl.sa.medu.net         206.241.58.120           stc         nslstc.sa.medu.net         212.26.19.252           surfnet         ags.ga.erg.sri.com         192.26.244.1           surfnet         ags.ga.erg.sri.com         192.26.244.14           tughrastamps         ns.siteprotect.com         209.100.98.10           tughrastamps         ns.siteprotect.com         209.100.98.10           tughrastamps         ns.2iteprotect.com         209.214.24.25           uam         dnl.4biz.net   |                    |                        |                 |
| silkilasilki         ns1.gmg.com         205.158.6.22           silkilasilki         ns1.simorgh.com         209.1.163.10           sis         ns1.secure.net         192.41.2.10           sis         ns.nameservers.net         192.41.2.10           spimaco         ns.nameservers.net         207.158.192.40           spimaco         ns2.nameservers.net         209.41.31.13           spimaco         dns3.nameservers.net         209.41.31.13           spimaco         dns1.merican-data.net         204.69.248.194           sraco         dns2.american-data.net         204.69.248.194           sraco         dns2.american-data.net         198.85.227.254           sco-asg         dn1.4biz.net         208.214.24.15           ssoc-asg         dn1.4biz.net         208.214.24.15           stc         ns1.sa.medu.net         206.241.58.120           stc         ns1.sa.medu.net         212.26.19.252           surfnet         ags.fs2.ga.erg.sri.com         192.26.244.1           surfnet         ags.fs2.ga.erg.sri.com         192.26.244.1           surfnet         ags.fs2.ga.erg.sri.com         192.26.244.1           surfnet         ags.fs2.ga.erg.sri.com         192.26.244.1           surfnet         ags.fs2.ga.erg.sri   |                    | <del>-</del>           |                 |
| silkilasilki         nsl.secure.net         192.41.10           sis         nsl.secure.net         192.41.2.10           spimaco         ns.nameservers.net         207.158.192.40           spimaco         ns.nameservers.net         209.41.31.13           spimaco         ns3.nameservers.net         209.41.31.14           sraco         dns1.american-data.net         204.69.248.194           sraco         dns1.american-data.net         198.85.227.254           ssoc-asg         dnl.4biz.net         208.214.24.15           stc         nsl.sa.medu.net         206.241.58.120           stc         nsl.sc.sa.medu.net         212.26.19.252           stc         nslstc.sa.medu.net         212.26.19.252           str         ass.siteprotect.com         192.26.244.1           surfnet         ags.ga.erg.sri.com         192.26.244.14           tughrastamps         ns.siteprotect.com         209.100.98.10           tughrastamps         ns.siteprotect.com         209.100.98.10           uam         dnl.4biz.net         208.214.24.5           uam         dnl.24biz.net         208.214.24.5           uam         dnl.24biz.net         208.214.24.10           wescosa         dnl.4biz.net         208.214.24.5  |                    |                        |                 |
| sis         ns1.secure.net         192.41.1.10           sis         ns2.secure.net         192.41.2.10           spimaco         ns nameservers.net         207.158.192.40           spimaco         ns2.nameservers.net         209.41.31.13           spimaco         dns1.american-data.net         209.41.31.14           sraco         dns1.american-data.net         204.69.248.194           sraco         dns2.american-data.net         198.85.227.254           ssoc-asg         dn1.4biz.net         208.214.24.10           stc         ns1.sa.medu.net         206.241.58.240           stc         ns1.sa.medu.net         202.241.24.10           surfnet         ags-fs2.ga.erg.sri.com         192.26.244.11           tughrastamps         ns2.siteprotect.com         209.224.144.2     <   |                    |                        |                 |
| sis         ns2.secure.net         192.41.2.10           spimaco         ns.nameservers.net         207.158.192.40           spimaco         ns3.nameservers.net         209.41.31.13           spimaco         ns3.nameservers.net         209.41.31.14           sraco         dns1.american-data.net         204.69.248.194           sraco         dns2.american-data.net         198.85.227.254           ssoc-asg         dn1.4biz.net         208.214.24.5           ssoc-asg         dn2.4biz.net         208.214.24.10           stc         ns1.sa.medu.net         206.241.58.120           stc         ns1.sc.a.medu.net         212.26.19.252           surfnet         ags.ga.erg.sri.com         192.26.244.1           surfnet         ags.ga.erg.sri.com         192.26.244.14           tughrastamps         ns.siteprotect.com         209.100.98.10           tughrastamps         ns.siteprotect.com         209.100.98.10           tughrastamps         ns.siteprotect.com         209.224.144.2           uam         dn1.4biz.net         208.214.24.5           uam         dn2.4biz.net         208.214.24.5           uam         dn2.4biz.net         208.214.24.10           wescosa         dn2.4biz.net         208.214.24.5<  |                    |                        |                 |
| spimaco         ns.nameservers.net         207.158.192.40           spimaco         ns2.nameservers.net         209.41.31.13           spimaco         dns1.american-data.net         209.41.31.14           sraco         dns1.american-data.net         204.69.248.194           sraco         dns2.american-data.net         198.85.227.254           ssoc-asg         dn1.4biz.net         208.214.24.5           ssoc-asg         dn2.4biz.net         208.214.24.10           stc         ns1.sa.medu.net         206.241.58.240           stc         ns1stc.sa.medu.net         212.26.19.252           surfnet         ags.ga.erg.sri.com         192.26.244.1           surfnet         ags.fs2.ga.erg.sri.com         192.26.244.1           tughrastamps         ns.siteprotect.com         209.100.98.10           tughrastamps         ns.siteprotect.com         209.224.144.2           uam         dn1.4biz.net         208.214.24.10           united-arab-motors         dn1.4biz.net         208.214.24.5           united-arab-motors         dn1.4biz.net         208.214.24.5           united-arab-motors         dn2.4biz.net         208.214.24.10           united-arab-motors         dn2.4biz.net         208.214.24.5           wescosa  |                    |                        |                 |
| spimaco         ns2.nameservers.net         209.41.31.13           spimaco         ns3.nameservers.net         209.41.31.14           sraco         dns2.american-data.net         204.69.248.194           sraco         dns2.american-data.net         198.85.227.254           ssoc-asg         dn1.4biz.net         208.214.24.10           stc         ns1.sa.medu.net         206.241.58.240           stc         nslstc.sa.medu.net         212.26.19.252           surfnet         ags.ga.erg.sri.com         192.26.244.1           surfnet         ags.ga.erg.sri.com         192.26.244.14           surfnet         ags.fs2.ga.erg.sri.com         192.26.244.14           surfnet         ags.ga.erg.sri.com         192.26.244.14           uam         ans.sitepr   |                    |                        |                 |
| spimaco         ns3.nameservers.net         209.41.31.14           sraco         dns1.american-data.net         204.69.248.194           sraco         dns2.american-data.net         198.85.227.25           ssoc-asg         dn1.4biz.net         208.214.24.5           ssoc-asg         dn2.4biz.net         208.214.24.10           stc         ns1.sa.medu.net         206.241.58.240           stc         nslstc.sa.medu.net         212.26.19.252           surfnet         ags.ga.erg.sri.com         192.26.244.1           tughrastamps         ns.siteprotect.com         192.26.244.14           tughrastamps         ns.siteprotect.com         209.100.98.10           tughrastamps         ns.siteprotect.com         209.100.98.10           tughrastamps         ns.siteprotect.com         209.224.144.2           uam         dn1.4biz.net         208.214.24.10           uam         dn2.4biz.net         208.214.24.10           united-arab-motors         dn1.4biz.net         208.214.24.5           wescosa         dn1.4biz.net         208.214.24.5           wescosa         dn2.4biz.net         208.214.24.10           wescosa         dn2.4biz.net         208.214.24.10           ygosaibi         dns1.american-data.net  |                    |                        |                 |
| sraco         dns1.american-data.net         204.69.248.194           sraco         dns2.american-data.net         198.85.227.254           ssoc-asg         dn1.4biz.net         208.214.24.5           ssoc-asg         dn2.4biz.net         208.214.24.10           stc         ns1.sa.medu.net         206.241.58.240           stc         ns1stc.sa.medu.net         212.26.19.252           surfnet         ags.ga.erg.sri.com         192.26.244.1           surfnet         ags.fs2.ga.erg.sri.com         192.26.244.1           surfnet         ags.fs2.da.1         24.1.2           surfnet <th< td=""><td></td><td></td><td></td></th<>  |                    |                        |                 |
| sraco         dns2.american-data.net         198.85.227.254           ssoc-asg         dn1.4biz.net         208.214.24.5           ssoc-asg         dn2.4biz.net         208.214.24.10           stc         ns1.sa.medu.net         206.241.58.120           stc         ns1stc.sa.medu.net         212.26.19.252           surfnet         ags.ga.erg.sri.com         192.26.244.1           surfnet         ags-fs2.ga.erg.sri.com         192.26.244.140           tughrastamps         ns.siteprotect.com         209.100.98.10           tughrastamps         ns.siteprotect.com         209.100.98.10           tughrastamps         ns.siteprotect.com         209.224.144.2           uam         dn1.4biz.net         208.214.24.5           uam         dn2.4biz.net         208.214.24.5           uamicd-arab-motors         dn1.4biz.net         208.214.24.10           wescosa         dn2.4biz.net         208.214.24.10           wescosa         dn1.4biz.net         208.214.24.10           wescosa         dn2.4biz.net         208.214.24.10           ygosaibi         dnsl.american-data.net         208.214.24.10           ygosaibi         dnsl.american-data.net         209.241.31.13           zahrani         ns.nameservers.net   |                    |                        |                 |
| ssoc-asg         dn1.4biz.net         208.214.24.10           stc         ns1.sa.medu.net         206.241.58.240           stc         ns1stc.sa.medu.net         206.241.58.120           stc         ns1stc.sa.medu.net         212.26.19.252           surfnet         ags.ga.erg.sri.com         192.26.244.1           surfnet         ags.fs2.ga.erg.sri.com         192.26.244.140           tughrastamps         ns.siteprotect.com         209.100.98.10           tughrastamps         ns2.siteprotect.com         209.100.98.10           tughrastamps         ns2.siteprotect.com         209.224.144.2           uam         dn1.4biz.net         208.214.24.5           uam         dn2.4biz.net         208.214.24.5           united-arab-motors         dn1.4biz.net         208.214.24.5           united-arab-motors         dn2.4biz.net         208.214.24.5           united-arab-motors         dn2.4biz.net         208.214.24.5           united-arab-motors         dn2.4biz.net         208.214.24.10           wescosa         dn1.4biz.net         208.214.24.10           xml-asg         dn1.4biz.net         208.214.24.10           xml-asg         dn2.4biz.net         208.214.24.10           xml-asg         dn2.4biz.net   |                    |                        |                 |
| ssoc-asg         dn2.4biz.net         208.214.24.10           stc         nsl.sa.medu.net         206.241.58.240           stc         nslstc.sa.medu.net         206.241.58.120           stc         nslstc.sa.medu.net         212.26.19.252           surfnet         ags.ga.erg.sri.com         192.26.244.1           surfnet         ags-fs2.ga.erg.sri.com         192.26.244.1           tughrastamps         ns.siteprotect.com         209.100.98.10           tughrastamps         ns2.siteprotect.com         209.224.144.2           uam         dn1.4biz.net         208.214.24.5           uam         dn2.4biz.net         208.214.24.5           united-arab-motors         dn1.4biz.net         208.214.24.10           wescosa         dn1.4biz.net         208.214.24.5           wescosa         dn1.4biz.net         208.214.24.5           wescosa         dn2.4biz.net         208.214.24.5           xml-asg         dn1.4biz.net         208.214.24.10           ygosaibi         dns1.american-data.net         208.214.24.10           ygosaibi         dns1.american-data.net         198.85.227.254           zahrani         ns.nameservers.net         207.158.192.40           zahrani         ns3.nameservers.net   |                    |                        |                 |
| stc         ns1.sa.medu.net         206.241.58.240           stc         ns1stc.sa.medu.net         212.26.19.252           surfnet         ags.ga.erg.sri.com         192.26.244.1           surfnet         ags-fs2.ga.erg.sri.com         192.26.244.140           tughrastamps         ns.siteprotect.com         209.100.98.10           tughrastamps         ns2.siteprotect.com         209.224.144.2           uam         dn1.4biz.net         208.214.24.5           uam         dn2.4biz.net         208.214.24.5           united-arab-motors         dn1.4biz.net         208.214.24.5           united-arab-motors         dn2.4biz.net         208.214.24.5           wescosa         dn1.4biz.net         208.214.24.5           wescosa         dn1.4biz.net         208.214.24.5           wescosa         dn2.4biz.net         208.214.24.5           wall-asg         dn1.4biz.net         208.214.24.5           ygosaibi         dns1.american-data.net         208.214.24.5           ygosaibi         dns2.american-data.net         198.85.227.254           zahrani         ns2.nameservers.net         207.158.192.40           zahrani         ns3.nameservers.net         209.41.31.1           zajil         faith.mynet.net   |                    |                        |                 |
| stc         nslstc.sa.medu.net         206.241.58.120           stc         nslstc.sa.medu.net         212.26.19.252           surfnet         ags.ga.erg.sri.com         192.26.244.1           surfnet         ags-fs2.ga.erg.sri.com         192.26.244.140           tughrastamps         ns.siteprotect.com         209.100.98.10           tughrastamps         ns2.siteprotect.com         209.224.144.2           uam         dn1.4biz.net         208.214.24.5           uam         dn2.4biz.net         208.214.24.5           united-arab-motors         dn1.4biz.net         208.214.24.5           united-arab-motors         dn2.4biz.net         208.214.24.10           wescosa         dn1.4biz.net         208.214.24.5           wescosa         dn2.4biz.net         208.214.24.5           wescosa         dn2.4biz.net         208.214.24.5           xml-asg         dn1.4biz.net         208.214.24.10           ygosaibi         dns1.american-data.net         204.69.248.194           ygosaibi         dns2.american-data.net         204.69.248.194           ygosaibi         dns2.ameservers.net         207.158.192.40           zahrani         ns3.nameservers.net         209.41.31.13           zahrani         ns4.mci.net   | =                  |                        |                 |
| stc         nslstc.sa.medu.net         212.26.19.252           surfnet         ags.ga.erg.sri.com         192.26.244.1           surfnet         ags-fs2.ga.erg.sri.com         192.26.244.140           tughrastamps         ns.siteprotect.com         209.100.98.10           tughrastamps         ns2.siteprotect.com         209.224.144.2           uam         dn1.4biz.net         208.214.24.5           uam         dn2.4biz.net         208.214.24.5           united-arab-motors         dn1.4biz.net         208.214.24.5           united-arab-motors         dn2.4biz.net         208.214.24.5           wescosa         dn1.4biz.net         208.214.24.5           wescosa         dn1.4biz.net         208.214.24.5           wescosa         dn2.4biz.net         208.214.24.5           xml-asg         dn1.4biz.net         208.214.24.5           xml-asg         dn2.4biz.net         208.214.24.5           xml-asg         dn2.4biz.net         208.214.24.5           xml-asg         dn2.american-data.net         204.69.248.194           ygosaibi         dns1.american-data.net         198.85.227.254           zahrani         ns2.ameservers.net         209.41.31.13           zahrani         ns3.nameservers.net <th< td=""><td>STC</td><td>nsl.sa.medu.net</td><td></td></th<>   | STC                | nsl.sa.medu.net        |                 |
| surfnet         ags.ga.erg.sri.com         192.26.244.1           surfnet         ags-fs2.ga.erg.sri.com         192.26.244.140           tughrastamps         ns.siteprotect.com         209.100.98.10           tughrastamps         ns2.siteprotect.com         209.224.144.2           uam         dn1.4biz.net         208.214.24.5           uam         dn2.4biz.net         208.214.24.10           united-arab-motors         dn1.4biz.net         208.214.24.5           united-arab-motors         dn1.4biz.net         208.214.24.10           wescosa         dn1.4biz.net         208.214.24.5           wescosa         dn2.4biz.net         208.214.24.5           wescosa         dn1.4biz.net         208.214.24.5           xml-asg         dn1.4biz.net         208.214.24.5           xml-asg         dn2.4biz.net         208.214.24.5           xml-asg         dn2.4merican-data.net         209.41.31.13  |                    |                        |                 |
| surfnet         ags-fs2.ga.erg.sri.com         192.26.244.140           tughrastamps         ns.siteprotect.com         209.100.98.10           tughrastamps         ns2.siteprotect.com         209.224.144.2           uam         dn1.4biz.net         208.214.24.5           uam         dn2.4biz.net         208.214.24.10           united-arab-motors         dn1.4biz.net         208.214.24.5           united-arab-motors         dn2.4biz.net         208.214.24.10           wescosa         dn1.4biz.net         208.214.24.10           wescosa         dn2.4biz.net         208.214.24.5           well-asg         dn1.4biz.net         208.214.24.10           ygosaibi         dn2.4biz.net         208.214.24.5           xml-asg         dn1.4biz.net         208.214.24.5           xml-asg         dn2.4biz.net         208.214.24.5           xml-asg         dn2.4biz.net         208.214.24.10           ygosaibi         dns1.american-data.net         204.69.248.194           ygosaibi         dns2.amerservers.net         207.158.192.40           zahrani         ns.nameservers.net         207.158.192.40           zahrani         ns3.nameservers.net         209.41.31.13           zajil         faith.mynet.net <t< td=""><td></td><td></td><td></td></t<>  |                    |                        |                 |
| tughrastamps         ns.siteprotect.com         209.100.98.10           tughrastamps         ns2.siteprotect.com         209.224.144.2           uam         dn1.4biz.net         208.214.24.5           uam         dn2.4biz.net         208.214.24.10           united-arab-motors         dn1.4biz.net         208.214.24.5           united-arab-motors         dn2.4biz.net         208.214.24.5           wescosa         dn1.4biz.net         208.214.24.5           wescosa         dn1.4biz.net         208.214.24.5           xml-asg         dn1.4biz.net         208.214.24.10           ygosaibi         dns1.american-data.net         204.69.248.194           ygosaibi         dns1.american-data.net         198.85.227.254           zahrani         ns.nameservers.net         207.158.192.40           zahrani         ns2.nameservers.net         209.41.31.13           zahrani         ns3.nameservers.net         209.41.31.14           zajil         faith.mynet.net         208.162.200.4           zajil         ns4.mci.net         204.69.248.194           zamilglass         dns1.american-data.net         204.69.248.194           zedan         ns0.demon.co.uk         158.152.1.65           zedan         ns1.demon.co.uk  |                    |                        |                 |
| tughrastamps       ns2.siteprotect.com       209.224.144.2         uam       dn1.4biz.net       208.214.24.5         uam       dn2.4biz.net       208.214.24.10         united-arab-motors       dn1.4biz.net       208.214.24.5         united-arab-motors       dn2.4biz.net       208.214.24.5         wescosa       dn1.4biz.net       208.214.24.10         wescosa       dn2.4biz.net       208.214.24.5         wml-asg       dn1.4biz.net       208.214.24.10         ygosaibi       dns1.american-data.net       208.214.24.10         ygosaibi       dns2.american-data.net       208.214.24.10         ygosaibi       dns2.american-data.net       209.248.194         zahrani       ns.nameservers.net       207.158.192.40         zahrani       ns2.nameservers.net       209.41.31.13         zahrani       ns3.nameservers.net       209.41.31.13         zajil       faith.mynet.net       208.162.200.4         zajil       ns4.mci.net       204.70.49.234         zamilglass       dns1.american-data.net       204.69.248.194         zedan       ns0.demon.co.uk       158.152.1.65         zedan       ns1.demon.co.uk       158.152.1.193         zedan-consultants       dns2.american-da   |                    |                        |                 |
| uam         dn1.4biz.net         208.214.24.5           uam         dn2.4biz.net         208.214.24.10           united-arab-motors         dn1.4biz.net         208.214.24.5           united-arab-motors         dn2.4biz.net         208.214.24.10           wescosa         dn1.4biz.net         208.214.24.10           wescosa         dn2.4biz.net         208.214.24.10           xml-asg         dn1.4biz.net         208.214.24.5           xml-asg         dn2.4biz.net         208.214.24.10           ygosaibi         dns1.american-data.net         204.69.248.194           ygosaibi         dns2.american-data.net         198.85.227.254           zahrani         ns.nameservers.net         207.158.192.40           zahrani         ns2.nameservers.net         209.41.31.13           zahrani         ns3.nameservers.net         209.41.31.13           zahrani         ns3.nameservers.net         209.41.31.14           zajil         faith.mynet.net         208.162.200.4           zajil         ns4.mci.net         204.70.49.234           zamilglass         dns1.american-data.net         204.69.248.194           zedan         ns0.demon.co.uk         158.152.1.65           zedan         ns1.demon.co.uk         158.1  |                    |                        |                 |
| uam       dn2.4biz.net       208.214.24.10         united-arab-motors       dn1.4biz.net       208.214.24.5         united-arab-motors       dn2.4biz.net       208.214.24.10         wescosa       dn1.4biz.net       208.214.24.5         wescosa       dn2.4biz.net       208.214.24.5         wml-asg       dn1.4biz.net       208.214.24.5         xml-asg       dn2.4biz.net       208.214.24.10         ygosaibi       dns1.american-data.net       204.69.248.194         ygosaibi       dns2.american-data.net       198.85.227.254         zahrani       ns.nameservers.net       207.158.192.40         zahrani       ns2.nameservers.net       209.41.31.13         zahrani       ns3.nameservers.net       209.41.31.13         zahrani       ns3.nameservers.net       209.41.31.14         zajil       faith.mynet.net       208.162.200.4         zajil       ns4.mci.net       204.70.49.234         zamilglass       dns1.american-data.net       198.85.227.254         zedan       ns0.demon.co.uk       158.152.1.65         zedan       ns1.demon.co.uk       158.152.1.193         zedan-consultants       dns1.american-data.net       204.69.248.194         zedan-consultants       dns2   |                    |                        |                 |
| united-arab-motors       dn1.4biz.net       208.214.24.5         united-arab-motors       dn2.4biz.net       208.214.24.10         wescosa       dn1.4biz.net       208.214.24.5         wescosa       dn2.4biz.net       208.214.24.10         xml-asg       dn1.4biz.net       208.214.24.10         ygosaibi       dn2.4biz.net       208.214.24.10         ygosaibi       dns1.american-data.net       204.69.248.194         ygosaibi       dns2.american-data.net       198.85.227.254         zahrani       ns.nameservers.net       207.158.192.40         zahrani       ns2.nameservers.net       209.41.31.13         zahrani       ns3.nameservers.net       209.41.31.14         zajil       faith.mynet.net       208.162.200.4         zajil       ns4.mci.net       204.70.49.234         zamilglass       dns1.american-data.net       204.69.248.194         zamilglass       dns2.american-data.net       198.85.227.254         zedan       ns0.demon.co.uk       158.152.1.165         zedan       ns2.demon.net       207.69.194.186         zedan-consultants       dns1.american-data.net       204.69.248.194         zedan-consultants       dns2.american-data.net       198.85.227.254         e  |                    |                        |                 |
| united-arab-motors       dn2.4biz.net       208.214.24.10         wescosa       dn2.4biz.net       208.214.24.5         wescosa       dn2.4biz.net       208.214.24.10         xml-asg       dn1.4biz.net       208.214.24.5         xml-asg       dn2.4biz.net       208.214.24.10         ygosaibi       dns1.american-data.net       204.69.248.194         ygosaibi       dns2.american-data.net       198.85.227.254         zahrani       ns.nameservers.net       207.158.192.40         zahrani       ns2.nameservers.net       209.41.31.13         zahrani       ns3.nameservers.net       209.41.31.14         zajil       faith.mynet.net       208.162.200.4         zajil       ns4.mci.net       204.70.49.234         zamilglass       dns1.american-data.net       204.69.248.194         zamilglass       dns2.american-data.net       198.85.227.254         zedan       ns0.demon.co.uk       158.152.1.165         zedan       ns2.demon.net       207.69.194.186         zedan-consultants       dns1.american-data.net       204.69.248.194         zedan-consultants       dns2.american-data.net       198.85.227.254    edu.sa edu.sa 198.77.88.3  |                    |                        |                 |
| wescosa       dn1.4biz.net       208.214.24.5         wescosa       dn2.4biz.net       208.214.24.10         xml-asg       dn1.4biz.net       208.214.24.5         xml-asg       dn2.4biz.net       208.214.24.10         ygosaibi       dns1.american-data.net       204.69.248.194         ygosaibi       dns2.american-data.net       198.85.227.254         zahrani       ns.nameservers.net       207.158.192.40         zahrani       ns2.nameservers.net       209.41.31.13         zahrani       ns3.nameservers.net       209.41.31.14         zajil       faith.mynet.net       208.162.200.4         zajil       ns4.mci.net       204.70.49.234         zamilglass       dns1.american-data.net       204.69.248.194         zamilglass       dns2.american-data.net       198.85.227.254         zedan       ns0.demon.co.uk       158.152.1.65         zedan       ns1.demon.co.uk       158.152.1.193         zedan-consultants       dns1.american-data.net       204.69.248.194         zedan-consultants       dns2.american-data.net       198.85.227.254         edu.sa       edu.sa       198.77.88.3   |                    |                        |                 |
| wescosa       dn2.4biz.net       208.214.24.10         xml-asg       dn1.4biz.net       208.214.24.5         xml-asg       dn2.4biz.net       208.214.24.10         ygosaibi       dns1.american-data.net       204.69.248.194         ygosaibi       dns2.american-data.net       198.85.227.254         zahrani       ns.nameservers.net       207.158.192.40         zahrani       ns2.nameservers.net       209.41.31.13         zahrani       ns3.nameservers.net       209.41.31.14         zajil       faith.mynet.net       208.162.200.4         zajil       ns4.mci.net       204.70.49.234         zamilglass       dns1.american-data.net       204.69.248.194         zamilglass       dns2.american-data.net       198.85.227.254         zedan       ns0.demon.co.uk       158.152.1.65         zedan       ns1.demon.co.uk       158.152.1.193         zedan-consultants       dns1.american-data.net       207.69.194.186         zedan-consultants       dns2.american-data.net       198.85.227.254         edu.sa         edu.sa       ns1.kacst.EDU.sa       198.77.88.3  | united-arab-motors |                        |                 |
| xml-asg       dn1.4biz.net       208.214.24.5         xml-asg       dn2.4biz.net       208.214.24.10         ygosaibi       dns1.american-data.net       204.69.248.194         ygosaibi       dns2.american-data.net       198.85.227.254         zahrani       ns.nameservers.net       207.158.192.40         zahrani       ns2.nameservers.net       209.41.31.13         zahrani       ns3.nameservers.net       209.41.31.14         zajil       faith.mynet.net       208.162.200.4         zajil       ns4.mci.net       204.70.49.234         zamilglass       dns1.american-data.net       204.69.248.194         zamilglass       dns2.american-data.net       198.85.227.254         zedan       ns0.demon.co.uk       158.152.1.65         zedan       ns1.demon.co.uk       158.152.1.193         zedan-consultants       dns1.american-data.net       204.69.248.194         zedan-consultants       dns2.american-data.net       198.85.227.254         edu.sa       edu.sa       ns1.kacst.EDU.sa       198.77.88.3   | wescosa            |                        |                 |
| xml-asg       dn2.4biz.net       208.214.24.10         ygosaibi       dns1.american-data.net       204.69.248.194         ygosaibi       dns2.american-data.net       198.85.227.254         zahrani       ns.nameservers.net       207.158.192.40         zahrani       ns2.nameservers.net       209.41.31.13         zahrani       ns3.nameservers.net       209.41.31.14         zajil       faith.mynet.net       208.162.200.4         zajil       ns4.mci.net       204.70.49.234         zamilglass       dns1.american-data.net       204.69.248.194         zedan       ns0.demon.co.uk       158.152.1.65         zedan       ns1.demon.co.uk       158.152.1.193         zedan       ns2.demon.net       207.69.194.186         zedan-consultants       dns1.american-data.net       204.69.248.194         zedan-consultants       dns2.american-data.net       198.85.227.254          edu.sa         edu.sa       ns1.kacst.EDU.sa       198.77.88.3  |                    |                        |                 |
| ygosaibi       dns1.american-data.net       204.69.248.194         ygosaibi       dns2.american-data.net       198.85.227.254         zahrani       ns.nameservers.net       207.158.192.40         zahrani       ns2.nameservers.net       209.41.31.13         zahrani       ns3.nameservers.net       209.41.31.14         zajil       faith.mynet.net       208.162.200.4         zajil       ns4.mci.net       204.70.49.234         zamilglass       dns1.american-data.net       204.69.248.194         zamilglass       dns2.american-data.net       198.85.227.254         zedan       ns0.demon.co.uk       158.152.1.65         zedan       ns1.demon.co.uk       158.152.1.193         zedan-consultants       dns1.american-data.net       207.69.194.186         zedan-consultants       dns2.american-data.net       198.85.227.254         edu.sa         edu.sa       ns1.kacst.EDU.sa       198.77.88.3  |                    |                        |                 |
| ygosaibi       dns2.american-data.net       198.85.227.254         zahrani       ns.nameservers.net       207.158.192.40         zahrani       ns2.nameservers.net       209.41.31.13         zahrani       ns3.nameservers.net       209.41.31.14         zajil       faith.mynet.net       208.162.200.4         zajil       ns4.mci.net       204.70.49.234         zamilglass       dns1.american-data.net       204.69.248.194         zamilglass       dns2.american-data.net       198.85.227.254         zedan       ns0.demon.co.uk       158.152.1.65         zedan       ns1.demon.co.uk       158.152.1.193         zedan-consultants       dns1.american-data.net       207.69.194.186         zedan-consultants       dns2.american-data.net       198.85.227.254         edu.sa       edu.sa       ns1.kacst.EDU.sa       198.77.88.3   |                    |                        |                 |
| zahrani       ns.nameservers.net       207.158.192.40         zahrani       ns2.nameservers.net       209.41.31.13         zahrani       ns3.nameservers.net       209.41.31.14         zajil       faith.mynet.net       208.162.200.4         zajil       ns4.mci.net       204.70.49.234         zamilglass       dns1.american-data.net       204.69.248.194         zamilglass       dns2.american-data.net       198.85.227.254         zedan       ns0.demon.co.uk       158.152.1.65         zedan       ns1.demon.co.uk       158.152.1.193         zedan-consultants       dns1.american-data.net       207.69.194.186         zedan-consultants       dns2.american-data.net       198.85.227.254         edu.sa       edu.sa       ns1.kacst.EDU.sa       198.77.88.3  |                    |                        |                 |
| zahrani       ns2.nameservers.net       209.41.31.13         zahrani       ns3.nameservers.net       209.41.31.14         zajil       faith.mynet.net       208.162.200.4         zajil       ns4.mci.net       204.70.49.234         zamilglass       dns1.american-data.net       204.69.248.194         zamilglass       dns2.american-data.net       198.85.227.254         zedan       ns0.demon.co.uk       158.152.1.65         zedan       ns1.demon.co.uk       158.152.1.193         zedan       ns2.demon.net       207.69.194.186         zedan-consultants       dns1.american-data.net       204.69.248.194         zedan-consultants       dns2.american-data.net       198.85.227.254         edu.sa         edu.sa       ns1.kacst.EDU.sa       198.77.88.3   | ygosaibi           | dns2.american-data.net |                 |
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| edu.sa. | ns.eu.net             | 192.16.202.11   |
| edu.sa. | nsl.isu.net.sa        | 212.26.18.3     |
| ipa     | nsl.ipa               | 198.77.102.58   |
| kaau    | ns1.kaau              | 198.77.102.44   |
| kaau    | kaaugw.kaau           | 198.77.102.41   |
| kacst   | ns1.kacst.edu.sa      | 198.77.88.3     |
| kacst   | ns2.kacst.edu.sa      | 198.77.88.2     |
| kacst   | rip.psg.com           | 147.28.0.39     |
| kfshrc  | chic.kfshrc.EDU.sa    | 199.75.90.33    |
| kfshrc  | imedl.saudi.net       | 199.75.86.30    |
| kfshrc  | kfshhub.kfshrc.EDU.sa | 199.75.90.34    |
| kfu     | ns1.kfu               | 198.77.102.37   |
| kfupm   | ns1.kfupm             | 198.77.102.26   |
| kfupm   | ns2.kfupm             | 198.77.102.27   |
| ksu     | nsl.ksu               | 198.77.102.18   |
| ksu     | ns2.ksu               | 198.77.102.20   |
| uqu     | ns1.uqu               | 198.77.102.50   |
|         |                       |                 |
| gov.sa  |                       | 100 88 00 0     |
| gov.sa. | nsl.kacst.edu.sa      | 198.77.88.3     |
| gov.sa. | ns.nixu.net           | 193.209.237.29  |
| gov.sa. | rip.psg.com           | 147.28.0.39     |
| gov.sa. | munnari.oz.au         | 128.250.1.21    |
| gov.sa. | ns.eu.net             | 192.16.202.11   |
| gov.sa. | nsl.isu.net.sa        | 212.26.18.3     |
| makkah  | dns0.amxstudios.com   | 195.238.161.131 |
| makkah  | dns0.sonnet.co.uk     | 195.238.160.225 |
| moc     | ns1.naseej.net        | 212.26.50.35    |
| moc     | ns2.naseej.net        | 212.26.50.39    |
| mohe    | ns.mohe.gov.sa        | 198.77.102.138  |
| mohe    | ns1.mohe.gov.sa       | 198.77.102.137  |
| moia    | faith.mynet.net       | 208.162.200.4   |
| moia    | jaguar.mynet.net      | 208.162.200.3   |
| moia    | ns4.cw.net            | 204.70.49.234   |
| sama    | ns1.homepage.net      | 195.224.109.2   |
| sama    | ns2.homepage.net      | 194.216.216.193 |
| samofa  | ns0.bt.net            | 194.72.6.51     |
| samofa  | ns1.bt.net            | 194.72.6.52     |
| _       |                       |                 |
| med.sa  |                       |                 |
| med.sa. | nsl.isu.net.sa        | 212.26.18.3     |
| med.sa. | ns1.kacst.edu.sa      | 198.77.88.3     |
| med.sa. | ns.nixu.net           | 193.209.237.29  |
| med.sa. | munnari.oz.au         | 128.250.1.21    |
| med.sa. | ns.eu.net             | 192.16.202.11   |
| net.sa  |                       |                 |
| net.sa. | nsl.isu.net.sa        | 212.26.18.3     |
| net.sa. | nsl.kacst.edu.sa      | 198.77.88.3     |
| net.sa. | ns.nixu.net           | 193.209.237.29  |
| net.sa. | rip.psg.com           | 147.28.0.39     |
|         | T - E = 2             |                 |

| net.sa.       | munnari.oz.au          | 128.250.1.21    |
|---------------|------------------------|-----------------|
| net.sa.       | ns.eu.net              | 192.16.202.11   |
| arab          | netral.arab.net        | 194.73.200.1    |
| arab          | netra2.arab.net        | 194.73.200.2    |
| internic      | nsl.isu.net.sa         | 212.26.18.3     |
| internic      | ns1.kacst.edu.sa       | 198.77.88.3     |
| isu           | nsl.isu.net.sa         | 212.26.18.3     |
| isu           | nsl.kacst.edu.sa       | 198.77.88.3     |
| nesma         | ns1.nesma.net.sa       | 212.26.53.10    |
|               |                        | 212.26.53.10    |
| nesma         | ns2.nesma.net.sa       | 212.26.33.11    |
| nour          | NS1.ISU.net.sa         | 212.26.18.3     |
| nour          | ns1.nour.net.sa        |                 |
| nour          | ns2.nour.net.sa        | 212.26.46.3     |
| ogertel       | cordoba.cyberia.net.lb | 207.240.177.153 |
| ogertel       | nsel.cyberia.net.lb    | 195.112.195.53  |
| prime         | ns1.allinfosys.com     | 207.55.155.2    |
| prime         | ns2.allinfosys.com     | 209.44.59.2     |
| saudinic      | ns1.isu.net.sa         | 212.26.18.3     |
| saudinic      | ns1.kacst.edu.sa       | 198.77.88.3     |
| shabakah      | mail.shabakah.com      | 193.188.109.67  |
| shabakah      | www.shabakah.com       | 193.188.109.68  |
| shaheer       | nsl.sitehosting.net    | 208.232.92.2    |
| shaheer       | ns3.sitehosting.net    | 208.227.179.3   |
| sol           | ns1.bestlink.com       | 192.41.1.109    |
| sol           | ns2.bestlink.com       | 192.41.2.109    |
|               |                        |                 |
| org.sa        |                        |                 |
| org.sa.       | munnari.oz.au          | 128.250.1.21    |
| org.sa.       | ns.eu.net              | 192.16.202.11   |
| org.sa.       | ns.nixu.net            | 193.209.237.29  |
| org.sa.       | nsl.isu.net.sa         | 212.26.18.3     |
| org.sa.       | ns1.kacst.edu.sa       | 198.77.88.3     |
| org.sa.       | rip.psg.com            | 147.28.0.39     |
| gsmo          | faith.mynet.net        | 208.162.200.4   |
| gsmo          | ns4.mci.net            | 204.70.49.234   |
| islam         | faith.mynet.net        | 208.162.200.4   |
| islam         | jaguar.mynet.net       | 208.162.200.3   |
| islam         | ns4.cw.net             | 204.70.49.234   |
| pma           | ns.nameservers.net     | 207.158.192.40  |
| pma           | ns2.nameservers.net    | 209.41.31.13    |
| quran         | faith.mynet.net        | 208.162.200.4   |
| quran         | jaguar.mynet.net       | 208.162.200.3   |
| <del>-</del>  | ns4.cw.net             | 204.70.49.234   |
| quran<br>saso | faith.mynet.net        | 204.70.49.234   |
|               | ns4.mci.net            | 204.70.49.234   |
| saso          | dns1scs.sa.medu.net    | 204.70.49.234   |
| SCS           | kfshhub.kfshrc.edu.sa  | 199.75.90.34    |
| SCS           |                        |                 |
| SCS           | ns1.sa.medu.net        | 206.241.58.240  |
|               |                        | 206.241.58.120  |
| mah ma        |                        |                 |
| sch.sa        |                        | 100 77 00 2     |
| sch.sa.       | ns1.kacst.edu.sa       | 198.77.88.3     |
| sch.sa.       | ns.nixu.net            | 193.209.237.29  |
|               |                        |                 |

| sch.sa. | munnari.oz.au  | 128.250.1.21  |  |
|---------|----------------|---------------|--|
| sch.sa. | ns.eu.net      | 192.16.202.11 |  |
| sch sa  | ns1 isu net sa | 212 26 18 3   |  |

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| Tab I  | SAUDI INTRANETS |

| AAS-1           | 212.26.48.0 | - | 212.26.52.255  | Arabian Advanced Systems, Riyadh ( <i>Al-Naseej</i> ) |
|-----------------|-------------|---|----------------|---|
| ACSC-1          | 212.26.66.0 | - | 212.26.66.255  | Arabic Computer System Co., Riyadh                    |
| ALALAMIAH-1     | 212.26.67.0 | _ | 212.26.67.255  | Al-Alamiah Networks, Riyadh                           |
| ALJAZIRAH-1     | 212.26.64.0 | _ | 212.26.65.255  | Al-Jazirah Corporation, Press                         |
|                 |             |   |                | Printing & Publishing, Riyadh                         |
| ATHEEB-1        | 212.26.58.0 | _ | 212.26.59.255  | Atheeb Trading Co. Ltd., Riyadh                       |
| AWALNET-1       | 212.26.75.0 | _ | 212.26.75.255  | Al-Faisalia Group, Riyadh                             |
| CIDC-1          | 212.26.62.0 |   | 212.26.62.255  | Commercial Investment and                             |
|                 |             |   |                | Development Co., Dhahran                              |
| DALLH-1         | 212.26.60.0 | _ | 212.26.61.255  | Dallah Media Production, Jeddah                       |
| EAE-1           | 212.26.36.0 | _ | 212.26.39.255  | EAE, Riyadh   |
| EC-1            | 212.26.74.0 | _ | 212.26.74.255  | Electronic Concepts Co., Riyadh                       |
| GULFNET-1       | 212.26.73.0 |   | 212.26.73.255  | GulfNet - Zajil ISP, Riyadh                           |
| ICC-1           | 212.26.68.0 |   | 212.26.68.255  | International Computer Company                        |
|                 |             |   |                | Ltd., Jeddah  |
| ISDB-1          | 212.26.32.0 | _ | 212.26.35.255  | Islamic Development Bank,                             |
|                 |             |   |                | Jeddah  |
| ISU-1           | 212.26.18.0 | _ | 212.26.18.255  | Internet Service Unit, KACST                          |
| ISU-2           | 212.26.19.0 | _ | 212.26.19.255  | Internet Service Unit, KACST                          |
| ISU-3           | 212.26.63.0 | _ | 212.26.63.255  | Internet Service Unit, KACST                          |
| JERAISY-1       | 212.26.72.0 | _ | 212.26.72.255  | Jeraisy Group, Riyadh                                 |
| KACST-1         | 212.26.40.0 | _ | 212.26.45.255  | King Abdulaziz City for Science                       |
|                 |             |   |                | and Technology, Riyadh                                |
| KFSH-1          | 195.128.0.0 | - | 195.128.16.255 | King Faisal Specialist Hospital                       |
|                 |             |   |                | and Research Centre, Riyadh                           |
| KFU-1           | 212.26.20.0 | - | 212.26.31.255  | King Faisal University, Hofuf                         |
| KFUPM-1         | 212.26.0.0  | _ | 212.26.4.255   | King Fahd University for                              |
|                 |             |   |                | Petroleum and Minerals, Dhahran                       |
| MEDUNET-1       | 212.26.69.0 | - | 212.26.69.255  | Sultan Bin Abdulaziz Foundation                       |
|                 |             |   |                | Program for Medical and                               |
|                 |             |   |                | Educational, Riyadh                                   |
| MOHE-1          | 212.26.5.0  | - | 212.26.5.255   | Ministry of Higher Education,                         |
|                 |             |   |                | Riyadh  |
| NESMA-1         | 212.26.53.0 | _ | 212.26.55.255  | National Engineering Services                         |
|                 |             |   |                | and Marketing Company, Riyadh                         |
| NOURNET-1       | 212.26.46.0 | - | 212.26.47.255  | Nour Trading Co. Ltd., Riyadh                         |
| SA-KACST-980615 | 212.26.0.0  | _ | 212.26.127.255 | Saudi Network Information and                         |
|                 |             |   |                | Operations Center, Riyadh                             |
| SAMIR-1         | 212.26.56.0 | - | 212.26.57.255  | Samir Photographic Supplies Co.                       |
|                 |             |   |                | Ltd., Jeddah  |
| SAUDI-COL       | 198.77.88.0 | - | 198.77.103.255 | Washington Coordinating Center                        |
| SAUDIOGER-1     | 212.26.71.0 | _ | 212.26.71.255  | Saudi Oger Ltd., Riyadh                               |
| SFH-1           | 212.26.6.0  | _ | 212.26.11.255  | Security Forces Hospital,                             |
|                 |             |   |                | Riyadh  |
| SHABAKAH-1      | 212.26.70.0 | - | 212.26.70.255  | Al-Rajhi Saudi Group (Al-                             |
|                 |             |   |                | Shabakah), Riyadh                                     |
| UQU-1           | 212.26.12.0 | - | 212.26.17.255  | Ummul Qura University, Makkah                         |
|                 |             |   |                |   |

USUSP-MO-MD-US 199.75.86.0 - 199.75.95.255

Washington Coordination Center-US Universitites/Saudi Project