

# 1<sup>st</sup> Root Server in Saudi Arabia And IPv6 Readiness

واحتك لخدمات الإنترنت  
YOUR INTERNET SERVICES OASIS

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# Agenda

- Why IPv6?
- Sahara Net IPv6 Readiness
- What can “you” do?
- 1<sup>st</sup> DNS Root Server in Saudi Arabia.
- Q & A





# IPv6 Readiness

- In October 2008, I attended **MENOG** meeting in which RIPE talked about IPv6 and why it is important.
- In **February 2009**, established “IPv6 Task Force”.
- **Task Force Goal**: To make Sahara Net ready for IPv6 within year and to educate customers on the need to go with IPv6.
- Task Force: Formed from all concerned departments including:
  - Customer Care
  - Operations
  - NOC
  - Corporate Support
  - And others.
- Task Force took a structured approach to making Sahara Net “IPv6 Ready” and held bi-weekly status meetings.

# IPv6 Readiness



IPv6.Sahara.com

Get Ready for Next Generation Internet



www.sahara.com Guest Book

You are here: Home

search...



Welcome to the IPv6.sahara.com

## WELCOME NOTE

Written by kais1

Wednesday, 02 September 2009 11:14

Sahara Net has always been on the forefront of latest technologies and services. Since our beginnings back in 1994, we were leaders in testing and then applying latest techniques and technologies to keep our organization successful and thriving.

IPv6 is one of the most important challenges facing ISPs and Service Providers today around the world. Over 97% of the Internet today runs on IPv4. The risk arises from the fact when IPv4 new IP addresses are no longer available to new



## Latest News

- [Sahara Net gets IPv6 Certification from IPv6 Forum](#)
- [3 HOW's- A free IT Training by Sahara Net](#)
- [Gogo client Guide](#)
- [IPv6 Access and IPv4 Coexistence](#)
- [Configure static IPv6 networking under RHEL 5.x / Fedora / CentOS Linux](#)

## Latest news on IPv6

IP 6 4 1 1

FOR IPv6 INFORMATION AND KNOWLEDGE (5/2009).

- Since then we have been ready to connect any organization through IPv6.



# IPv6 Readiness

- Did a FREE Seminar on IPv6 and other topics on April 2010 in Riyadh, Jeddah and Khobar (attendees over 200 in each city).
- Sahara Net is a **Certified IPv6 ISP** by “IPv6 Forum”  
<http://www.ipv6forum.org>
- Our IPv6 customers can now put HTML code on their website so that IPv6 customer logo will appear in their website.
- We are proud to be the **One and Only IPv6 certified ISP** by “IPv6 Forum” in Saudi Arabia.



Region/Country

## IPv6 Enabled ISP Web Sites List

Your any query or comment about the validated ISPs as follows is deeply apprec

Status <sup>(*)</sup>	ID	Organization Name	Website	Region/ Country	AS number	IPv6 Block
IPv6 Enabled	I1-SA-00000124	<a href="#">Sahara Net</a>	<a href="http://www.sahara.com">www.sahara.com</a>	SA	41176	2A02:D70::/32

# What U can do?

## You can do a lot!

- **Don't panic!**
- **Spread the word!**
- **Look at your equipment and specify which ones are not IPv6 compatible (IPv6 inventory).**
- **Push vendors to provide compatibility.**
- **Push providers (ISPs, DSPs) to provide IPv6 services.**
- **Get yourself ready for IPv6 knowledge-wise!**
- **When buying any new equipment or software insist on IPv6 compatibility!**

# What U get?

Welcome to RIPE.NET

http://www.ripe.net/

RIPE NCC | LIR Portal | RIPE

About RIPE NCC | Contact | Search | Sitemap

RIPE Network Coordination Centre

Quick Links

Your IP Address is: 2a02:d70:1:1:5166:cbb9:3ed4:1d36

RIPE Database Search

- Internet Resources
- Internet Governance
- RIPE Database
- Training Courses
- Other Services & Projects
- Membership
- Meetings & Events
- Tools and Software
- Press Area
- Mailing Lists
- Jobs
- Reporting Sp Abuse

IPv6 REGISTRATION OPEN

```
C:\Users\kais>nslookup
Default Server: ns1.sahara.com.sa
Address: 212.76.68.200

> www.sahara.com
Server: ns1.sahara.com.sa
Address: 212.76.68.200

Name: www.sahara.com
Addresses: 2a02:d70:10:0:250:56ff:febf:44d5
212.76.68.143

C:\Users\kais>ping www.sahara.com
Pinging www.sahara.com [2a02:d70:10:0:250:56ff:febf:44d5] with 32 bytes of data:
Reply from 2a02:d70:10:0:250:56ff:febf:44d5: time=1ms
Reply from 2a02:d70:10:0:250:56ff:febf:44d5: time<1ms
Reply from 2a02:d70:10:0:250:56ff:febf:44d5: time<1ms
Reply from 2a02:d70:10:0:250:56ff:febf:44d5: time<1ms

Ping statistics for 2a02:d70:10:0:250:56ff:febf:44d5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\Users\kais>

C:\Users\kais>ping www.stc.com.sa
Pinging prod.stc.com.sa [212.118.156.22] with 32 bytes of data:
Control-C
^C

C:\Users\kais>ping www.mobily.com.sa
Pinging www.mobily.com.sa [84.23.97.31] with 32 bytes of data:
Control-C
^C

C:\Users\kais>ping www.awalnet.net.sa
Pinging www.awalnet.net.sa [212.93.192.103] with 32 bytes of data:
Control-C
^C

C:\Users\kais>ping www.yahoo.com
Pinging eu-fp.wa1.b.yahoo.com [87.248.122.122] with 32 bytes of data:
Control-C
^C

C:\Users\kais>ping www.google.com.
Pinging www.l.google.com [66.249.92.104] with 32 bytes of data:
Control-C
^C

C:\Users\kais>ping ipv6.google.com
Pinging ipv6.l.google.com [2a00:1450:8002::93] with 32 bytes of data:
Reply from 2a00:1450:8002::93: time=131ms
Reply from 2a00:1450:8002::93: time=130ms
```

[How can I influence the policies and procedures?](#)

[Do I need to be a member of the RIPE NCC to receive an IPv6 allocation?](#)

[When will IPv4 run out?](#)

[4 October 2010]  
Background Radiation in IPv6

# Sahara Net Hosts 1<sup>st</sup> Root Server in Saudi Arabia

# 1<sup>st</sup> Root Server

- Sahara Net signed agreement with ICANN to host this server (L-Root) in Sahara Net Data Center in Saudi Arabia.
- This is the 1st ROOT DNS Server ever in KSA (and only one so far).
- Faster DNS look ups to customers inside the Kingdom especially to our customers.
- Improved High Availability: When submarine cables are cut, the DNS service continues to work normally.
- The Route-Server IP range is advertised by Sahara through Our National and International up streams.
- Other ISPs will now reach the route-server through our National Backbone and hence faster DNS lookups for Saudi Internet Community
- Sahara acts as a transit ISP to L-Root prefix (199.7.83.0/24)
- IPv6 on the Root Server is active internationally, but being activated Nationally now (up to network providers).



# 1<sup>st</sup> Root Server



# Thank you!

# Q & A

Don't forget to visit:

<http://ipv6.sahara.com/>

