

SaudiNIC's IPv6 Support in Saudi Domain Names

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Agenda

- **About SaudiNIC**
- **What SaudiNIC has done to support IPv6**
- **What You need to do to start using IPv6?**

About SaudiNIC

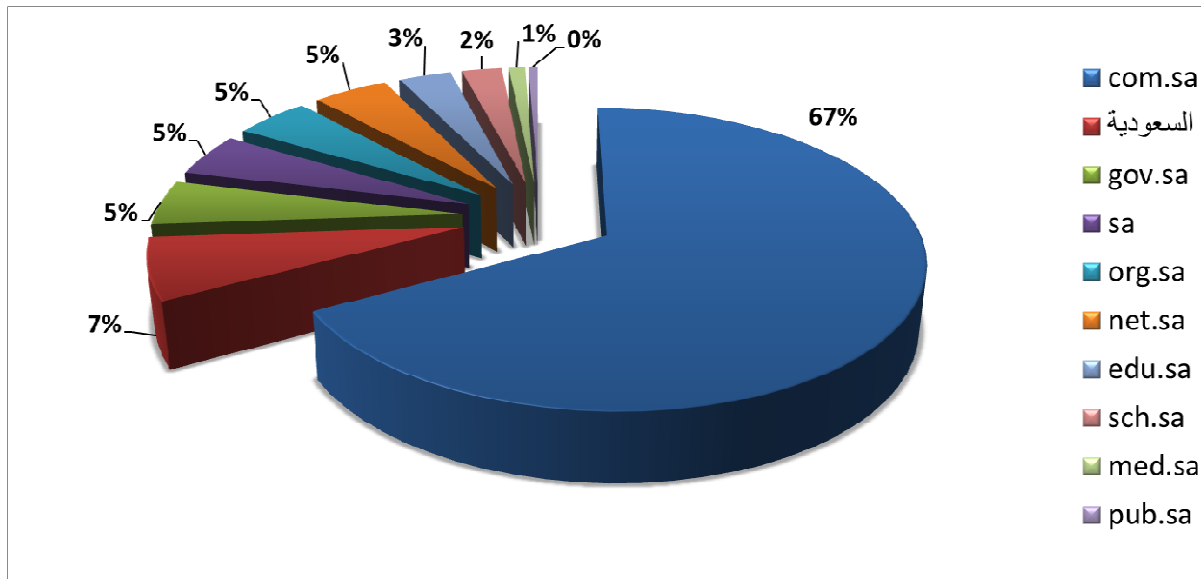
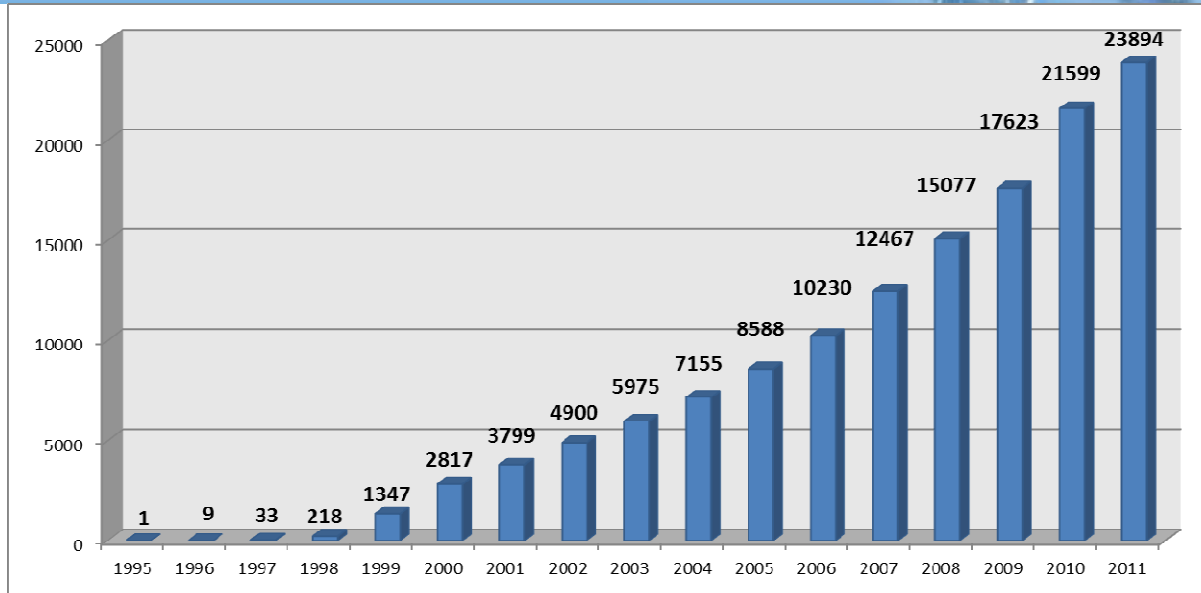
About SaudiNIC



- **Administering** the domain name space under **(.sa)** since 1995 & under **(.السعودية)** since 2010.
- Operated by Communication and Information Technology Commission (**CITC**) governmental org.
- Coordinating with **regional** and **international** bodies in order to present the local community needs
- Leading the local community effort towards supporting **Arabic language** in DNS

About SaudiNIC

Statistics



About SaudiNIC

Latest Achievements



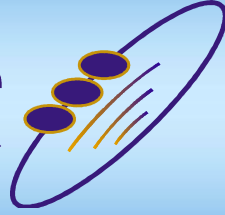
- Full **IPv6 Support** (PI Block from RIPE) – Jan 2010
- Open registration of **Arabic** domain names under “السعودية” (سجل.السعودية) – May 2010
- Open registration of domain names **directly** under “.sa” (nic.sa) – Jan 2011
- Updated the “**Domain Name Regulations**” – Apr 2011
- Updated “**Procedures for Submitting an Objection to Saudi domain names**” (Dispute Resolution) – Apr 2011

About SaudiNIC

What's next



- IDN Emails
- DNSSEC
- Introducing Fees
- Registry-Registrar model



What SaudiNIC has done to support IPv6

What SaudiNIC has done to support IPv6 in Domain names

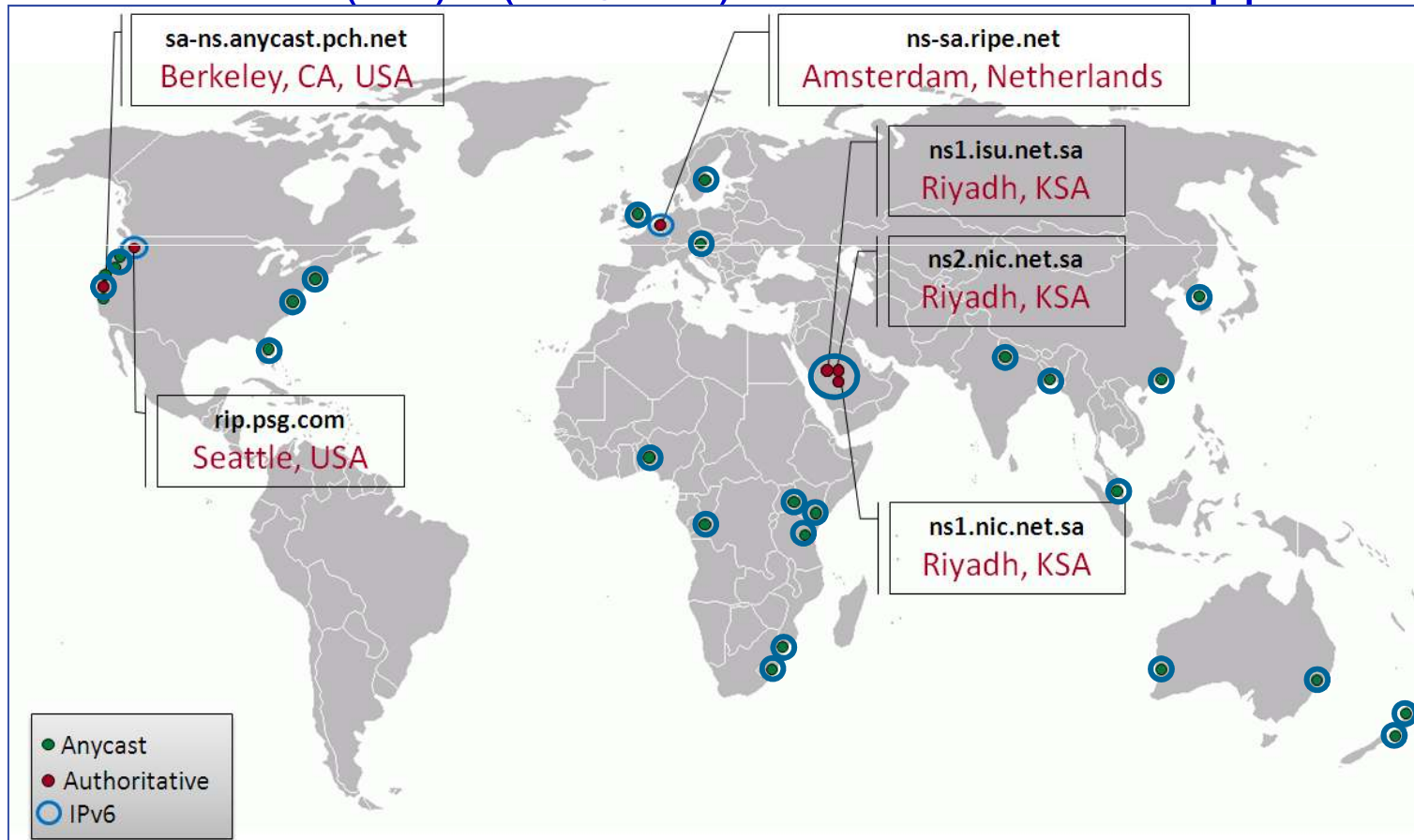
- 1. Name server support**
 - IPv6 support in the ccTLD servers
- 2. Registry support**
 - Frontend ,Backend, Tools and scripts
- 3. Infrastructure support**
 - Network devices, servers and services
- 4. Training and awareness**
 - Staff, Stakeholders

What SaudiNIC has done...



1. Name server support





– All of our (.sa)&(السعودية) ccTLD servers support IPv6



What SaudiNIC has done...




2. Registry support

-  – Frontend (e.g. Application form)
-  – Registry system
-  – Zone-file building (Glue records)
-  – Tools and scripts (e.g. Whois, DNS checker)

Servers names

Primary server	<input type="text" value="ns1.nic.net.sa"/>
IP address	<input type="text" value="86.111.192.9,2001:067c:0130:0410:0000:0000:0000:0009"/>
Secondary server	<input type="text" value="ns2.nic.net.sa"/>
IP address	<input type="text" value="86.111.196.9,2001:067c:0130:0010:0000:0000:0000:0009"/>



What SaudiNIC has done...



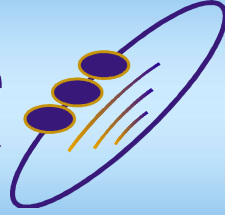
3. Infrastructure support

- ✓ – Equipments and services are IPv6 ready
- ✓ – All software are compliance with IPv6
- ✓ – IPv6 Network
 - PI-IPv6 Block from RIPE
 - Native & Tunneled connections

4. Training and awareness

- ✓ – Registry staff
- ✓ – Stakeholders ... (this event ☐)

هيئة الاتصالات وتقنية المعلومات
Communications and Information Technology Commission



What You need to do to start using IPv6?

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□ Infrastructure support

- Get your **IPv6 block** (PI/PA) from your ISP/LIR
- Configure your **network nodes** and **servers** with IPv6 (e.g. Tunneling, Dual-stack, Translation)
- Configure your **services** (e.g. Web, Mail, DNS, Proxy)

□ DNS

- At least **one** of your name servers should be **reachable** from IPv6 point of view (Addressing & routing)
- Register **glue records** with the Registry if needed
- Configure **reverse delegation** (ip6.arpa) and register them with RIPE

□ Training and awareness

- Train and educate your **staff**

Note: IPv4 & IPv6 are expected to co-exists for long time



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Thank you