IPv6 Support in Saudi Domain Names

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Abdulrahman I. ALGhadir
SaudiNIC – CITC
aghadir@citc.gov.sa, www.nic.sa,
سجل.السعودية
Agenda

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

- Number of registered domain ~ 28000 Domains
About SaudiNIC

Latest Achievements

- Full IPv6 Support (PI Block from RIPE) – Jan 2010

- Open registration of Arabic domain names under "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

- IDN Emails (رسيل.السعودية) – Nov 2011
About SaudiNIC
What’s next

- Registry-Registrar model
- Introducing Fees
- DNSSEC
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

   ![Map of Name Server Support](attachment:image.png)
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)
What SaudiNIC has done...

3. Infrastructure support

- Equipment 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 😊)
What You need to do to start using IPv6?
What You need to do to start using IPv6?

- **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