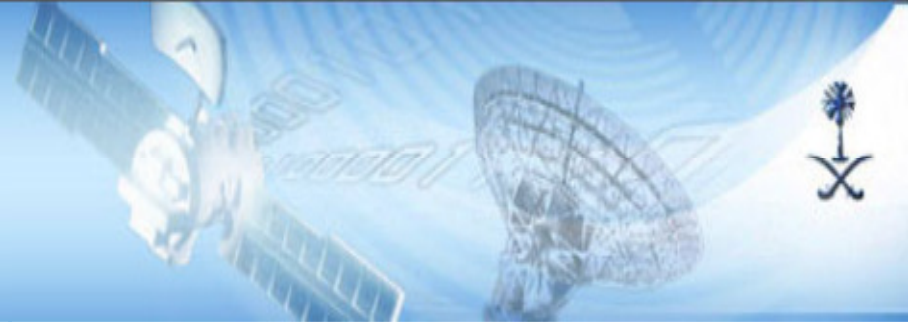
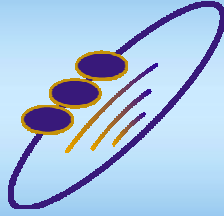


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9th IPv6 Task Force Meeting October 10, 2010

Dr. Ibraheem Al-Furaih
GM, Internet Services, CITC

Meeting Agenda:

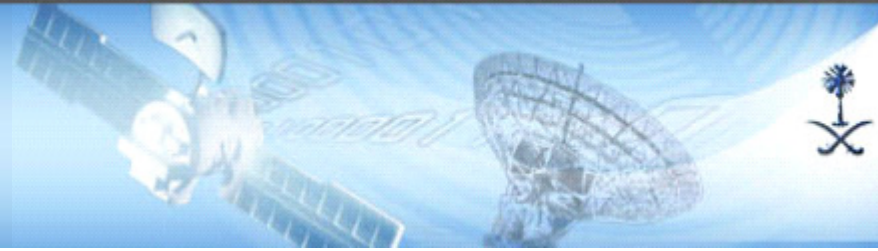
08:30	09:00	Registration
09:00	09:15	Saudi Arabia IPv6 Current Status (CITC)
09:15	09:45	IPv6 Global Overview (Redtech Consulting)
09:45	10:05	Overview of IETF IPv4 - IPv6 Coexistence Mechanisms (STC)
10:05	10:30	IPv6 Security (NXme)
10:30	11:00	Tea Break
11:00	11:30	Migration to IPv6 Challenges (Analysys Mason)
11:30	11:45	1 st DNS Root Server in Saudi Arabia (Sahara)
11:45	12:15	SA National IPv6 Tunnel Broker (CITC)
12:15	12:30	Discussion and Conclusion
12:30	-----	Prayer - Lunch

Recap of Previous IPv6 TaskForce Meetings

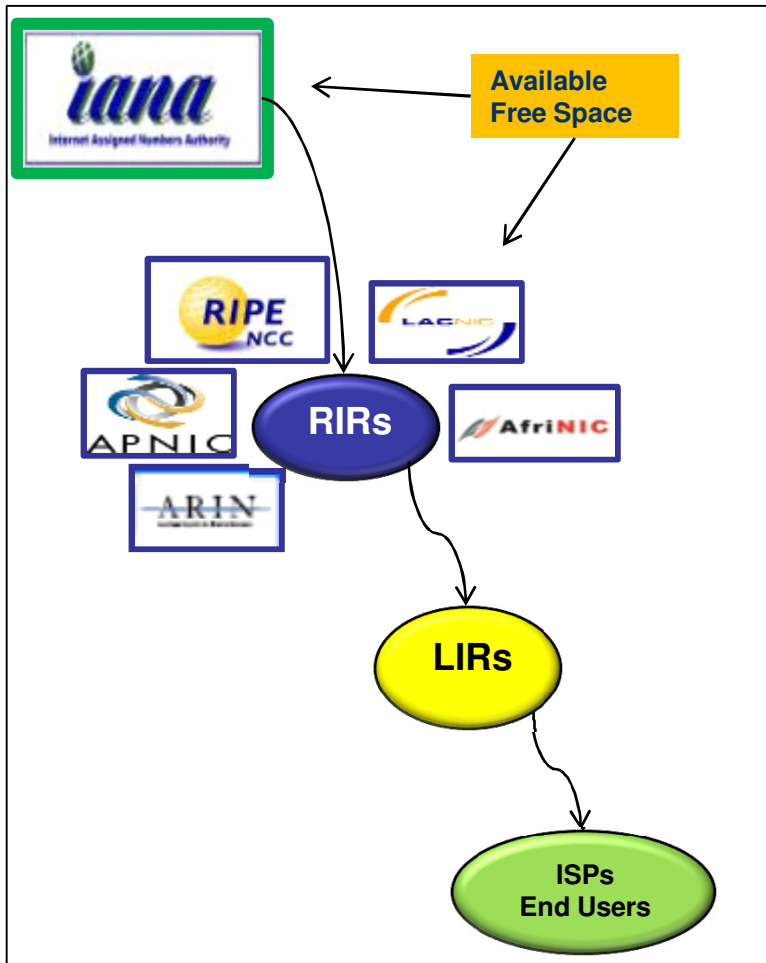


- **Kick-off meeting of the National IPv6 Task Force (July 30, 2008)**
- **2nd Meeting, September 21st, 2008 (CITC)**
- **3rd Meeting, November 18th, 2008 (CITC)**
- **4th Meeting, January 21st, 2009 (KACST)**
- **5th Meeting, March 15th, 2009 (STC)**
- **6th Meeting, May 17th, 2009 (Mobily)**
- **7th Meeting, October 25th, 2009 (Atheeb)**
- **8th Meeting, March 16th, 2010 (Italtel)**
- **9th Meeting, October 2010 (CITC)**

IP Address Management



IPv4 Address Delegation Hierarchy



RIRs Geographical Scope

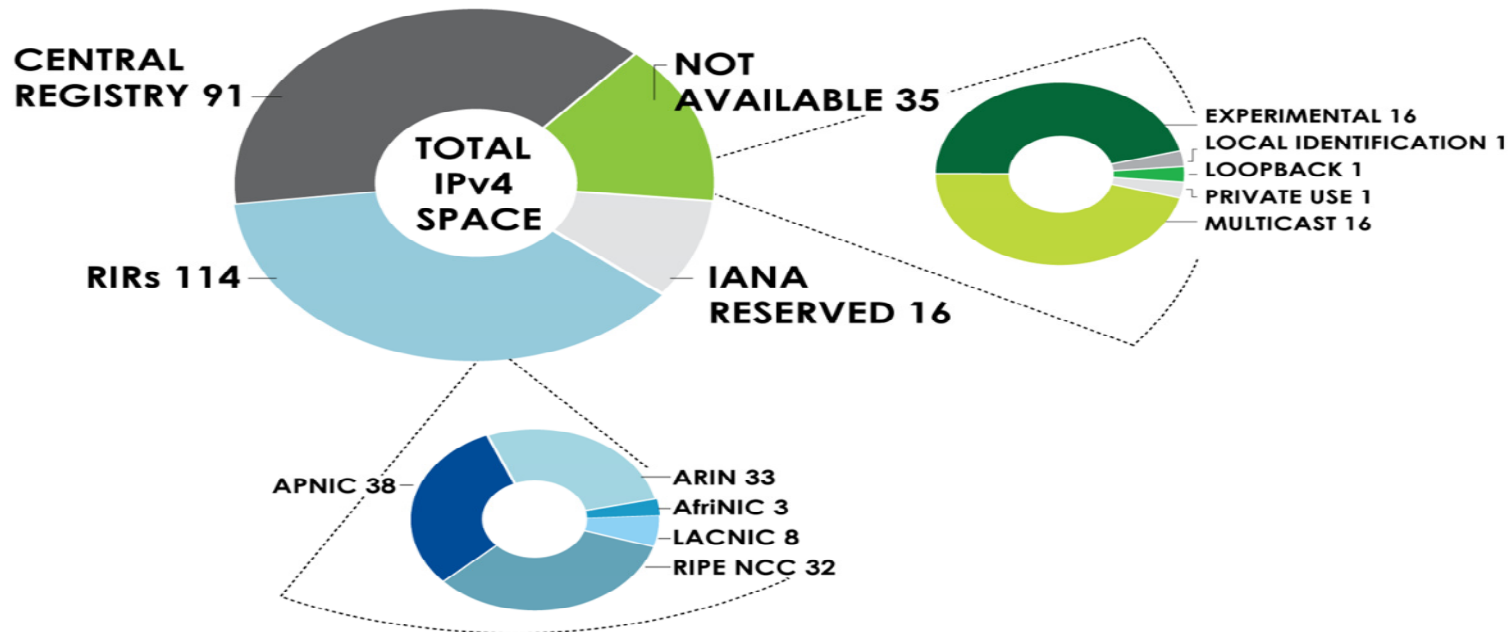


October 2010: 115 LIRs in KSA
(Source: RIPE NCC)

IPv4 Address Space

- Status of each of the 256 /8s from the NRO report (<http://www.nro.net/statistics/index.html>), As of June 2010

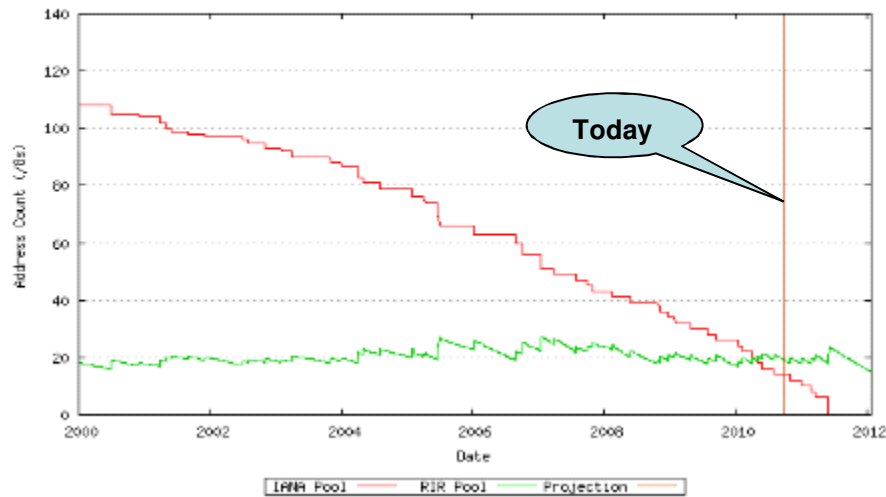
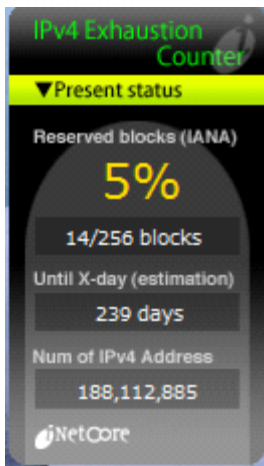
STATUS OF 256 /8s IPv4 ADDRESS SPACE



IPv4 Depletion



IPv4 Depletion Predictions at IANA and RIRs



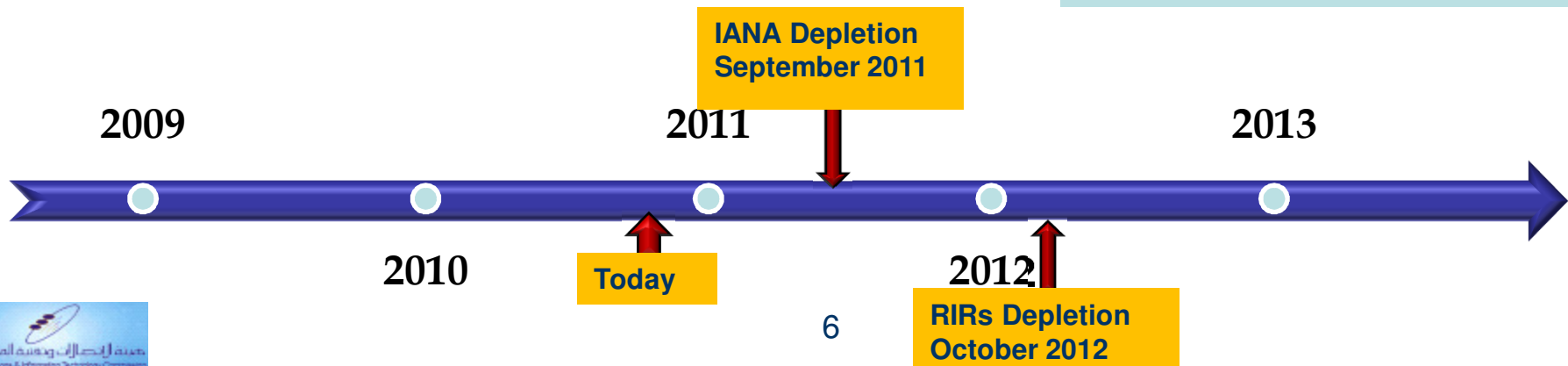
As of June 2010:

Projected Depletion date at IANA: June 2011

Projected Depletion date at RIRs: January 2012

Source:
"The IPv4 Address Report"
By Geoff Huston

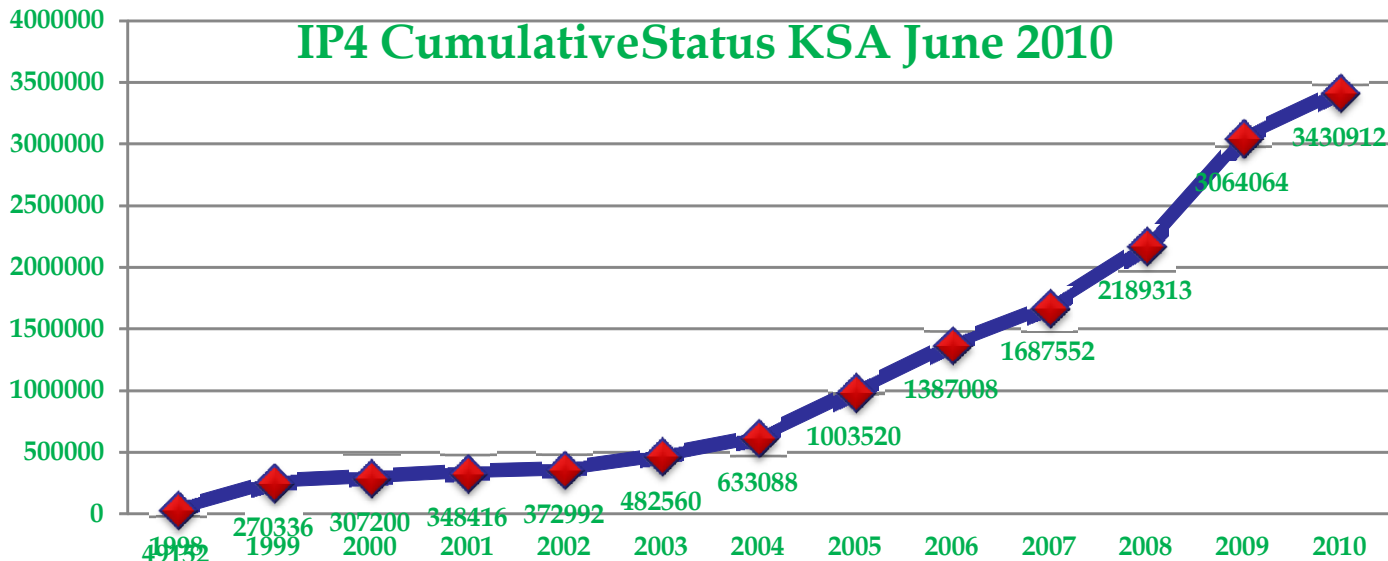
<http://www.potaroo.net/tools/ipv4/>



IPv4 Current State (June 2010)



IPv4 Status Locally

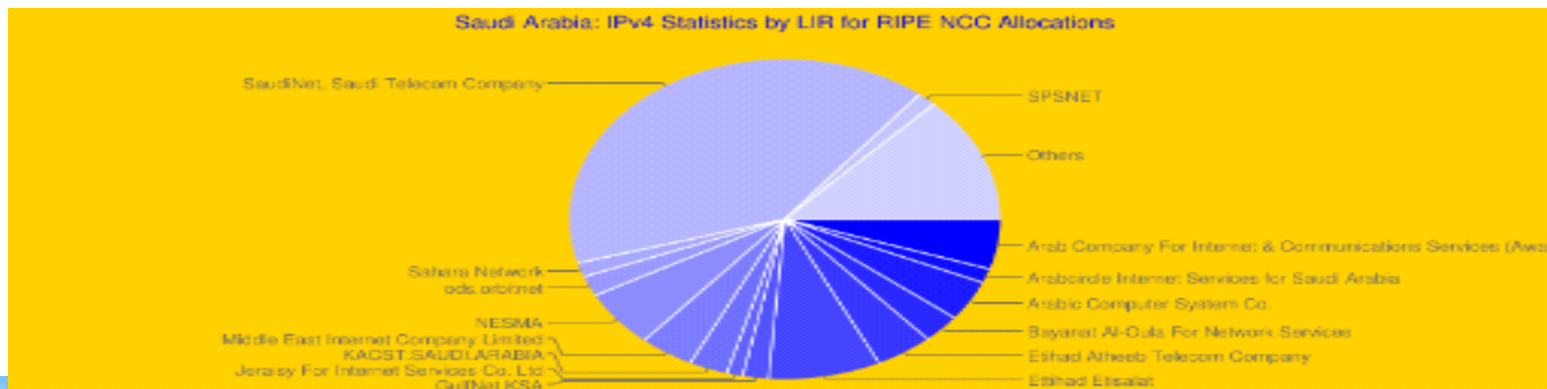


3.43 Million IPv4 Addresses

84.4 % Advertised

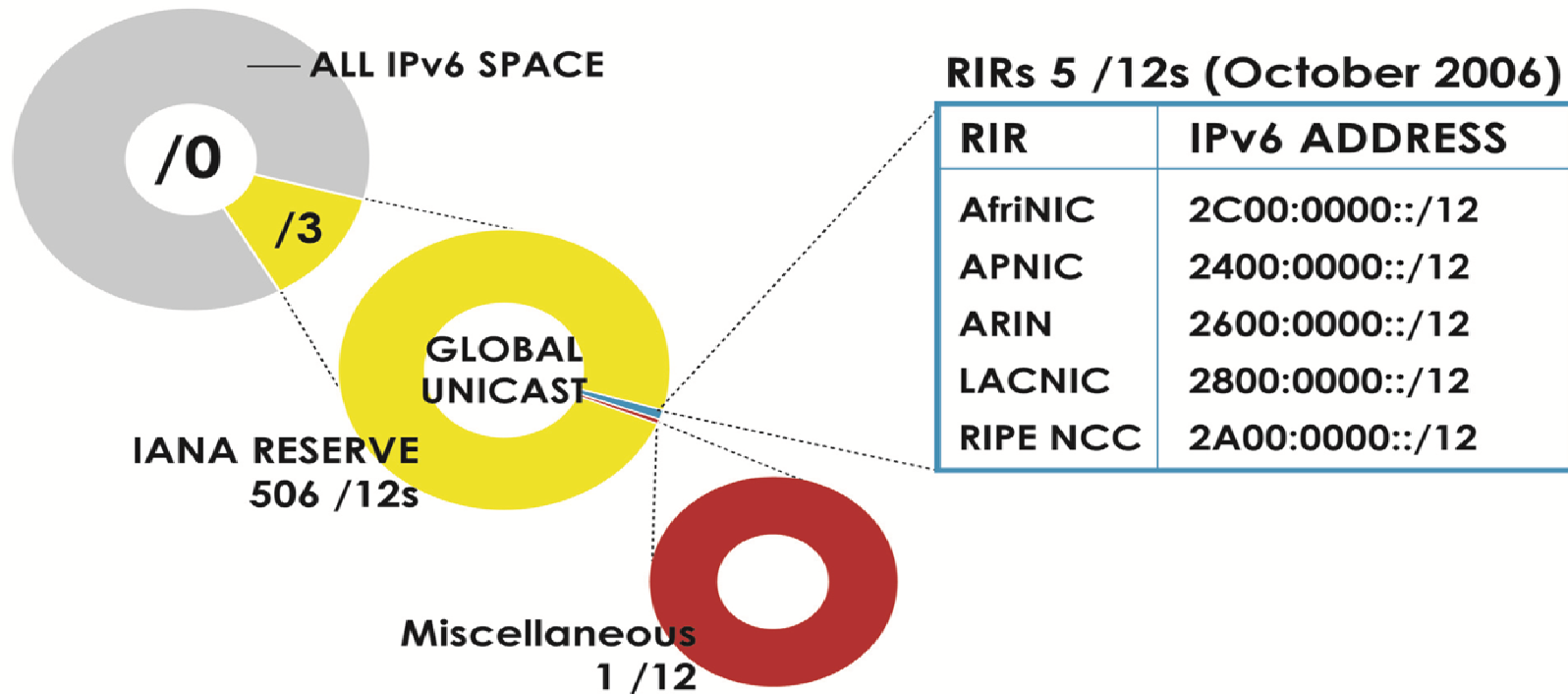
0.259 IPv4 Address Per Capita

(Source: <http://resources.potaroo.net/iso3166/v4cc.html>)



IPv6 Address Space

- How much has been allocated to the RIRs?
- from the NRO report (<http://www.nro.net/statistics/index.html>)



IPv6 allocations in Saudi Arabia



#	Prefix	NetName	Owner	Allocated
1	2001:1490::/32	SA-KACST-20030620	KACST / ISU	20/06/2003
2	2001:16a0::/32	SA-STC-20031219	STC / SaudiNet	19/12/2003
3	2a02:888::/32	SA-ATHEEB-20090112	Atheeb Trading Co Ltd.	01/12/2009
4	2a02:9b0::/32	SA-ETTIHADETISALAT-2...	Ettihad Etisalat	02/04/2009
5	2a02:ce0::/32	SA-BAYANAT-20090408	Bayanat Al-Oula	04/08/2009
6	2a02:d70::/32	SA-SAHARA-20090421	Sahara Network	21/04/2009
7	2a02:df0::/32	SA-FAISALIAH-2009050...	AL Faisaliah Internet Services	05/05/2009
8	2a02:fc0::/32	SA-SPSNET-20090608	SPSNET	06/08/2009
9	2a00:1560::/32	SA-NOURNET-20091028	NourNet	28/10/2009
10	2a00:15d8::/32	SA-NESMA-20091104	NESMA	11/04/2009
11	2a00:1698::/32	SA-SHABAKAH-20091117	Shabakah Net	17/11/2009
12	2a00:18f8::/32	SA-APPTec-20091229	Applied Technologies Co.	29/12/2009
13	2a00:1918::/32	SA-OGERTEL-20091231	Middle East Internet Company	31/12/2009
14	2001:67c:130::/48	CITC	CITC	02/01/2010
15	2a00:1ef8::/32	SA-ATHEER-20100413	Jeraisy for Internet Services	13/04/2010
16	2a00:1f20::/32	SA-MEDUNET-20100415	Sultan Bin Abdulaziz Foundation	15/04/2010
17	2a02:1650::/32	SA-SBM-20100601	Saudi Business Machines	01/06/2010
18	2a02:24c8::/32	SA-INET-20100927	Integrated Networks Co.	27/09/2010

As of Feb 2010 (Source: RIPE NCC):

<http://www.sixxs.net/tools/grh/dfp/all/?country=sa>

Proposed Objectives & Strategy Tracks



Strategy Tracks

Strategy Objectives

- Prepare for the IPv4 exhaustion by supporting IPv6 and ensure stability, business continuity and room for continued growth of the internet in Saudi Arabia
- Ensure a smooth adaption of IPv6 by stakeholders so as to minimize risks
- Raise overall IPv6 awareness nationwide by approaching stakeholders of both the public and private sectors highlighting the necessity to adopt IPv6

Infrastructure

- Five (5) Initiatives:
 - IPv6 Addressing
 - IPv6 Commercial Support for Nation Wide Infrastructure
 - .SA ccTLD IPv6 Compliance
 - IPv6 Compliant Internet Filtering
 - IPv6 Lab

Awareness

- Five (5) Initiatives:
 - IPv6 Task Force
 - Outreach Activities
 - International Cooperation
 - IPv6 Training
 - IPv6 Compliant Procurement

Recent updates



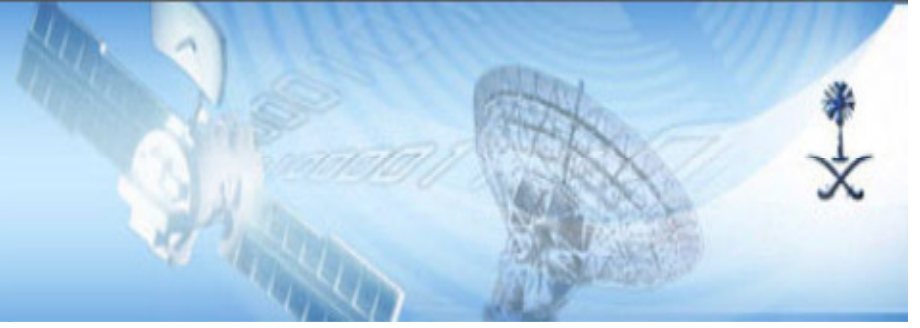
- **CITC Team Prepared and Launched at the IPv6 Website a Status Report in May 2010.**
 - IPv6 Support Initiative
 - IPv6 Task-force Formation
 - IPv6 Status in the Kingdom
 - The Main Achievements of Task-force
 - Name of Entities with IPv6 Addresses
 - The Report was Published at the Taskforce Website (http://ipv6.org.sa/about_ar)
- **SA National IPv6 Tunnel Broker**

Milestones & Timeline



Milestone	Why?	Target Date	Note
Basic IPv6 Connectivity available at <u>ONE</u> FBPs	Essential and Enough to start offering IPv6 to ISPs and End Users	Early 2009	✓
IPv6 Task Force Saudi Arabia	Essential to raise awareness and encourage deployment	End of 2008	✓
Establish an IPv6 Lab	Establish and Disseminate practical IPv6 Experience	End of 2008	✓
IPv6 National Event	Raise awareness and encourage the IPv6 deployment	Early 2009	✓
IPv6 at <u>Multiple</u> FBPs	Important for ISPs and End Users to have more than one Choice	End of 2009	⌚
IPv6 Compliant.SA ccTLD Registry	Essential to run IPv6-only hosts or an IPv6-only infrastructure	End of 2009	✓
Commercial IPv6 Services available from Five (5) ISPs	More choices to end users	End of 2010	⌚

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THANK YOU