

# “Turkey IPv6 Update”



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- Short History of IPv6 in Turkey
- “Design of National IPv6 Infrastructure and Transition to IPv6” Project
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# IPv6 in Turkey: a short history



- TÜBİTAK ULAKBİM, who is managing National Academic Network (ULAKNET) in Turkey, has been performing research on IPv6 since 2003
- IPv6 Forum Turkey, established in 2007 and became a member of global forum in 2010
- February 2008 “IPv6 workshop” , ISPs , ICTA, ULAKBİM
- February 2009 “Design of National IPv6 Infrastructure and Transition to IPv6 ” project was started
- On July 2009, ICTA nominated for IPv6 transition and deployment activities by E-Transformation Turkey Executive Comity which is the highest level of scientific policy maker
- 28 Turkish ISPs got their IPv6 addresses from RIPE ,4 of them are visible in global IPv6 routing tables.
- IPv6 infrastructure and Security Workshop was held on 6 May 2010
- National IPv6 Conference will take place on 12-13 January 2011



# Design of National IPv6 Infrastructure and Transition to IPv6 Project



- Project Overview
  - Funded by TUBITAK (The Scientific & Technological Research Council of Turkey) with the total budgeted of 620.000\$
  - Supported by ICTA (Turkish Information Technologies and Communications Authority) as customer
  - Carried out under the coordination of ULAKBİM with the participation of Gazi University and Çanakkale 18 Mart University
  - The project started on February 2009 and will end on February 2011. There are more than 30 researchers are working for the project
- Project Objective
  - Draw a road map for the IPv6 transition process for Turkey



# Challenges



- Turkish ISPs do not offer any commercial IPv6 connections.

Action :

- Brake the chicken and egg problem (no offer because of no request/ no request because of no offer )
- What will happen if someone requests an IPv6 connection ?
- ICTA asked the Turkish Telecom for commercial IPv6 connection

Result : TT provided the commercial IPv6 connection

- Turkish ISPs do not have IPv6 enabled upstream providers, they need to test their infrastructure and services for transition.

Action :

- Set up an Internet Traffic Exchange Point (IPv6-DN)
- IPv6-DN is a free service given by ULAKBİM

Result : Two Turkish ISPs are using ULAKBİM as an upstream provider for global IPv6 connection



# IPv6 Transition Plan for Government Agencies



- In order to announce Turkey's “IPv6 Transition Plan for Government Agencies”, Prime Minister Recep Tayyip Erdoğan issued the circular 2010/25 on December 8, 2010 (last week!!)
- The plan was prepared as a deliverable of the “Design of National IPv6 Infrastructure and Transition to IPv6” project.
- This plan will be just a technical document without the support of the Ministry of Transport and Communication
- It is composed of *three phases*



# Phase I ( 1 January 2011- 31 August 2012)



- Inventory analysis of network equipments, security devices, hardware and software components of the online services **must** be prepared until 31 May 2011
- Renewal cost of the “IPv4 only equipment” **should** be considered in the budged planning
- All governmental institutions **must** get IPv6 address and make their connection IPv6 enabled until end of August 2012
- After 31 August 2012, IPv6 support in network equipment and software procurements **is mandatory**.
- If there is need for IPv6 training, the IT personal will be trained by ULAKBİM. This training **must** be taken until 1 May 2012



# Phase II ( 1 September 2012- 31 December 2012)



- At least one online service must be offered over IPv6 as an pilot service



Phase III (III ( 1 January 2013 – 31 August 2013)



- All the governmental agencies are **obligated to have their online services IPv6 enabled by the end of August 2013**



- We believe that the project is successful and accomplished its objectives.



# Questions & Comments



Any collaboration/cooperation opportunities are welcome  
on IPv6 based research

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