



## IPv6 Pilot in Turkey

Stimulating IPv6 Upgrades of Public Networks  
and e-Government Services





Turksat Satellite Communication and Cable TV Operation Inc. is the premiere satellite operator company in Turkey. It was established on 21 December 1990

as a government company.

Turksat A.S. owns and operates four satellites and provides all types of satellite communications through Turksat and other satellites. Turksat also operates the nationwide cable infrastructure and provides Internet and television services.

Turksat A.S. is also responsible for establishing, operating and managing e-Government services and infrastructure in Turkey.





The Turkish Academic Network and Information Centre (ULAKBİM) was founded as a R&D Facility Institute of TÜBİTAK in 1996. ULAKBİM's main objectives have been set as operating a high speed computer network enabling interaction within the institutional elements of the national innovation system, and providing information technology support and information services to help scientific production.

ULAKBİM aims at providing technological facilities such as computer networks, information technology support, and information and document delivery services, to meet the information requirements of universities and research institutions, and to increase the efficiency and productivity of their end users.

# THE TURKISH IPv6 PILOT

The experience to be gained by realization of such a big scale pilot in the scope of the project would derive best practices, guidelines, methodologies and toolkits for the transition of e-Government services all around Europe.

The main goal throughout the pilot is to make EGG portal and candidate EGG services IPv6 enabled. In order to investigate each possible case interactively through the pilot, three different service status for the participating institutions are defined namely:

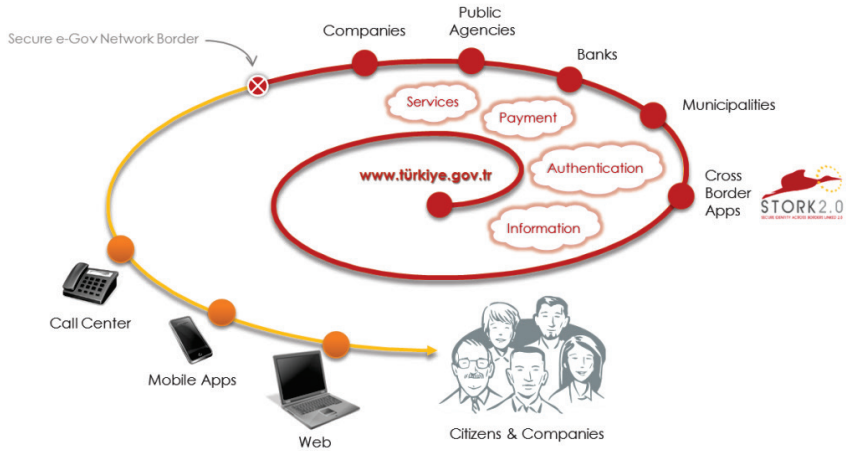
- Making necessary software upgrades (i.e applications, operating systems) on services that are already on EGG.
- Making necessary hardware upgrades where necessary.
- Integrating new public services that are not yet part of the EGG over IPv6.

The proposed piloting activity is also in parallel with the "Turkey's Plan for Public Sector's Transition to IPv6".

Users of the e-Government Gateway's Citizen Portal enjoy these services without having to visit multiple websites or having to be physically present at the agency.

All components on the e-Government Gateway network can exchange data over IPv6.





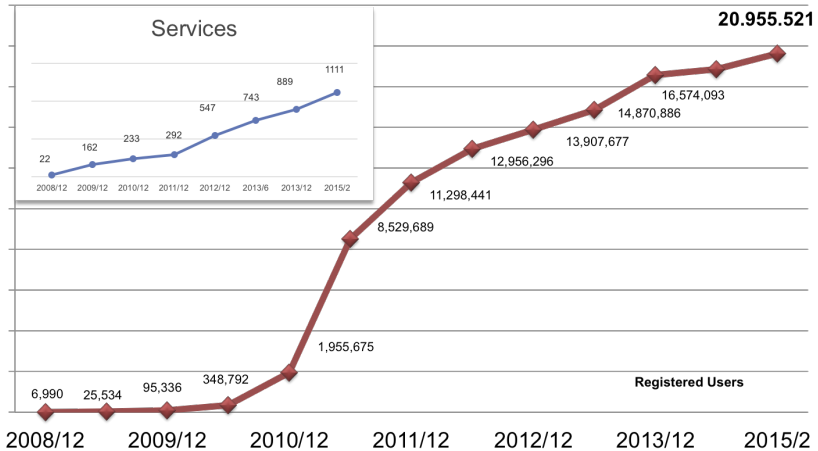
In order to speed up integration between various government agencies a "Public Services Integration Box" and a software "Secure XML Gateway" solution has been developed.

The box provides an easy and cost-effective solution which securely connects internal services and databases of an agency with the e-Government Gateway systems.

Secure XML Gateway is a software solution for proxying, monitoring, logging and securing all transactions with strong security. These solutions are designed to be used by agencies to communicate over IPv6.



## **TURKISH E-GOVERNMENT GATEWAY IN NUMBERS**



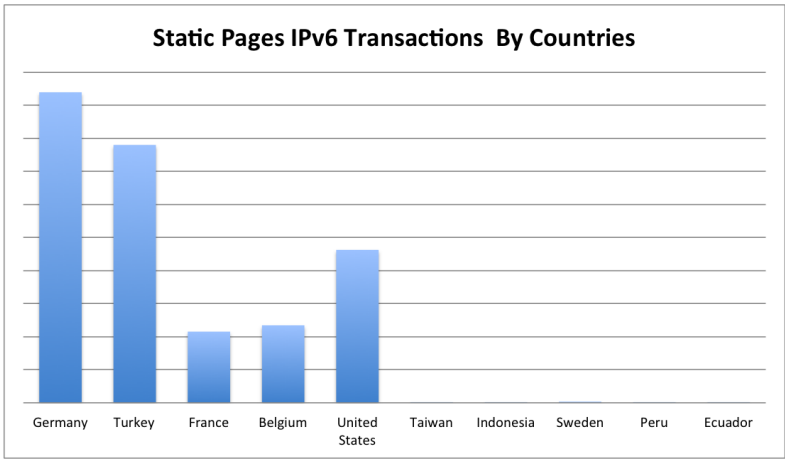
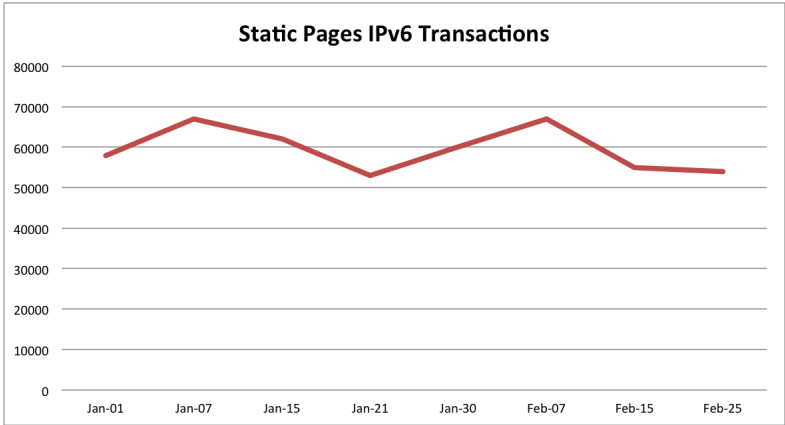
The charts on this page represents the number of services and registered users since its inception in 2008.

As of February 2015, the number of registered users has reached 20.995.521 and service offering has increased to 1111 services.

<b>20.955.521</b>	<b>1111</b>	<b>158</b>
Registered Users	Services	Agencies



# PILOT STATISTICS



The charts on this page represents the number of transactions on the static pages of Turkish e-Government Gateway over IPv6.

There have been a total of 413.419 transactions over IPv6 in the first two months of 2015.

The high number of transactions in Germany is due to Turkish population living in Germany. It is also worth mentioning that there have been IPv6 requests from nearly all continents.



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