Administration of .am national domain
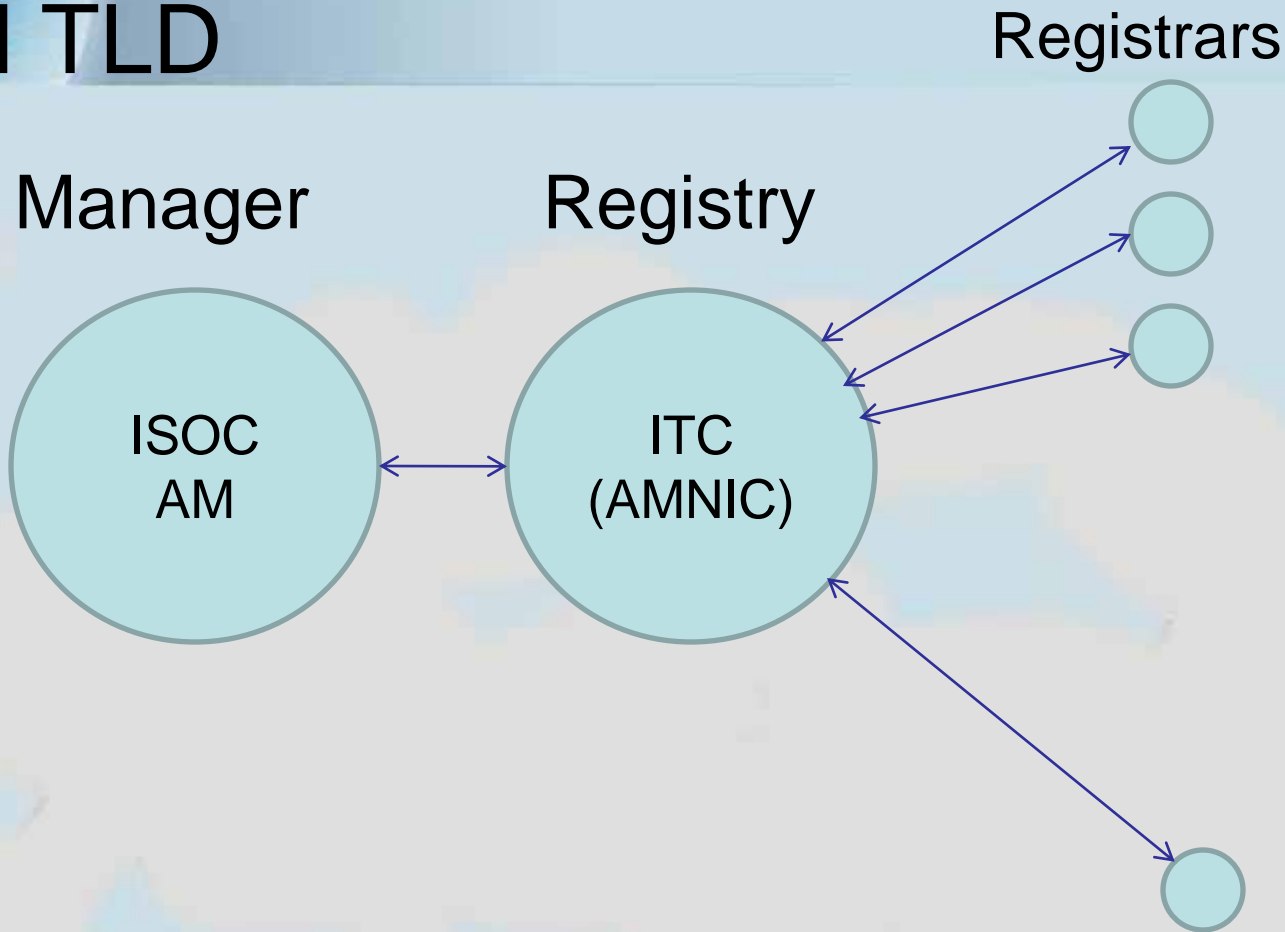
I.Mkrtumyan, H.Dadivanyan, A.Karakhanyan

AMNIC

Internet Society of Armenia (ISOC AM) is AM Manager, ISOC Chapter, member of ccNSO, CENTR, and CEENet

AMNIC is an AM Registry

AM TLD

Registrars

Manager   Registry

ISOC AM

ITC (AMNIC)

Domain name registration

- AMNIC is a holder and manager of AM zone database
- Registrars are provided with special interface for management of their part of AM zone
- Non-residents are submitting an offering type of agreement
- Residents are signing either a paper contract and submit an offering type of agreement where extracts from the local laws are provided. The reason is to make sure that residents understand their responsibilities

Free of charge domains

•   Government, ministeries, president offices and other state structures domains are included in the free of charge domain list

•   NGOs and benevolent organizations domains can be included in the free of charge list by prsenting a letter and approved by the Council of ISOC AM.

Number of domains registered in .AM

Total number of domains in .AM
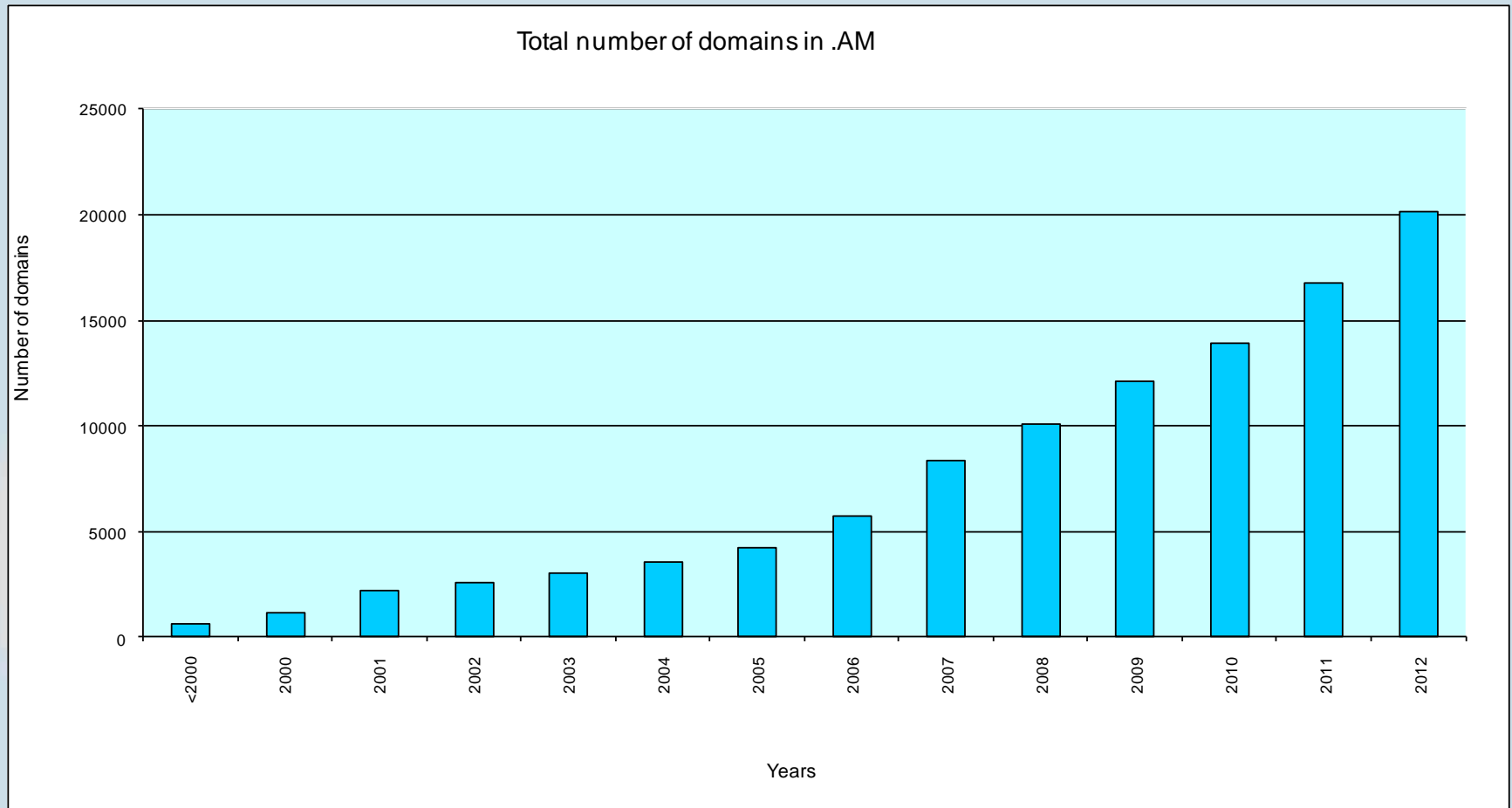
Dispute resolution

AMNIC relies on UDRP for dispute resolution decisions as well as decisions of local arbitration court.

There were two cases:

1. IEEE disputed ieee.am domain name through WIPO. WIPO's decision was in favor of the ieee.am domain owner.

2. Topmotors company, a MAZDA car dealer, having MAZDA authorization letter, disputed mazda.am domain, registered by a person. The lawsuit was against a registrar and the owner although it is stated everywhere that registrar is not responsible for any domain name registration. Strange enough but MAZDA lost the first stage of the process. The conclusion of the court was: "There is no enough evidence that MAZDA Corporation agreed with the filed suit and is aware of the process details"

Internet Penetration in Armenia

Home Internet Adoption in Armenia according to Caucasus Barometer (CB)

2007	2008	2009	2010
4.30%	7.00%	5.80%	19.30%

Home PC Adoption in Armenia (CB)

2006	2007	2008	2009	2010
10.80%	11.40%	14.70%	14.70%	26.70%

Distribution of Internet users in Armenia

Capital   **80%**
Regions   **20%**

Reliability of DNS service in Armenia

AMNIC activity
- Two independent Internet connection
- Recent upgrade of servers
- Secondary DNS servers in NAS
- DNSSEC
- CommunityDNS server

Other companies' activity
- i.root server instance

DNSSEC

- **DNSSEC - completed in July 2011.**

   a. all zones, except the .am itself, have been signed in July 2010:

   > amnic.net
   > c.1.2.0.c.7.6.0.1.0.0.2.ip6.arpa
   > 74.43.195.in-addr.arpa
   > 75.43.195.in-addr.arpa

   b. .am zone has been signed in February 2011

   c. registrant/registrar interface has been updated to accept signatures in July 2011

- **Asyncronous DNS updates - completed in Novemeber 2011.**

   Now DNS updates don't wait for manual approval, they're automaticaly processed and .am zone reloaded once a 5 minutes. This is a part of ongoing interface update.

DNSSEC

- **Registrant/registrar interface update - in process.**

   - **Many parts of interface have been rewritten, some are still waiting,**

   - **Improved security, operation convenience and adoption to the new hardware are in mind, when working on this project.**

- **Redundant DC setup had been setup.**

   - **Internet connectivity is now redundant, but will be improved more.**

   - **DNS, whois and web services are now fully redundant.**

   - **Database read access is redundant, write access redundancy isn't planned - needs manual switchover.**

Community DNS server

- **CDNS currently supports over 68% of the Internet.**
- **Amazing speed and platform efficiency, with extraordinary capacity.**
- **Each of CDNS over 40 nodes comfortably handles over 863,000 queries per second**

Instance of i.root-server

Armenian Datacom Company (ADC) and Netnod have installed an instance of i.root-servers.net in one of ADC's data centres. This is the first DNS root server in Armenia, which will contribute to the reliability and redundancy in DNS services to Internet users in Armenia and surrounding regions.

- *AMNIC Domain Name Policies:*
- all domain names are open for free registration
- no trademark domain protection

IDN: *prepare to apply*

Number of domains per 1000 of population
Armenia – 6.3
Average European – 45

Growth Rate 2012: *approximately - 14%*

What is necessary to do?

- *Monitor Armenia IPv6 readiness and help organizations in achieving that. ISOC AM is participating in the upgrade of AM NREN network to IPv6 readiness*

- *Until now we didn't introduce automatic registration of domains because of the low number of applications but it is gradually growing and we plan to develop an automatic registration of domains based on EPP protocol.*

IPv6 state in Armenia

- *We monitor Armenia IPv6 readiness and help organizations in achieving that*

- *On July 6, 2012 we organized the 2nd IPv6 day in Armenia*

- *We monitor the data provided by* http://ripeness.ripe.net/

Country DNS IPv6 readiness

- TLD's DNS services are IPv6 ready since 2006.

- Interface was improved and allow registrars/registrants to supply with IPv6 glue records in .am zone file since 2010.

- Just after interface improvement some major ISPs as well as some customers are added IPv6 glues. Now there are 28 IPv6 against 711 IPv4 glues (as of August 23, 2012).
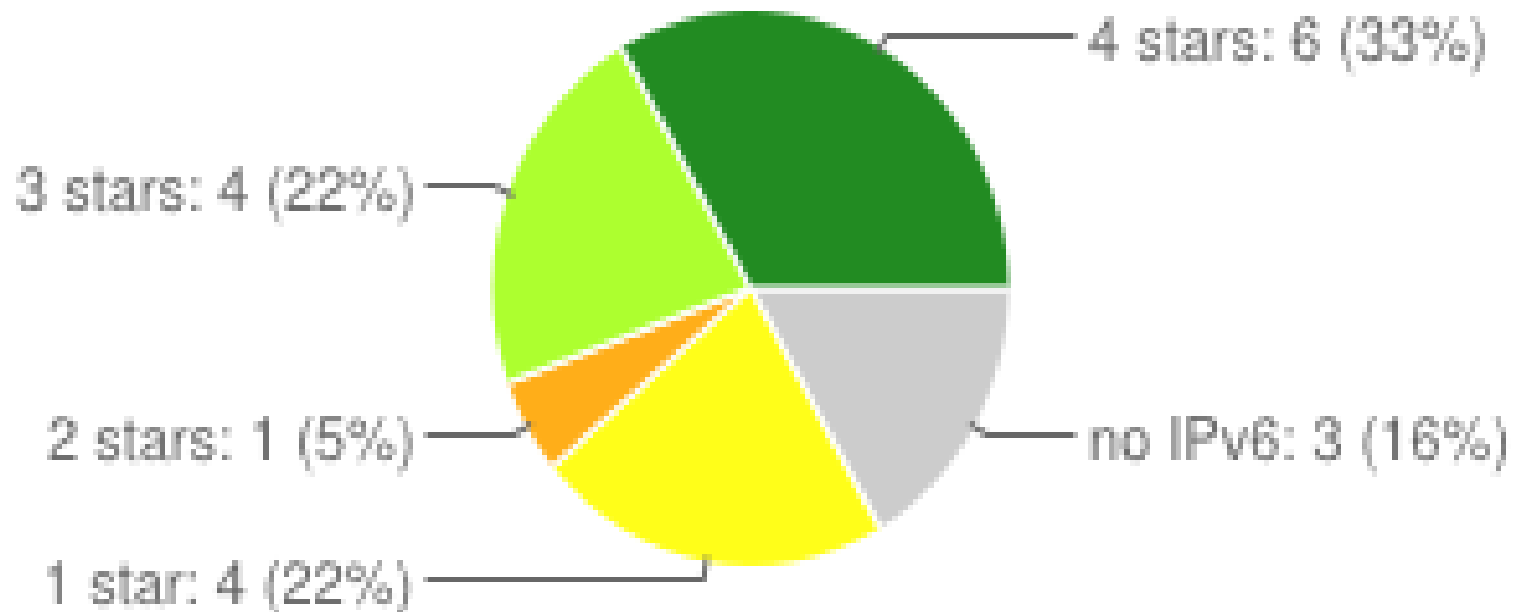
How IPv6 ready are you?

- **IPv6 RIPEness is a rating system which awards stars to RIPE NCC members depending on how IPv6 ready they are. Stars are awarded for:**

- **Having an IPv6 allocation**

- **Visibility in the Routing Information Service (RIS)**

- **Having a route6 object in the RIPE Database**

- **Having a reverse DNS delegation set up**

- **Find out how you can get your RIPEness stars For more information on the RIPE NCC's IPv6 RIPEness project, see http://labs.ripe.net/topics/ipv6ripeness Check out the RIPEness data below:**

- **LIRs with 4star RIPEness**

- **RIPEness per country pie-charts**

IPv6

Armenia (18 LIRs/DAUs)

4 stars: 6 (33%)

3 stars: 4 (22%)

2 stars: 1 (5%)

1 star: 4 (22%)

no IPv6: 3 (16%)

Conclusions

- *The number of Internet domain names in AM TLD is increasing slow.*

- *Resident/Non-resident registrations are 60/40.*

  Probable reasons:

- *Non-favorable conditions for small and middle businesses?*

- *High prices of domain names?*
  .am   22 euro
  Average European is 10 euro

Thank you!