

.TJ ccTLD introduction

Kadamjon Safiev,
Center for Information Technologies in the
Administration of the President of the
Republic of Tajikistan

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History

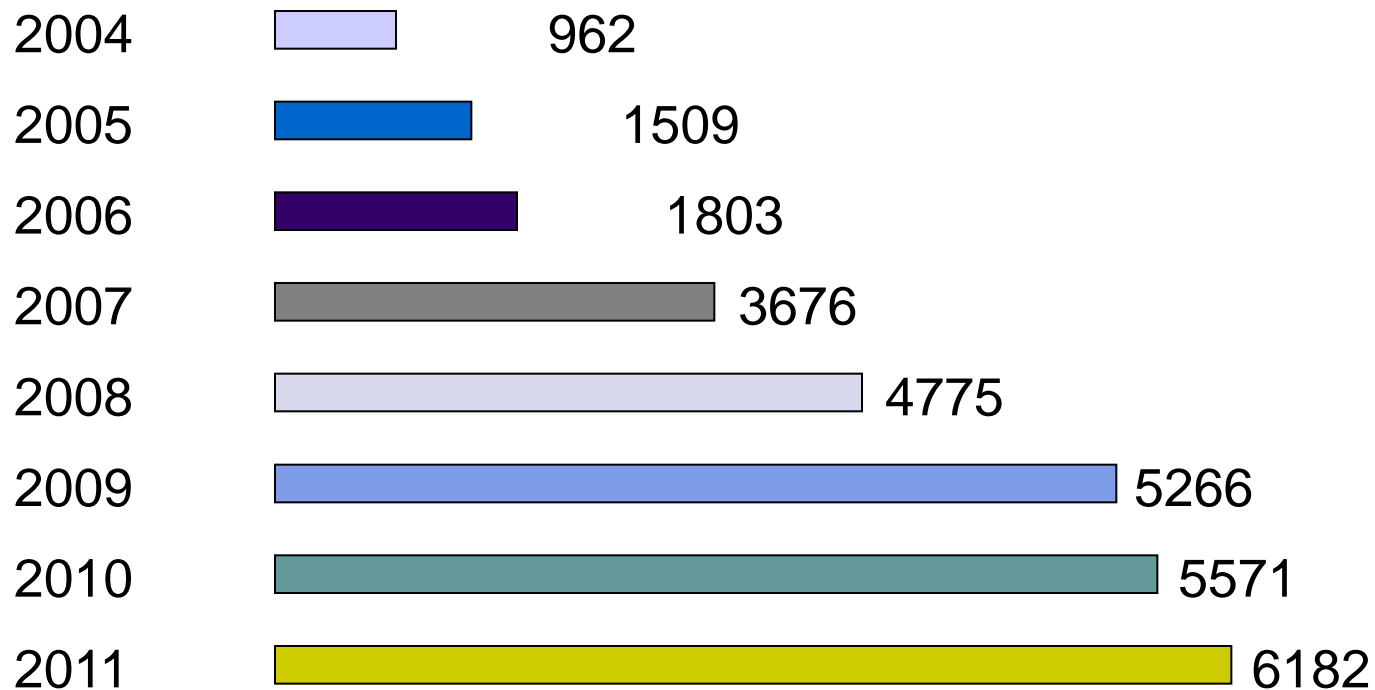


- 1997 – .TJ ccTLD was established and delegated to Tajikistan
- 1998-2002 – management over .TJ moved to TJ Network Services of Fresno, California USA
- 2002-2003 – redelegation process for returning management over .TJ to Tajikistan
- 2004-until now – .TJ ccTLD is managed by ITC after successfully done redelegation process



Statistics

- Number of registered domain names (Annual statistics)



Top 10 Websites of TajNet



Purpose

Determination of most popular websites within Tajikistan segment of the Internet for further research



Categories

- News and information portals.
- Entertainment websites.
- Public service and e-Government oriented websites.
- Websites of Public associations and local and international organizations.



Quantity

- The study was carried out through the list of 6251 TJ domain names provided by TJ ccTLD Domain Manager and 12 domain names from other domain zones (such as .ORG, .RU etc.).
- There are 2846 (45,5%) of active websites in studied domains.
- 3405 (54,5%) registered domains have no websites under them.



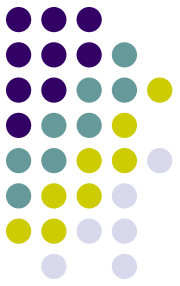
Quantity

The list of 2846 domains subjected for study included:

- 1800 domains having “dead” or “ghost” websites (under construction/maintenance or contain idle or outdated information).
- 720 websites oriented on commercial (business) purpose.
- 338 websites were subjected for further study under extended category list.

Study tools

- Google analytics
- Livinternet
- mysitecost
- toptj.org
- pingis.ru
- Alexa





Lack of web hit counters

- During the study the researching team faced the problem of absence of hit counters on some websites.
- Some news and information and entertainment websites have hit counters, but Public service websites and Public associations' websites have no counters at all. Due to that reason these websites weren't included in any rating list and had no possibility to be rated.



Lack of web hit counters

- Among mentioned 338 investigated websites under extended category list about 180 websites have no hit counters as well.
- Remained websites were subjected for further study under the TOP rating category.

Top 10 of information and news websites



#	Resource	Number of visits per day	Number of visits per month
1	news.tj	10309	319579
2	toptj.com	4022	124682
3	ozodi.org	3607	111817
4	avesta.tj	1845	57195
5	tojnews.org	1051	32581
6	tjknews.ru	966	29946
7	bonuvon.tj	903	27993
8	khovar.tj	806	24986
9	pressa.tj	353	10943
10	ruzgor.tj	317	9827

Top 10 of social network and entertainment websites



#	Resource	Number of visits per day	Number of visits per month
1	torrents.tj	3135	97185
2	2shanbe.tj	2827	57598
3	box.tj	1397	43307
4	tajtube.tj	725	22475
5	tajforum.tj	652	20212
6	mail.tj	642	19902
7	foto.tj	486	15066
8	tigrovajabalka.tj	411	12741
9	blogiston.tj	187	5797
10	mynet.tj	160	4960

Top 10 of Public service websites



#	Resource	Number of visits per day	Number of visits per month
1	nic.tj	1342	41602
2	tajikair.tj	288	8928
3	prezident.tj	173	5363
4	tpp.tj	162	5022
5	dushanbe.tj	144	4464
6	mfa.tj	143	4433
7	rhd.tj	132	4092
8	Parlament.tj	119	3689
9	mmk.tj	656	3482
10	stat.tj	184	3447

Top 10 of Organizations' and Public associations' websites



#	Resource	Number of visits per day	Number of visits per month
1	untj.org	2832	87792
2	ngoyonc.org	835	25901
3	tajmigrant.com	816	25296
4	tpac.tj	621	19251
5	tuj.tj	604	18724
6	spet.tj	508	15748
7	soros.tj	339	10509
8	ztda-tourism.tj	205	6355
9	ygpe.tj	174	5394
10	risolat.tj	164	5084

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Relation to the Government



- From 2004 to 2009 after redelegation process we perform all the activity on domain registration by Information Technology Center (ITC) of the President Administration of Tajikistan which is a Government body. Every year the Government evaluates registrar activity, reviews the contracts and makes a decision to prolong it or choose another scheme. In 2012 Information Technology Center is going to develop and implement new way of registration methodology and it is likely that this activity become more progressive.



IDN (Alphabet)

- Tajik language is Farsi origin language but has Cyrillic writing and 6 additional letters, so called extended Cyrillic character set. During Soviet period Tajik alphabet included 39 letters
- Cyrillic **АБВГДЕЁЖЗИЙКЛМНОПРСТУФХЦЧШЩЪЫЬЭЮЯ**
- Tajik **ҒЙҚҰҲЧ**
- After some reform in recent years 4 characters were discarded from alphabet. Here they are: **ЦЩЫЬ**
- In spite of that by means of IDN it is preferable to use all **39 letters** because it allows registering both Russian and Tajik names within one character set without any limitation and it doesn't cause any ambiguity between the languages.

IDN (Homographs problem)



- The point is that some Latin and Cyrillic characters look alike. This problem discussed widely and all the measures and decisions undertaken here were directed to prevent IDN homograph attack or script spoofing. And most simple decision here is **not allowing** the domain names **with mixed letters** from Latin and extended Cyrillic character set.



IDN (Homograph characters)

#	Latin	Cyrillic	Notes
1	A a	А а	
2	B	В	
3	C c	С с	
4	E e	Е е	
5	H	Н	
6	K	К	
7	M	М	
8	<i>m</i>	<i>м</i>	M / Т, italic
9	<i>n</i>	<i>п</i>	N / П, italic
10	O o	О о	
11	P p	Р р	
12	T	Т	
13	<i>u</i>	<i>у</i>	U / И, italic
14	X x	Х х	
15	y	у	



IDN (Full homographs)

- But the prohibition of domain names with mixed letters doesn't fully eliminate the problem of homographs. It is possible to write domain names from only one character set but it still remain ambiguous or homographic (full homographs). For example:
ace cop coop copy pace apace ceo
- In this case such names should be considered as one name and both names records should be entered into zone file and it is up to owner to configure his domain name's double or not.

IDN (Code page or Character encoding)



- As in any language different from English sometimes the problem of different from ASCII characters writing was arisen when 8-bit character encoding was using. When 16-bit Universal Character set – Unicode was introduced this problem became less important but we can always find some persons somewhere who use old or homemade style of writing. And sometimes it is not obviously for them how to print some special letter. For example

тест.tj санциш.tj

- In first case тест is written in Russian and it has no problem to write it in any browser's navigation toolbar. But in second case the writing isn't so obvious if you have several Character encoding styles.



Future steps

- IPv6 Internet protocol deploying
- DNSSEC implementations
- Full IDN ccTLD

Thank you

- Any questions?

