

IDN deployment in Germany

Marcos Sanz DENIC eG sanz@denic.de



Abstract

- Known Facts
- Technical hurdles
- Support hurdles
- Legal issues
- IDN a posteriori



Facts

- IDN launch under .de took place on 1st March 2004 10:00:00 CET in coordination with NIC.AT and SWITCH.
- Huge media coverage:
 - Over 1,000 press reports
 - 20 radio interviews
 - 5 TV reports (ARD, RTL, n-tv..)



Facts

- Only digits or letters from Latin-1 Supplement and Latin Extended-A satisfying:
 - character=Nameprep(character)
- Object of contract is the IDN form, not ACE
- First Come, First Served
- Introduction by means of Big Bang



Technical hurdles

- It was not the IDNA standard, but:
- Big bang setup: Only one TCP connection to DENIC mailer per registrar allowed.
- Our main mailer hardware breaking down on 1st March 10:01:04 CET.
- Internationalization of domain name slots in our database, website, DMS..
- Upgrades to software: drivers, fonts, text editors, terminals, browsers, mail clients..
- Updates drive to bugs, bugs drive to more updates
- Reliable testing of the whole testbed



Support hurdles

- Before launch:
 - How to register IDNs
 - Which characters are allowed
 - Chances for an IDN if transliterated domain exists
- After launch:
 - How to type characters which aren't located at the keyboard
 - IDNs don't work as expected, though we tried to circulate information as much as possible: http://www.denic.de/en/domains/idns/Browser.html
 - A technical newsletter reporting on 1st April that all IDNs were going to be reassigned: http://tinyurl.com/2gna2

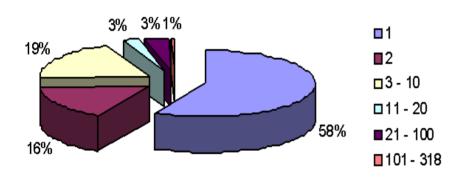


Legal issues

- Before launch:
 - Registrants sytematically threatening DENIC members to protect their alleged trade mark rights. They were ignored.
 - One registrant filed for an injunction against DENIC because of 2 domains, which "would lose their economical value after IDN launch". Injunction got rejected.
- After launch:
 - Increase of dispute resolution forms



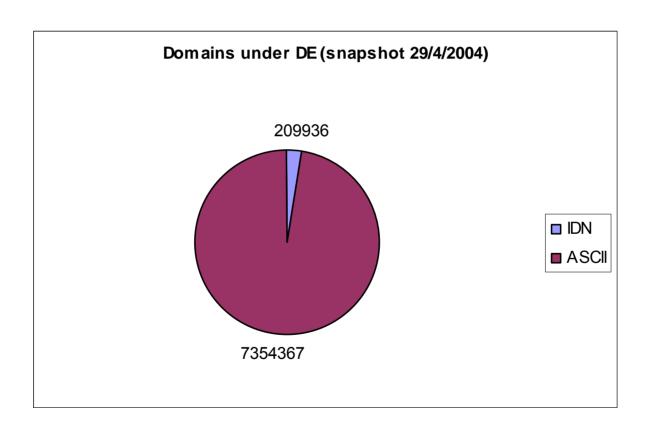
Analysis: Most wanted domains



Domain	Number of requests
möbel.de	318
glückwunsch.de	303
bücher.de	302
börse.de	284
küche.de	282
büro.de	282
flüge.de	263
küchen.de	257
ärzte.de	253
reisebüro.de	240

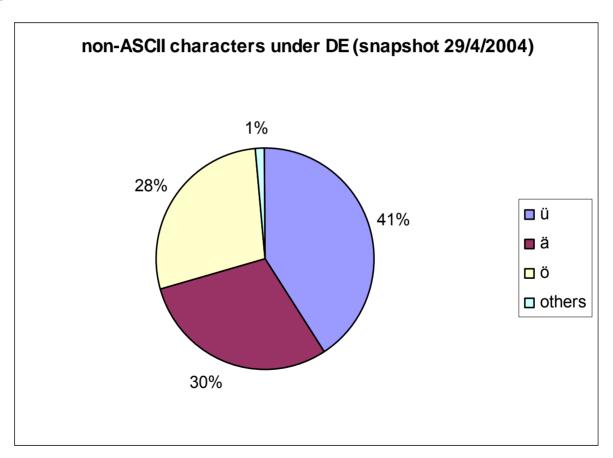


Analysis: IDNs in DB



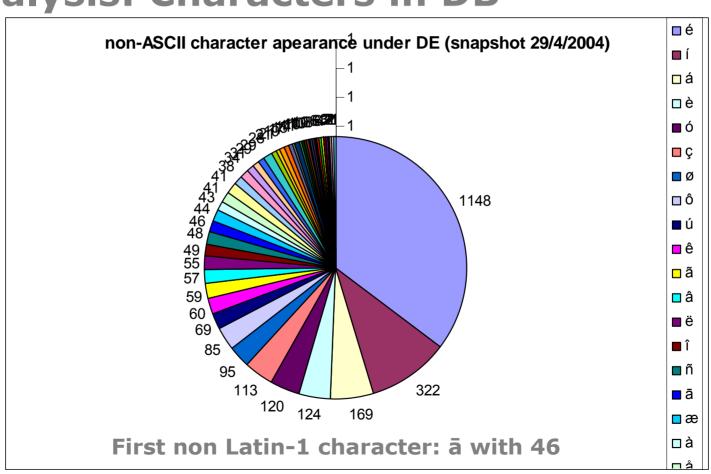


Analysis: Characters in DB

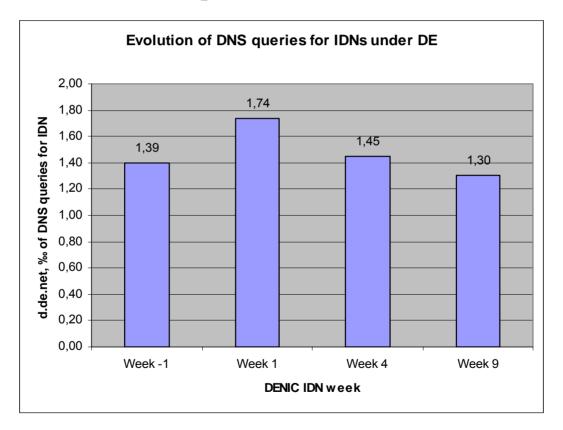




Analysis: Characters in DB

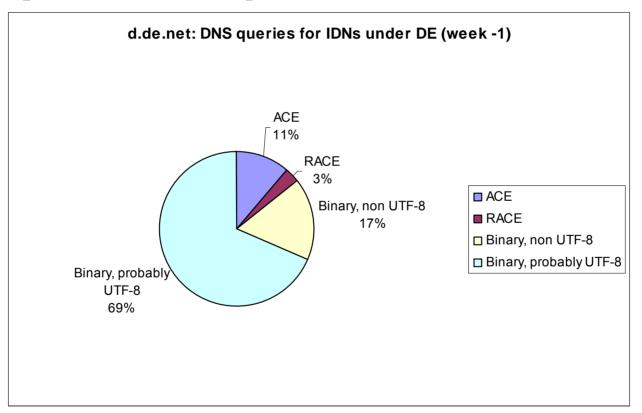






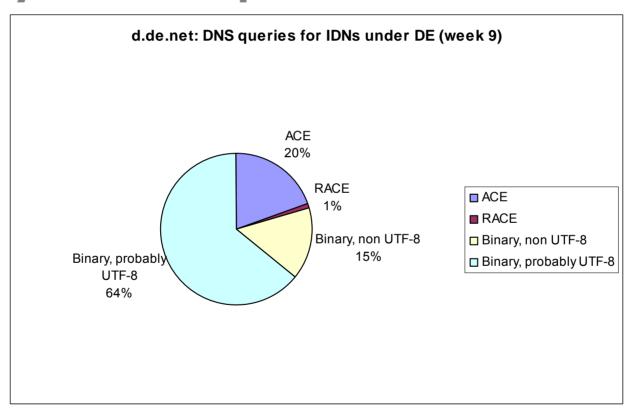
Only from one primary, week mean values, discontinuous periodical samples, not cleaned statistically





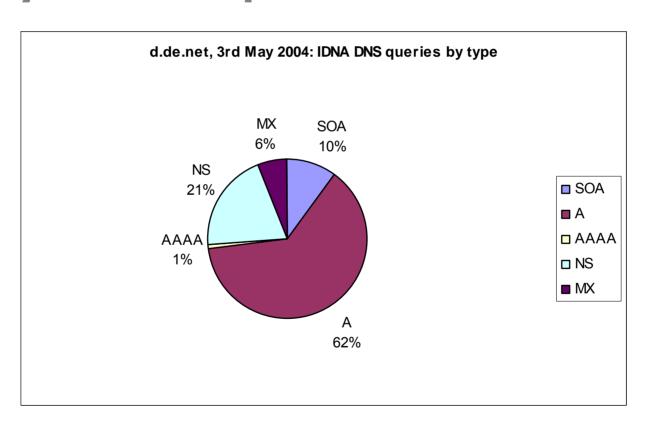
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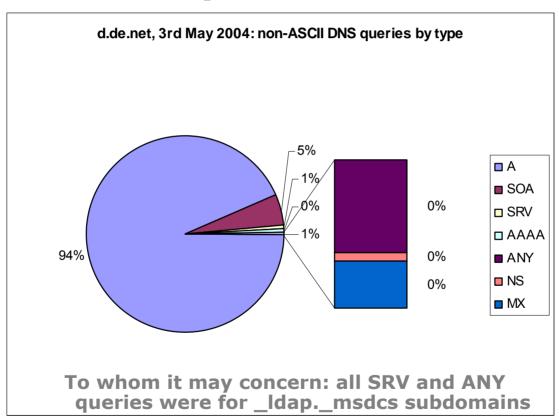
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If we could turn back time...

- Launch taking place AFTER April Fools Day
- But remember:

"After All Fools Day is Before All Fools Day"



Thanks for your attention Any questions?