

The zone files, .se and .nu

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Zone content are available for all

- The zone files for .se and .nu are available since 2016-05-16!
- Available through HTTPS and AXFR, no restrictions

Background

- A year ago, discussions on the transition from NSEC to NSEC3 at a IIS DNS Reference Group meeting
 - It's relatively hard to make this transition
 - Why is the zone content considered to be secret?
 - The DNS Reference Group asks IIS to consider the possibility to release the .se zone file

Report to management LG

- Background - current limitations to getting the zone content
- Description of the zone content, what's in there?
- Something about IP addresses
- DNS resolvers and the information about the mechanics behind cacheing
- Current interest of zone file content
- Open Data
- ***CENTR*** Survey
- The zone is available anyway... (NSEC-walking, Google, Dictionary attacks...)
- What could possibly be secret in the zone file? (Non-launched campaigns, trademarks)
- The benefits of freely distribute the zone file content
- Full risk analysis
- How others distribute their zone files (gTLD, CZDS)
- How the zone file should be distributed (HTTPS, AXFR)
- Recommended decision

First management decision

- Perform external legal analysis
 - Wistrand
- Perform external technical analysis
 - NLNet Labs

Wistrand

- Check against the Law on Top Level Domains in Sweden (prop 2004/05:175).
- Check against the Personal Data Act (prop 2005/06:173).

“... en publicering av zonfilen träffas av undantaget i 5 a§ i PUL och att hanteringsreglerna därför inte är tillämpliga. Det finns enligt vår bedömning ingen anledning att gå djupare in i PULs bestämmelser för att utröna om en publicering även skulle anses vara förenlig med hanteringsreglerna eftersom det enligt vår bedömning får anses klart att påtaglighetskravet som uppställs i 5 a§ i PUL inte kan anses uppfyllt och att en publicering av zonfilen inte heller kan anses kränka den registrerades personliga integritet. Sammanfattningsvis är vi alltså av uppfattningen att en publicering av zonfilen inte anses strida mot varken PUL eller Topppdomänslagen. “

NLNet Labs

- Inventory of Technical Consequences
- Transfer/Transport Protocol (HTTPS/AXFR)
- Robustness of the Infrastructure
- Privacy and WHOIS Data Mining

The second management decision

- OK! Ask the board to make the final decision!
- The IIS board decided to release the zone file in March 2016
- *The zone is to be released without restrictions under a Creative Commons License*
- Ok from The IUSN Foundation to also release .nu

External Communications

- PTS - The Swedish Post and Telecom Authority (our regulator)
- Our registrars
- The Swedish Data Protection Authority
- The DNS reference group
- The public
- Press release
- CENTR
- ICANN ccNSO

© in the zone file?

```
$~>dig txt _license.blipp.com +short
```

```
"http://creativecommons.org/licenses/by/4.0/"
```

```
$~>dig txt _copyright.blipp.com +short
```

```
"Copyright (C) 2016 Patrik Wallstrom"
```

draft-wallstrom-dnsop-copyright-prefix

When?

- Last Thursday the information was sent to our registrars
- And to the DNS Reference Group
- Information at iis.se is published
- The zone files was released 16th May

End users (registrants)

- Should think about not delegating domains that are considered secret until launch
 - Such as campaigns, trademark launches
 - “Your registrar can help you with this”

https://zonedata.iis.se/

IIS Zone Data

This is where you can find the latest .se and .nu zone files. The zone files are available through AXFR at zonedata.iis.se and here:

- [.se](#)
- [.nu](#)

The zone content is (C) Copyright 2016 The Internet Foundation in Sweden. The license is [Creative Commons Attribution 4.0 International](#).

The operational status of the IIS systems when the latest .se zone was published is available [here](#), and the .nu zone [here](#).

For operational reasons we cannot provide DNS notify messages when a new zone has been published. The zones are updated every other hour independently. IIS offers this as a best effort service, but aim to have it available at all times with the latest available zone files. No guarantees.

Do not make unnecessary zone transfers. Check SOA before fetching a new zone file. If the service is abused, we reserve the right to block the IP prefix that is the cause of the problem. IIS alone makes the assessment of the cause of any problems. Contact us at hostmaster@iis.se before any experiments, we are happy to discuss your issues.

More information about generic access to the zone file can be found [here](#).

Reactions

- No negative comments, just the opposite...
- Now I can skip my NSEC-walker!
- Well done, you're doing the right thing!
- Can I configure my name server to fetch the zone?

DNS Reactions

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MAY

17

dnsreactions



When I hear IIS **started offering their TLD zones for download**

Recommendations

- Have a well-protected WHOIS service
 - Rate-limited port 53
 - Limitations on personal details
- Contact information behind a CAPTCHA
- Zone availability from AXFR and HTTPS on a separate machine

Questions to you!

- What do you think?
- When will you release your zone file content?