DNSSEC DEPLOYMENT IN EUROPE

- CENTR DNSSEC SURVEY

Wim DEGEZELLE
CENTR

10 March 2010

DNSSEC Workshop
ICANN Meeting, Nairobi, Kenya
1. CENTR
2. Survey background and participants
3. Overview responses
4. Conclusions
CENTR is the world’s largest association on Internet Domain Name Registries. CENTR has over 50 members, each of them responsible for the operation of the country code top level domain in their country. CENTR members account for over 80% of the country code domain registrations worldwide.
CENTR = Forum for (cc)TLD managers

Information platform

Exchange of good practices

European focus

Meetings and workshops

Mailing lists, surveys, library, website, news updates, statistics, ...

Membership:
48 Full members (ccTLDs)
10 Associate members (TLDs)
9 Observers

CENTR membership in domain names
(Stats update January 2010)

Full members => 48,217,781
Associate members => 16,971,114
CENTR Surveys

popular survey tool

“members can set up a survey instead of asking questions to the mailing list”

- 23 surveys started in 2009
- in general 25-30 registries responding
Questionnaire by CENTR secretariat based on input from members on CENTR mailing list

Questions focus on operational issues

Questionnaire open between 1 February and 2 March 2010

21 respondents
CENTR DNSSEC survey

21 respondents:

CENTR Members & Associate members

Registries for
.ad, .at, .ca, .cat, .ch/.li, .es, .eu, .fi, .fr, .hu, .it, .jp, .lu, .lv, .mx, .nl, .pt, .se, .si, .tr, .uk.

Number of domain names by the registries in survey
27,397,611
**Question:** Current state of DNSSEC?

Of the registries in the survey:

- **3** DNSSEC is up and running
- **10** DNSSEC will be operational within 12 months
- **3** DNSSEC will be operational within 1 – 2 years
- **3** DNSSEC will be operational within 2 – 5 years
- **2** No concrete plans
Question: Reasons behind the decision to implement DNSSEC?

SAFER INTERNET

goal / task registry

requested by local community

new gTLDs must do it

Government support
CENTR DNSSEC survey

**Question:** Does the registry levy an extra charge for handling DNSSEC enabled names?

**No extra costs** charged by registry for DNSSEC

**Question:** What % of domains is signed? *(end January 2010)*

Still very low .... Less than 0.5%
**Question:** Your registrars and DNSSEC deployment – What are the main issues?

- no demand from registrars
- they are not ready
- see DNSSEC as extra burden
- lack of experience
- “they seem to wait for .com”
Question: How do you involve and prepare your registrars?

- seminars, info sessions
- informative email, mailings
- during registrar days
- technical workshop
- ...
Question: Did you consult with your registrars about the implementation of DNSSEC?

Y E S

‘yes, but with no substantial feedback’
Question: KEY management –
What solution do you use / plan to use?

- 8 open-dnssec
- 4 home made solution
- 1 DNSSEC box (secure64, infoblox, bluecat, ...)
- 1 other
Question: NSEC / NSEC3 / NSEC3 with opt-out
What do you plan to use?

8  NSEC3 with opt-out
4  NSEC3
1  NSEC
**Question:** Supply and update DS keys to registry?

What is the main interface for the **registrant** to supply/update DS keys to the registry?
- 4 web
- 3 other

What is the main interface for the **registrar** to supply/update DS keys to the registry?
- 4 web
- 3 EPP
- 1 other
What is the main interface for the key holder to supply/update DS keys to the registry?

2 EPP
2 web
2 other
Conclusions and suggestions for registries planning DNSSEC

- **Work and plan with your registrars**
  - Give a lot of information and explain long term benefits
  - Provide easy to read documentation
  - Manage different aspects of DNSSEC as different projects
    (eg siging your TLD vs enabling registrants to enter keys in the zone)
Thank you for your attention!

More about CENTR at
http://www.centr.org

wim@centr.org