DNSSEC Adoption

Icann 45, October 17th, 2012
DNSSEC story at AFNIC

✓ AFNIC operates 6 ccTLDs (.fr/.re/.pm/.tf/.yt/.wf) for now. More than 2.5 millions domain names registered by 600 registrars.

✓ AFNIC was chosen as back-end registry for 17 new gTLDs (DNSSEC is part of the package).

✓ DNSSEC was introduced in september 2010. DS registration launched in April 2011 (Web/EPP).

✓ Some uncommon technical choices (NSEC3+Opt-out+Dynamic Updates) lead to some outages during the first months of operation. Since 18 months, everything works fine with several key rollover per month.

✓ Our 6 ccTLDs are signed and contain signed records.
DNSSEC early-adopters at AFNIC

✓ …after one year of operation, only 50 signed zones with DS announced (16 registrars involved).

✓ We found out that other registrars had signed zones but without DS announcement.

✓ We decided to think of the best way to promote DNSSEC.

✓ DNSSEC training course, surveys, …

✓ Various answers to our first survey but allow us to plan our infrastructure’s growth. The goal is to deal with a large amount of signed zones to come.
Increase of DNSSEC registrations

✓ Since 6 months, constant growth...
  ✓ 10 new registrations with DS per day 6 months ago.
  ✓ 150 new registrations with DS per day since 3 months.

✓ Today, 24,000 signed zones

✓ 100% of these zones are well configured and validate.
**DNSSEC larger adoption**

- Some of our largest registrars plan to sign their complete portfolio… but not before late 2013… No large demand from their customers.

- Still very few proportions of french users use DNSSEC-validating resolvers.

- AFNIC is about to launch a 5 years DNSSEC promotion plan alongside with our registrars.
  - Too early to give details, but the content, objectives and planning will be defined by the end of this year, as well as the appropriate communication.

- In preparation for that, we plan to improve soon, our publication processe and our signature infrastructure.
Thank you!