



# .th DNSSEC Updates

Thai Network Information Center Foundation

# About .th

- Delegated since 1988
- More than 20 years experience
- Non-profit organization
- Very strict policy for the delegation
- For Thais only



# Signing .th

- DNS serve a lot more information than just the ip.
- Number of Spam and the Threat are rising.
- DNSSEC give the way to make DNS more secure but need to be well managed.
  - Protection against common DNS attacks
  - Provides assurance that DNS data is authentic
- To serve the public interest and to help people get started in the technology .th start signing their zone since March 2009.



# DNSSEC Deployment

- At the beginning sign 2 zones, .th and .in.th, on March 30, 2009
- Start signing .co.th, our biggest zone, on June 19, 2009
- Start signing .net.th on September 04, 2009
- Start signing .or.th on January 25, 2010
- First KSK roll over .th March 22, 2010
- Second KSK roll over .th May 30, 2011



# .th Signed zone

- NSEC is adopted at the beginning. The entire zone is signed. But, only take a short time to sign a zone (20k domains).
- The zone is signed from the unsigned file. Not a good idea to make update on every RRSIG in the zone. Bad for the zone transfer.



# .th Lessons Learned and Updates

- The Root is signed, much easier to maintain trusted anchor.
- NSEC3+Opt-Out is a better choice.
- If possible signing process should only be done on the updated entry in the zone.
- Quick fix to the zone transfer problem is to specify the start time in the RRSIG.
- Working on moving to NSEC3

