

# .th DNSSEC Deployment

Pensri Arunwatanamongkol  
THNIC Foundation

# Background

- .th has been registered in 1988
- One registry, one registrar and 36 resellers
- Restricted registration model
- Number of domains (as of 16.06.2009)
  - 7 sub domains under .th
  - 9,500 IDN.th domains
  - 34,500 domains in 3<sup>rd</sup> level



# Preparation

- DNSSEC Workshop in Dec 2006
- Consolidate all necessary information
- Select the methodology
- Prepare new machines
- Test run
- DNSSEC Workshop in Feb 2009
  - Policy session
  - Fix the steps and method



# Preparation (cont)

- Increase link bandwidth
- Inform .th name server operators to turn on DNSSEC
- Change of name servers
  - Replace the UUNET name server with two ISC name servers
- All name servers are running TSIG
- Submit keys to IANA, ISC (DLV)

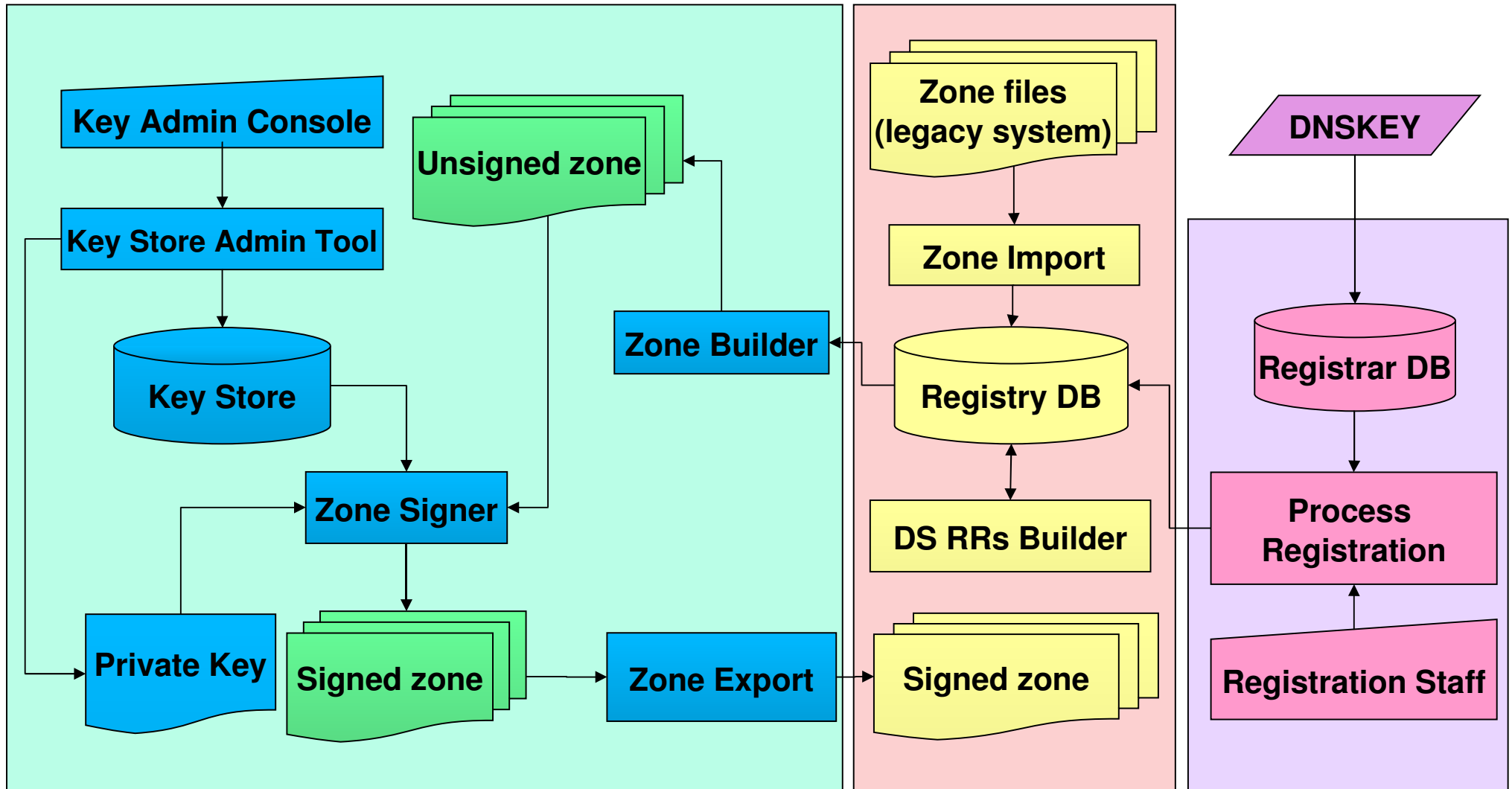


# Operations

- Bind 9.6.0-P1
- Keys RSA-SHA1 2048/1024 bits
- Sign Zone, e.g., .th, .in.th
- Key rollover period 1 year/2 months



# Infrastructure



# Timeline

25.2.2009 Public announcement

27.3.2009 Changed Name Servers

30.3.2009 .TH zone signed

06.4.2009 Trust Anchors has been listed on ITAR

5.2009 Communicate with ISPs and Resellers

1<sup>st</sup> reseller signed its domains

6.2009 Reseller signed customers' domains

# Status

- Number of signed domains
- Supported by the largest reseller
- Plan to have a campaign with 1<sup>st</sup> ISP
- Thai University Network will organize a workshop in August





# Future works

- Registration system to support DNSSEC key
- Automate ZSK rollover
- Contact and educate
  - ISPs
  - resellers
  - Banks and large companies
  - Government

