Migrating a high-value domain while maintaining inner peace

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Why migrate?

• We had a fairly complex set-up with shared keys

• We were using an old version of OpenDNSSEC that did not really support this
Guiding principles
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• Manual zone editing shall be kept to a minimum
  - Less room to make (stupid) mistakes in a high stress environment

• The migration must take place as quickly as possible
  - Preferable within a day
Preparing

old NS

\[ DS_0 \quad DS_N \]

\[ KSK_0 \quad ZSK_0 \quad RR \]

new NS

\[ DS_0 \quad DS_N \]

\[ KSK_0 \quad ZSK_N \quad RR \]

* copy from old NS
Preparing

Situation on source signer

- $KSK_{src,act}$
- $ZSK_{src,act}$
- $RR$

Situation on destination signer

- $KSK_{dst,act}$
- $DS_{dst,act}$
- $ZSK_{dst,act}$
- $RR$

$KSK_{dst,act}$
$ZSK_{dst,act}$
$RR$

$KSK_{src,act}$
$ZSK_{src,act}$
$RR$
Testing with a live domain
Actual migration

• We performed the actual migration on the 4th of July

• Migration took about one day

• Nobody noticed anything, and that is exactly what we had hoped for
• Providing input based on our experience to draft-koch-dnsop-dnssec-operator-change http://bit.ly/draft-koch

• Published detailed document about our process and blogged about it on our DNSSEC blog https://dnssec.surfnet.nl/
Questions? Remarks?

Read our blog: https://dnssec.surfnet.nl/