

'Keyrelay'

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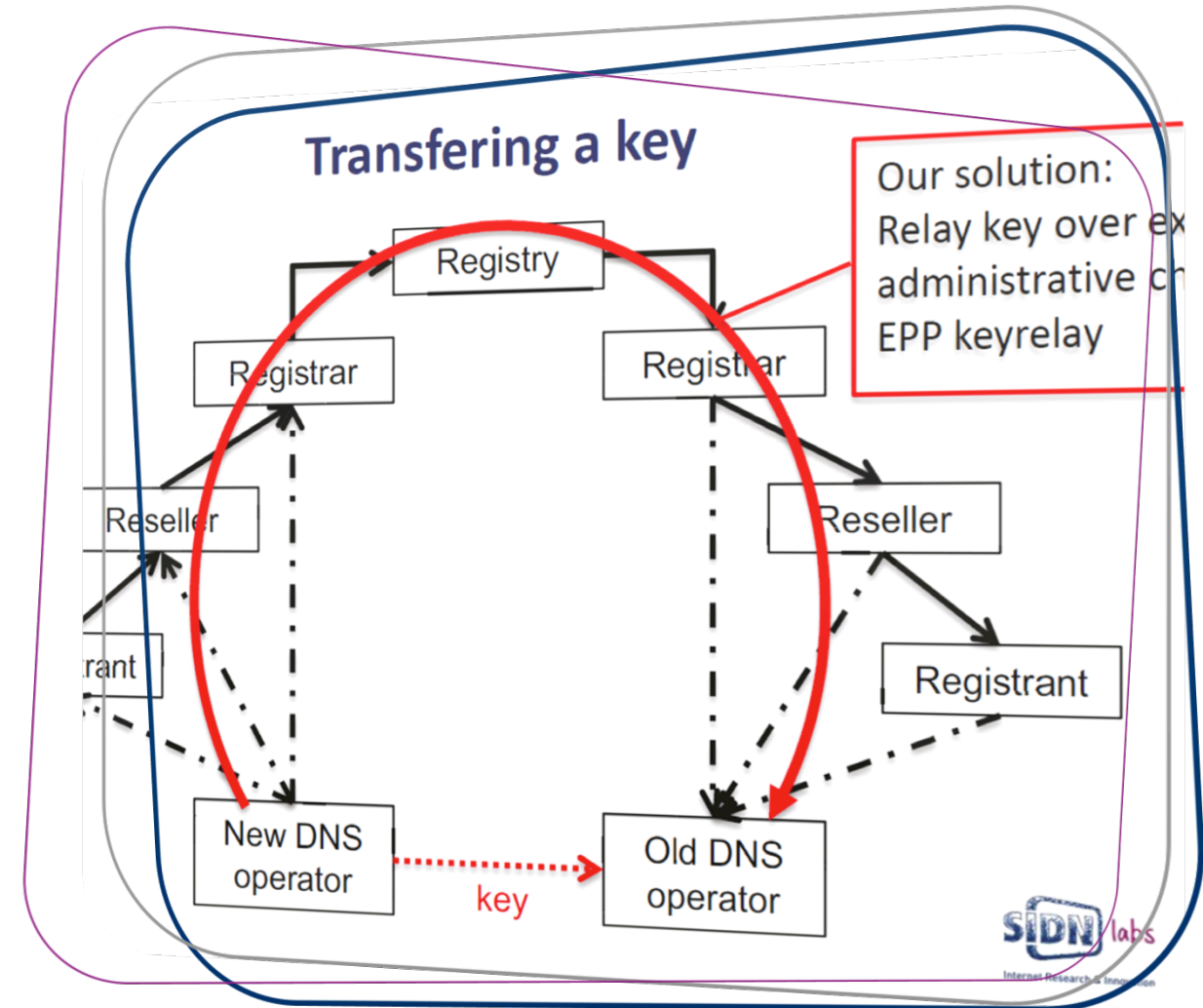
Agenda

- Secure key transfer
- Transfers in .nl zone
- What has happened?
- What's next



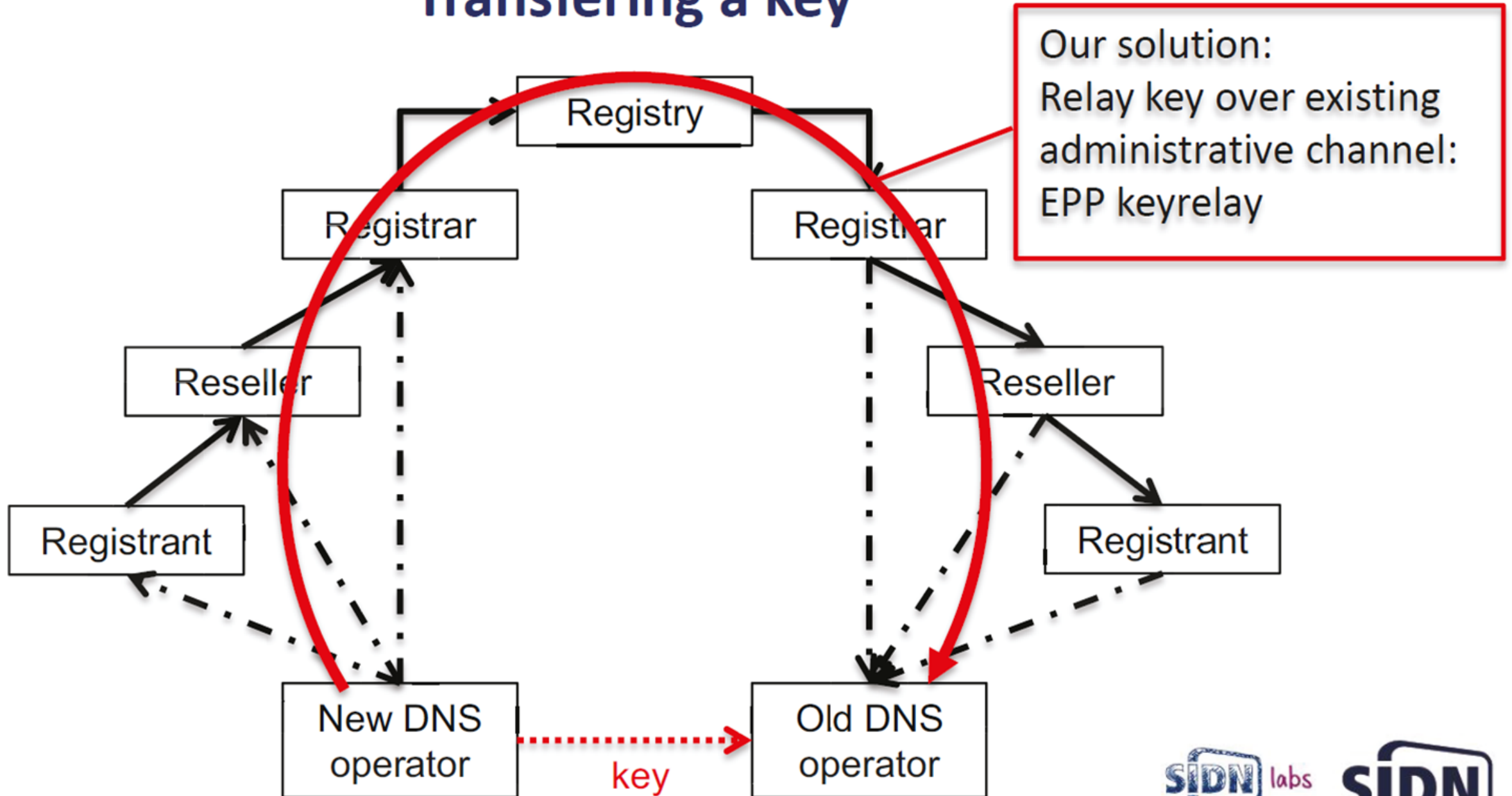
What is the problem we are trying to solve?

Change the DNS-operator of a domain while keeping the DNSSEC chain of trust intact



<https://tools.ietf.org/html/draft-koch-dnsop-dnssec-operator-change-06>

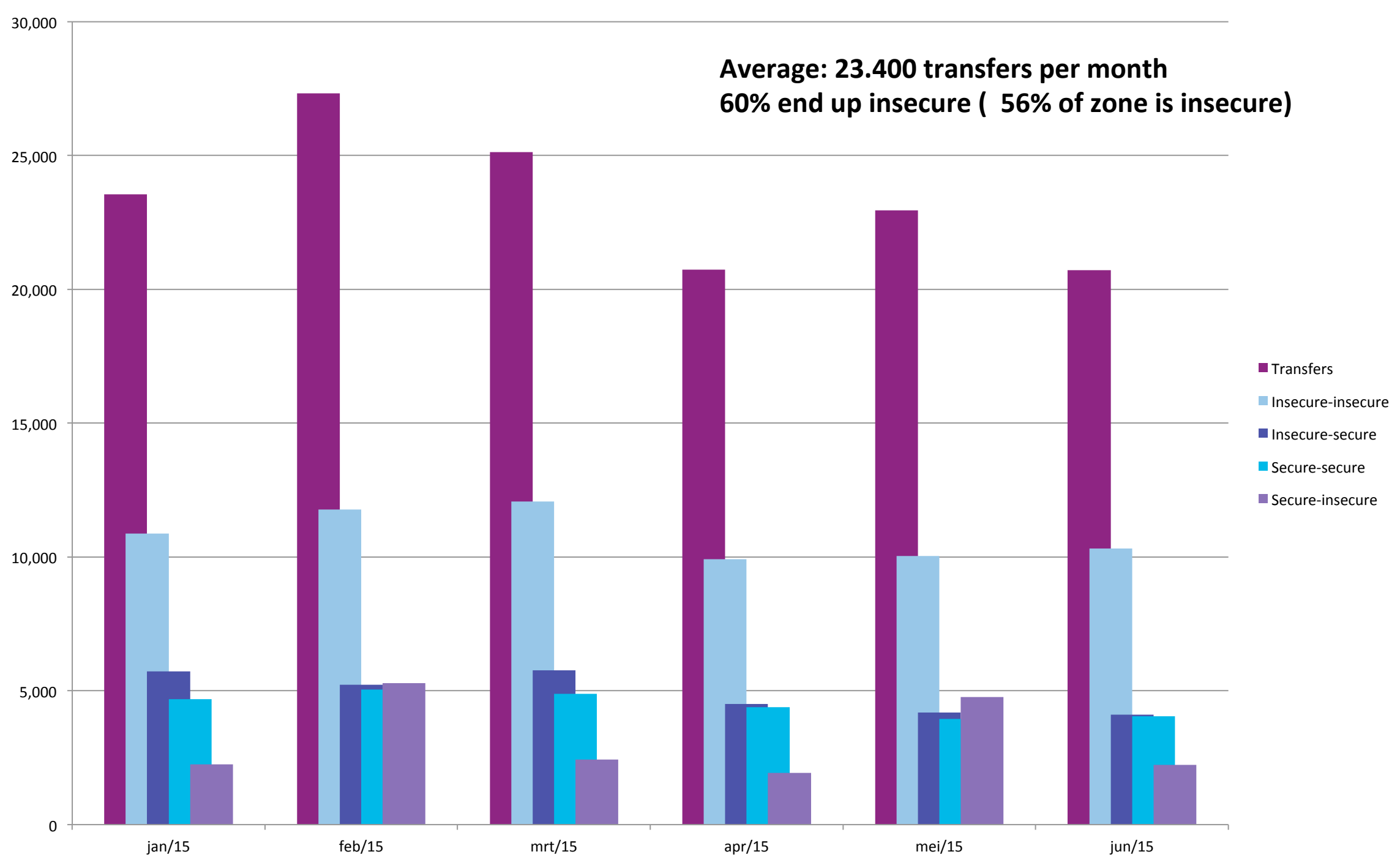
Transferring a key

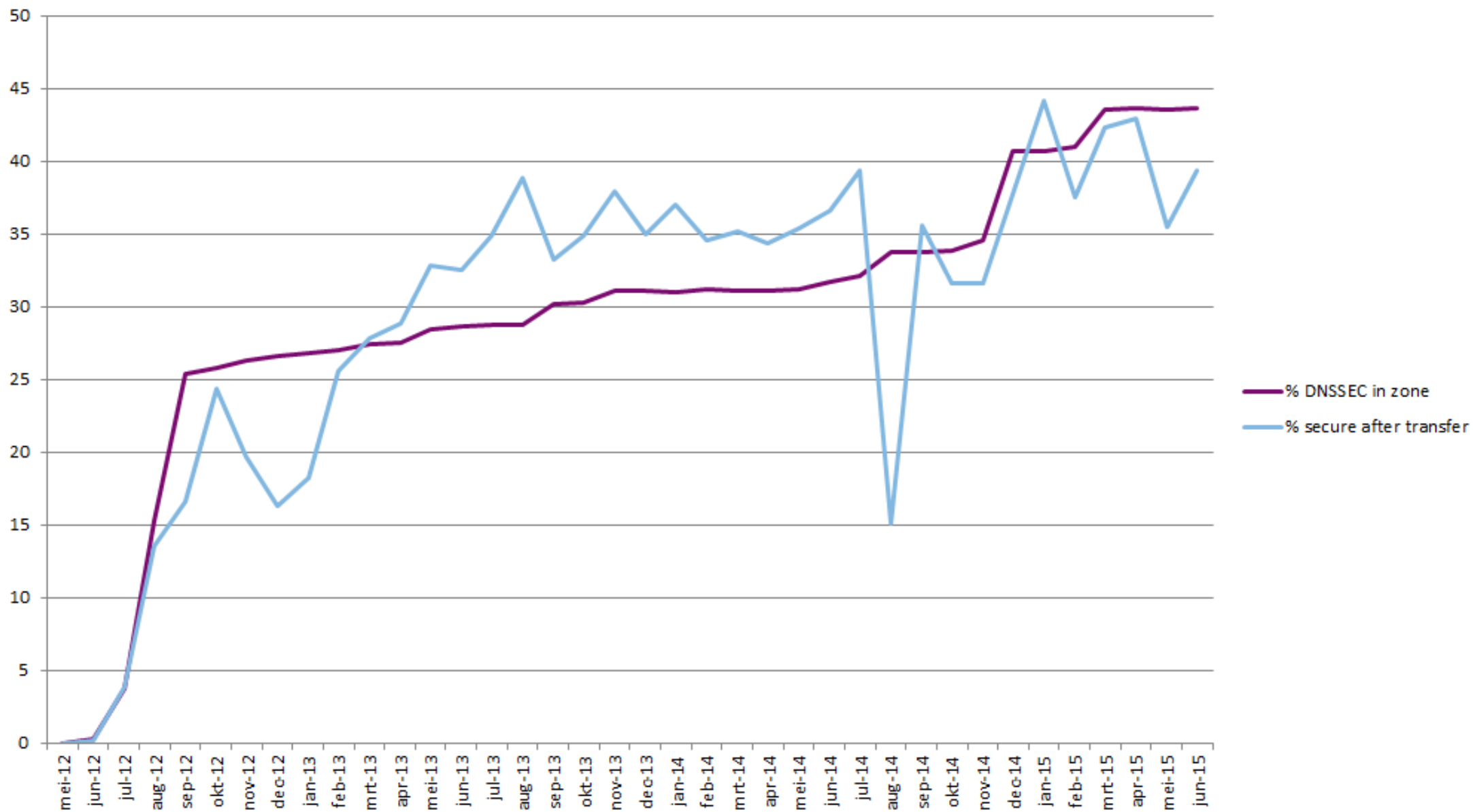


Transfers in .nl

- EPP Domain transfers
 - Change of Registrar
 - Change of DNS operator
- Definitions:
 - insecure = no DNSSEC keys in SRS after/before a transfer
 - secure = DNSSEC keys in SRS after/before a transfer

Average: 23.400 transfers per month
60% end up insecure (56% of zone is insecure)





Transfers in .nl

- Result are preliminary
 - Want to integrate with DNSSEC resolving (ENTRADA platform)
 - More in-depth analysis on how registrars handle DNSSEC key material
 - No validity check on DNSSEC keys
 - Add keyrelay usage to the picture

What has happened with keyrelay I-D

- XML Structure discussion closed
- Review by Board of Registrars .nl
- Introduced revoking and extending lifetime of DNSSEC key material
- Review by the WG: James Gould and Patrick Mevzek

What's next

- Update our current implementation (planned for end of 2015)
- In .nl focus shifting from implementing DNSSEC towards DNSSEC resolving
 - > secure key transfer is needed.
 - > proper key management is needed.
- Ready for WG last call?
- Interest in a generic relay concept in EPP?

Questions?

Thank you!

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