

# Whois in a post-GDPR world - The Norwegian model

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# Norid collects and processes customer data

- > To ensure that private individuals and organisations can register Norwegian domain names and maintain and transfer the registration within the parameters set by the domain name policy for .no
- > To manage the Norwegian top-level domain in a way that contributes to robust operation of the internet as an infrastructure



**The .no data model:**

**What data do we collect from our customers?**

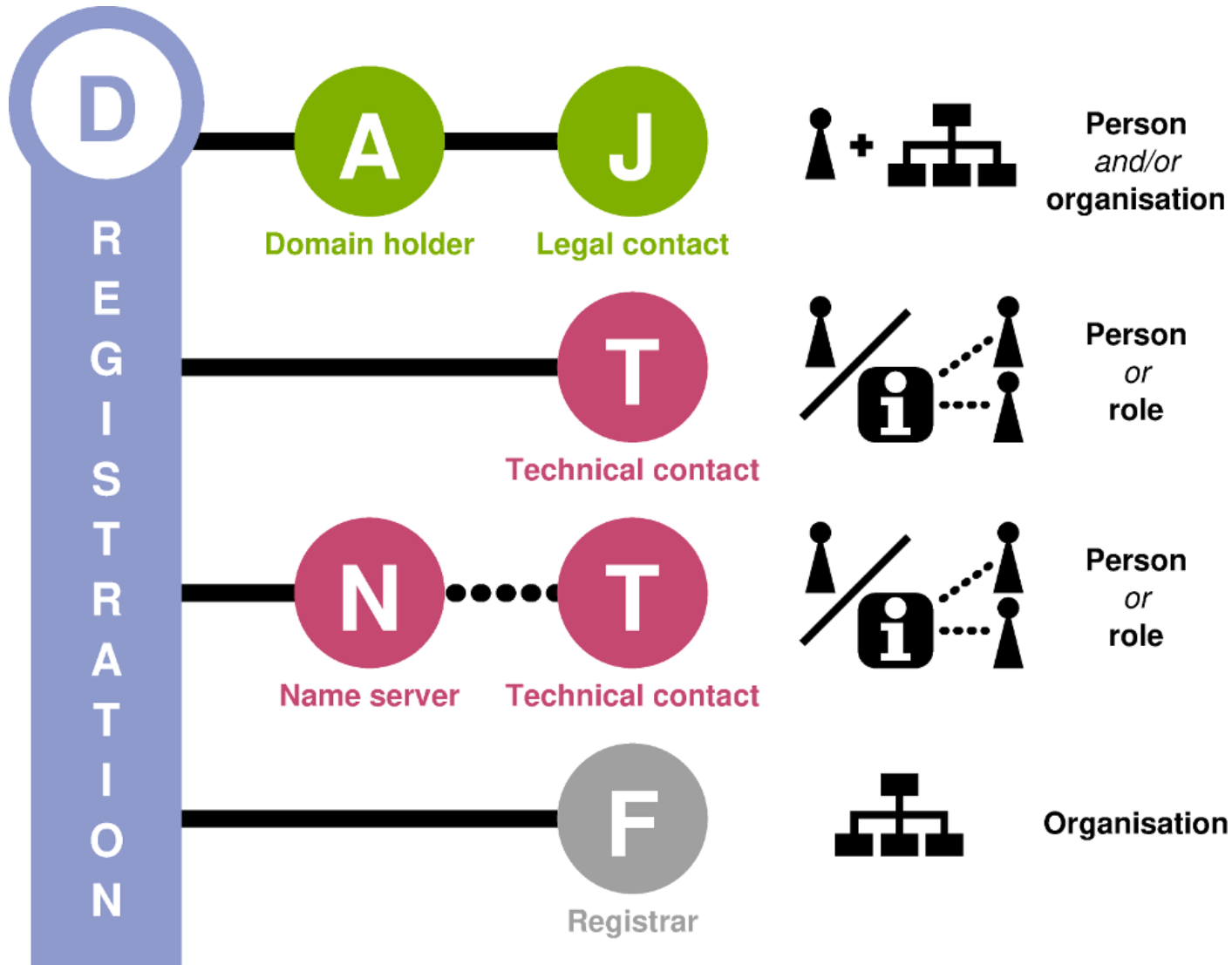
# At the core: information about the domain registration and the holder

<b>D</b> Registration
Domain name
Applicant declaration
Transfer code
(DNSSEC-information)
Registration date
Last update
Expiry date
Status code

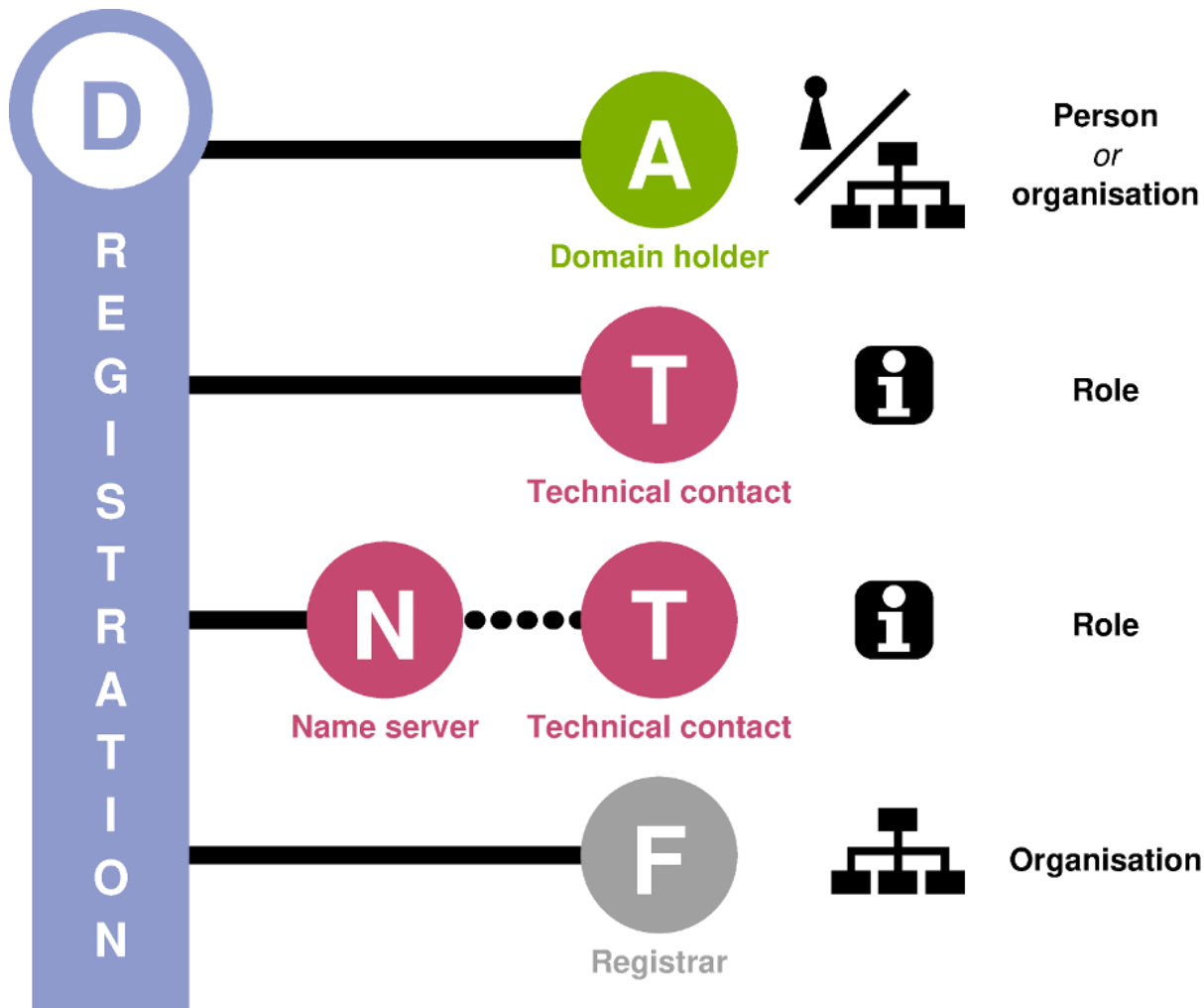
<b>A</b> Domain holder
Unique identifier
Organisation
Contact person
E-mail address
Postal address
Country
(Telephone number)

- > Domain holder can be an organisation or an individual
- > The holder is identified to Norid by a unique identifier, showing who has the right to use the domain
  - Organisations: number registered in Brønnøysund Register Centre
  - Individuals: national identity number. To restrict access to the holder's national identity number, Norid then creates a unique identifier that the holder uses in our systems and towards the registrar

# 2017: evaluating our data model



# 2018: new model, less data



- > Contact person name added for holders that are organisations
- > Tech-c *must* be role
- > Clean-up ongoing
  - 550 000 person objects removed from customer database
  - May 2018: 130 000 domains with a person as tech contact. Registrars are currently updating them with roles

# Registration data directory services offered by Norid

# Why offer a publically available look-up of domain names?

- > The purpose of the registration data directory service is to contribute to **resolving technical problems** where individual domains threaten the functionality, security and stability of other domains or the internet as an infrastructure. The purpose is also to **give the public an opportunity to contact the domain name holder**.
- > The service strengthens confidence in Norwegian domains:
  - easy to find point of contact when a domain causes technical problems
  - possible to find the party responsible for a registration (if organisation)
  - provides an opportunity to contact the domain holder
  - contributes to the combating of illegal content on the internet





# Overview of information available to the public

<span style="background-color: #8ebf00; color: white; padding: 5px;">A</span> Domain holder: Organisation <span style="float: right; font-size: 2em;">63%</span>	
Organisation number	
Organisation name	
E-mail address	
Postal address	
«Norway»	
(Telephone number)	

<span style="background-color: #8ebf00; color: white; padding: 5px;">A</span> Domain holder: Sole proprietorship <span style="float: right; font-size: 2em;">27%</span>	
Organisation number	
Organisation name	
E-mail address	
«Norway»	

<span style="background-color: #8ebf00; color: white; padding: 5px;">A</span> Domain holder: Private Individual <span style="float: right; font-size: 2em;">10%</span>	
E-mail address	
«Norway»	

<span style="background-color: #d93025; color: white; padding: 5px;">N</span> Name server	
Name	
IP-address	

<span style="background-color: #d93025; color: white; padding: 5px;">N</span> Technical contact	
Role description	
E-mail address	
Country	
(Telephone number)	

<span style="background-color: #333; color: white; padding: 5px;">A</span> Registrar	
Organisation name	
E-mail address	
Postal address	
Country	
(Telephone number)	
(Web site)	

<span style="font-size: 2em; border: 1px solid white; border-radius: 50%; padding: 5px; display: inline-block;">D</span> Registration
Domain name
(DNSSEC-information)
Registration date
Last update



# Using the strengths of different channels

- > Norid offers two different channels to the public where they can access information about a domain registration
  - whois.norid.no (port 43)
  - Web interface
- > The intended target and potential for misuse of each channel influences the form and amount of information that is presented



# whois.norid.no

## > Intended for the international technical community

- Contribute to resolving technical problems
- Well-known format - automated look-ups possible
- Each look-up gives only the information requested

## > Reducing potential for misuse

- CAPTCHA not possible and rate limits has limited effect
- Gives no info about the domain holder

```
hildring% whois -h whois.norid.no stolav.no
% By looking up information in the domain registration directory
% service, you confirm that you accept the terms and conditions of the
% service:
% https://www.norid.no/en/domeneoppslag/vilkar/
%
% UNINETT Norid AS holds the copyright to the lookup service, content
% layout and the underlying collections of information used in the
% service (cf. the Act on Intellectual Property of May 2, 1961, No.
% 2). Any commercial % use of information from the service, including
% targeted marketing, is prohibited. Using information from the domain
% registration directory service in % violation of the terms and
% conditions may result in legal prosecution.
%
% The whois service at port 43 is intended to contribute to resolving
% technical problems where individual domains threaten the
% functionality, security and stability of other domains or the
% internet as an infrastructure. It does not give any information
% about who the holder of a domain is. To find information about a
% domain holder, please visit our website:
% https://www.norid.no/en/domeneoppslag/

Domain Information

NORID Handle.....: ST04025D-NORID
Domain Name.....: stolav.no
Registrar Handle.....: REG888-NORID
Tech-c Handle.....: NH67R-NORID
Name Server Handle.....: NSXN16H-NORID
Name Server Handle.....: NSXN18H-NORID

Additional information:
Created:          2002-04-04
Last updated:    2018-05-04
```



# Web interface

- > Intended for the public
  - Provides opportunity to contact the domain holder (and resolving technical problems)
  - A look-up gives all publically available info regarding a domain: registration info, domain holder, registrar, tech-c and technical setup
  - Emphasize most important info
- > Reducing potential for misuse
  - CAPTCHA and rate limits

## Domain lookup

Search in all Norwegian domain names.

DOMAIN NAME  
**stolav.no**

Registered: 04-04-2002  
Last updated: 04-05-2018

HOLDER  
**ST. OLAVS HOSPITAL HF**  
Organization number [883974832](#)

Postboks 3250 Sluppen  
NO-7006 Trondheim  
NORWAY

[post@stolav.no](mailto:post@stolav.no)  
[trond.grimstad@stolav.no](mailto:trond.grimstad@stolav.no)  
+47 06800  
+47 913 68 507

Incorrect or outdated information? Contact your registrar to correct.

REGISTRAR  
**Norsk Helsenett SF**

Abels gate 9  
NO-7030 Trondheim

[kundesenter@nhn.no](mailto:kundesenter@nhn.no)  
<http://www.nhn.no>  
+47 24 20 00 00

▼ TECHNICAL CONTACT

▼ NAME SERVERS

▼ DNSSEC

By looking up information in the domain registration directory service, you confirm that you accept the [terms and conditions of the service](#).

UNINETT Norid AS holds the copyright to the lookup service, content, layout and the underlying collections of information used in the service (cf. the Act on Intellectual Property of May 2, 1961, No. 2). Any commercial use of information from the service, including targeted marketing, is prohibited. Using information from the domain registration directory service in violation of the terms and conditions may result in legal prosecution.

# Less information about individuals

## DOMAIN NAME

**Isov.no**

Registered: 14-10-2018

Last updated: 14-10-2018

## HOLDER

The holder of this domain is a private person, hence the lookup service will display only limited information. Read more about the [lookup service and privacy](#).

The holder has postal address in Norway

[zp4m5uqbb5se@privacy-protection.email](mailto:zp4m5uqbb5se@privacy-protection.email)

Incorrect or outdated information? Contact your registrar to correct.

## REGISTRAR

**Domeneshop AS**

Christian Krohgs gate 16  
NO-0186 Oslo

[kundeservice@domeneshop.no](mailto:kundeservice@domeneshop.no)

<https://www.domeneshop.no>

+47 22 94 33 33

▼ TECHNICAL CONTACT

▼ NAME SERVERS

▼ DNSSEC

By looking up information in the domain registration directory service, you confirm that you accept the [terms and conditions of the service](#).

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# Domain overview

> The web interface also allows look-up of an organisation number

- Domain names per registrar
- DNSSEC-status

> No overview of domains registered by an individual

## Domain lookup

Search in all Norwegian domain names.

883974832



ORGANIZATION NUMBER  
883974832

**ST. OLAVS HOSPITAL HF**

*Subscribes on 47 domain names registered on 7 registrars*

### Domain names per registrar

Show DNSSEC status

33 of 47 domain names are DNSSEC secured ✓

<b>▼ Digital Garden AS, FastName.no</b>	<b>▼ Visma IT &amp; Communications AS</b>	<b>▼ EVRY AS</b>
① affu.no ✓	① e-konsultasjon.no	① hjerteklinikken.no
① houpe.no ✓		① stoh.no
		① stolavs.no
<b>▼ Domeneshop AS</b>	<b>▼ Telenor Norge AS</b>	
① behandlingshjelpemidler.no ✓	① 113-midtnorge.no	<b>▼ UNIWEB.NO AS</b>
① biobank1.no		① broset.no ✓
① fedmeforskning.no ✓	<b>▼ Norsk Helsenett SF</b>	① brosetchecklist.no ✓
① fertilitetsseksjonen.no ✓	① driftsservice.no	① brosetscale.no ✓
① for-stolav.no ✓	① hjerteinfarktregisteret.no	① brøset.no ✓
① forskningsposten.no ✓	① nokbil.no	① bvchecklist.no ✓
① halsmandeloperasjoner.no ✓	① norkar.no	① nasjonalrettspsykiatriskenhet.no ✓
① kostverktøyet.no ✓	① norscir.no	① nordicforensic.no ✓
① kostverktøyet.no ✓	① norskjerneslagregisteret.no	① norskrettspsyk.no ✓
① ners.no ✓	① stolav.no	① norskrettspsykiatriskenhet.no ✓
① norcrin.no ✓		① rettspsykiatriskenhet.no ✓
① normit.no ✓		① rettssakkyndig.no ✓
① nsfm.no ✓		① riskassessment.no ✓
① rvtsmidt.no ✓		① sife.no ✓
① sinnemestring.no ✓		① sikkerhetsseminaret.no ✓
① snurra.no ✓		① violenceprediction.no ✓
① stolavcatering.no		① violenceprevention.no ✓

# What about layered access?

- > We already have layered access (sort of)
  - Registry } Part of registration
  - Registrars } «ecosystem»
  - Public (through two separate services)
- > Currently considering need for further layers
- > Changing technology: Whois is dead - long live RDAP?



# More information

## > Domain Lookup for .no

- Web interface

<https://www.norid.no/en/domeneoppslag/>

- Terms and conditions

<https://www.norid.no/en/domeneoppslag/vilkar/>

## > Customer data we process

<https://www.norid.no/en/personvern/behandling-kundedata/>

## > The lookup service and privacy

<https://www.norid.no/en/personvern/domeneoppslag/>





# Thank you

**Hilde Thunem**

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