

New data model

Current model vs. new model - changes

Why change the data model?

Legislative changes:

- General Data Protection Regulation (GDPR) from the EU, as will be new national legislation from May 2018.
- Norid will comply with new privacy regulations.
 - In addition: supervision may impose severe fines for violations.
- Requirements for internal control systems.
- Informed and voluntary consent from the subscribers.
 - Must be able to explain what the collected data will be used for.

Norid looks at the world from two places of view:

- Norid's own needs, as a registration unit.
- The requirements for the registration system as a whole - in particular registration unit + registrars

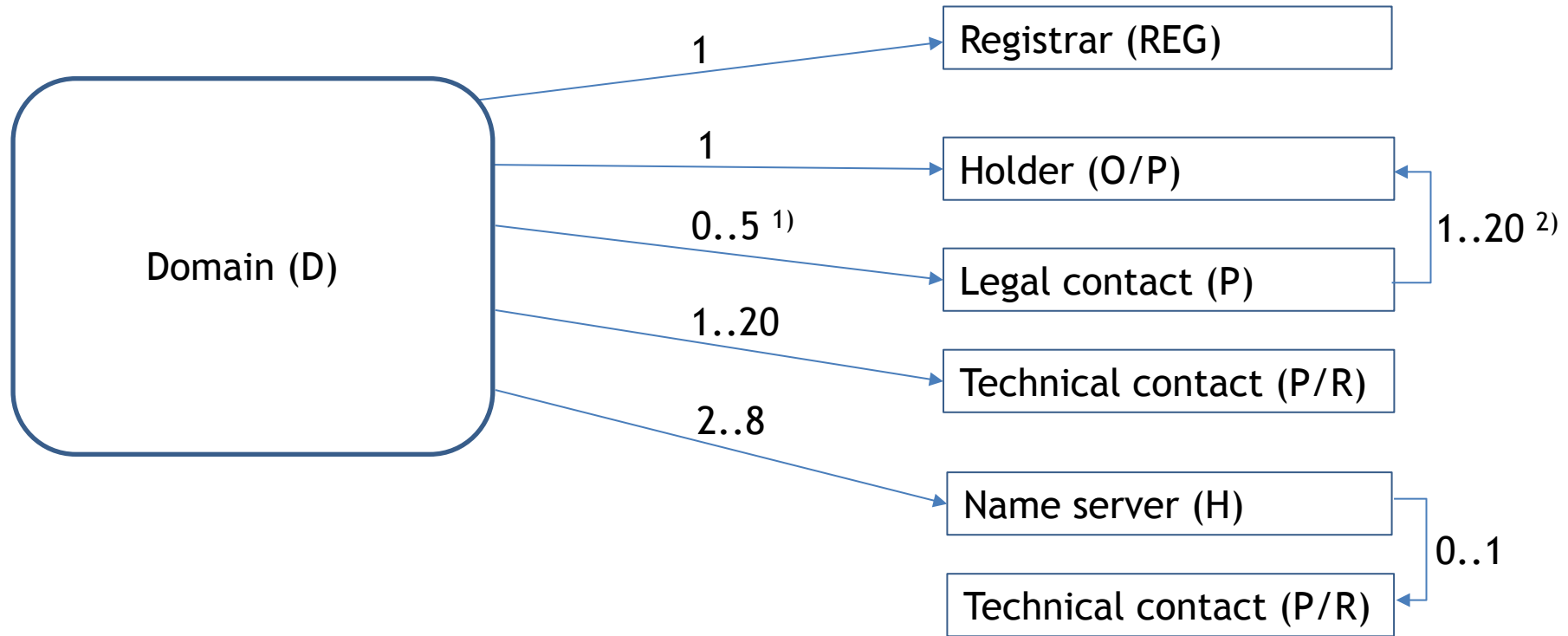
Some goals

- Do not collect and save data which is never used (by Norid or other).
- Increase the quality of data that is actually collected.
- Simplify data maintenance.
- No change to the EPP XML schemas, but rather adjust EPP policy code.
- We will need to adjust which data that may be shown to the public and other users over lookup protocols like Whois.

The holder is still responsible for maintenance of his data, assisted by his registrar.



Current data model (1)

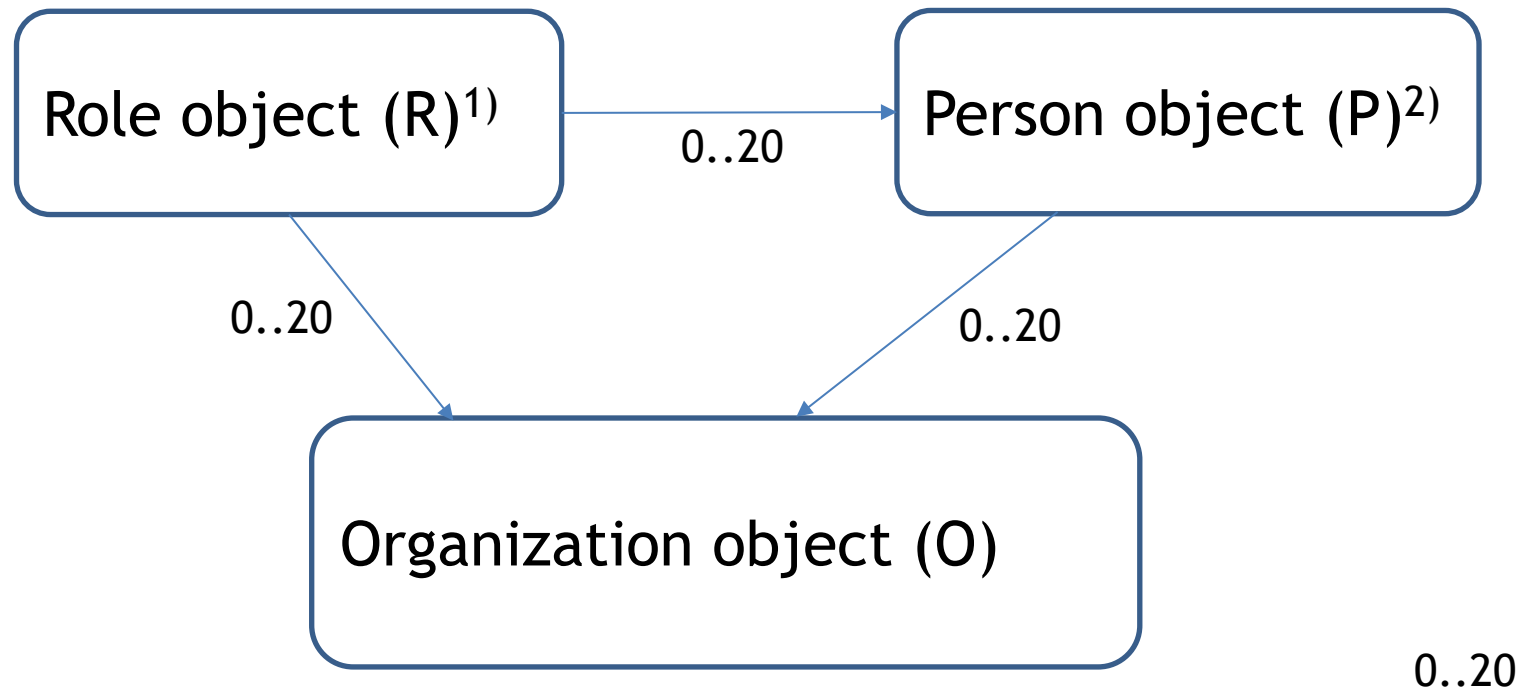


D: Domain object
P: Person object
O: Organization object
R: Role object
H: Name server (host) object
REG: Registrar object

¹⁾ A legal contact is required if the holder is an organization. A legal contact is not allowed if the holder is a person.

²⁾ A legal contact must have a relation to the holder organization

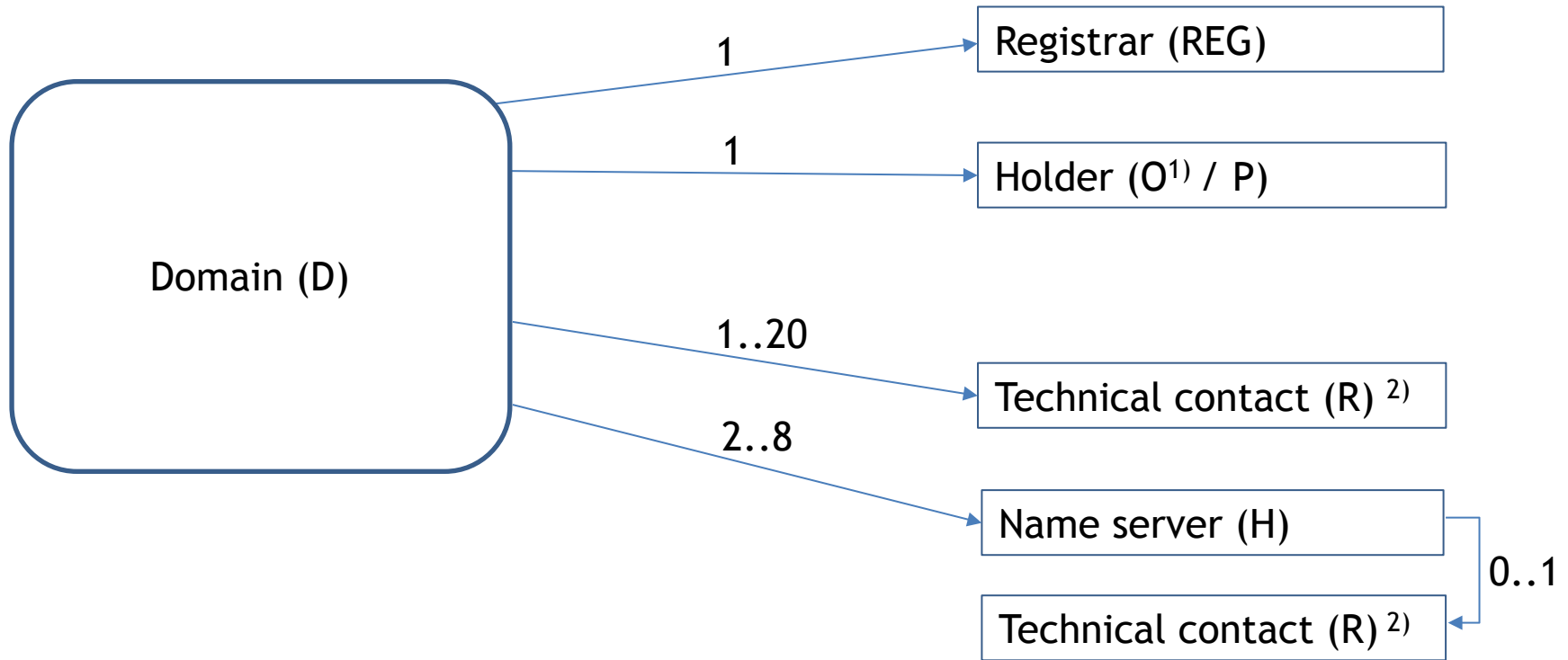
Current data model (2): Role/person/organization relations



¹⁾ A role object is used to represent a role (function), like 'Hostmaster'. A role object may refer to one or more person objects representing the persons enforcing the role. A role object may also refer to one or more organizations where the role is related or enforced.

²⁾ A person object is used to represent a person. A person object may also refer to one or more organizations that the person represents.

New data model (May 2018)



D: Domain object

P: Person object

O: Organization object

R: Role object

H: Name server (host) object

REG: Registrar object

¹⁾ For organization holders, the separate legal object is removed, and the name of the legal contact is included in the organization object.

²⁾ A technical contact must be a role.

Relations between roles, persons and organizations are removed.

New data model: Contact objects

- Keep typing of contact objects ('O', 'P', 'R').
- Require reference to a unique ID for organizations objects (O) and person objects (P)
- Remove fax numbers
- Remove (possibility of) relations between contact objects:
 - Role to person.
 - Role to organization.
 - Person to organization.

New data model: Contact objects

- Merge legal contact and holder organization, thus remove the need for a separate legal contact object
- Compensate the merge by allowing multiple versions of holder objects per registrar
- Technical contacts must be a role.
- An organization object and a person object now only makes sense as a holder object. Thus the policy will require that a unique ID is specified. The ID must be the Central Coordinating Register for Legal Entities (Brønnøysund Register Centre) organization number for an organization, and the Norid PID for a person.
- For contact data, the EPP fields `contact:name` and `contact:org` must be used to specify the names of an organization and a person:

```
<contact:name>John Doe</contact:name>  
<contact:org>Example Inc.</contact:org>
```

Contact type	contact:name	contact:org
R	Role name	empty
P	Person name (must match the name for the person in the PID register)	empty
O	Legal person name	Organization name (must match the name for the organization in the Brønnøysund register)

New data model: Software changes

- Norid will update relevant documentation to describe the changed requirements.
- Norid will change the EPP-client (and Net-DRI) to support the new data model.
- The registrars need to update their EPP system to the new data model.

New data model: Conversion from current model to the new model

- A test system that supports the new data model will be provided in good time (3-4 months before the transition).
- The registrars are strongly encouraged to perform data conversion by themselves. A version of the registry system where both data models are supported will be offered for this purpose.
- After a period, only the new data model will be supported.
 - A forced data conversion will then be performed of any remaining data objects violating the new data model.

New data model: Implementation project

- An implementation project is responsible for implementing the actual changes.
- Please follow the project pages at:

<https://www.norid.no/en/registrar/system/videreutvikling/data-model-implementation-project/>