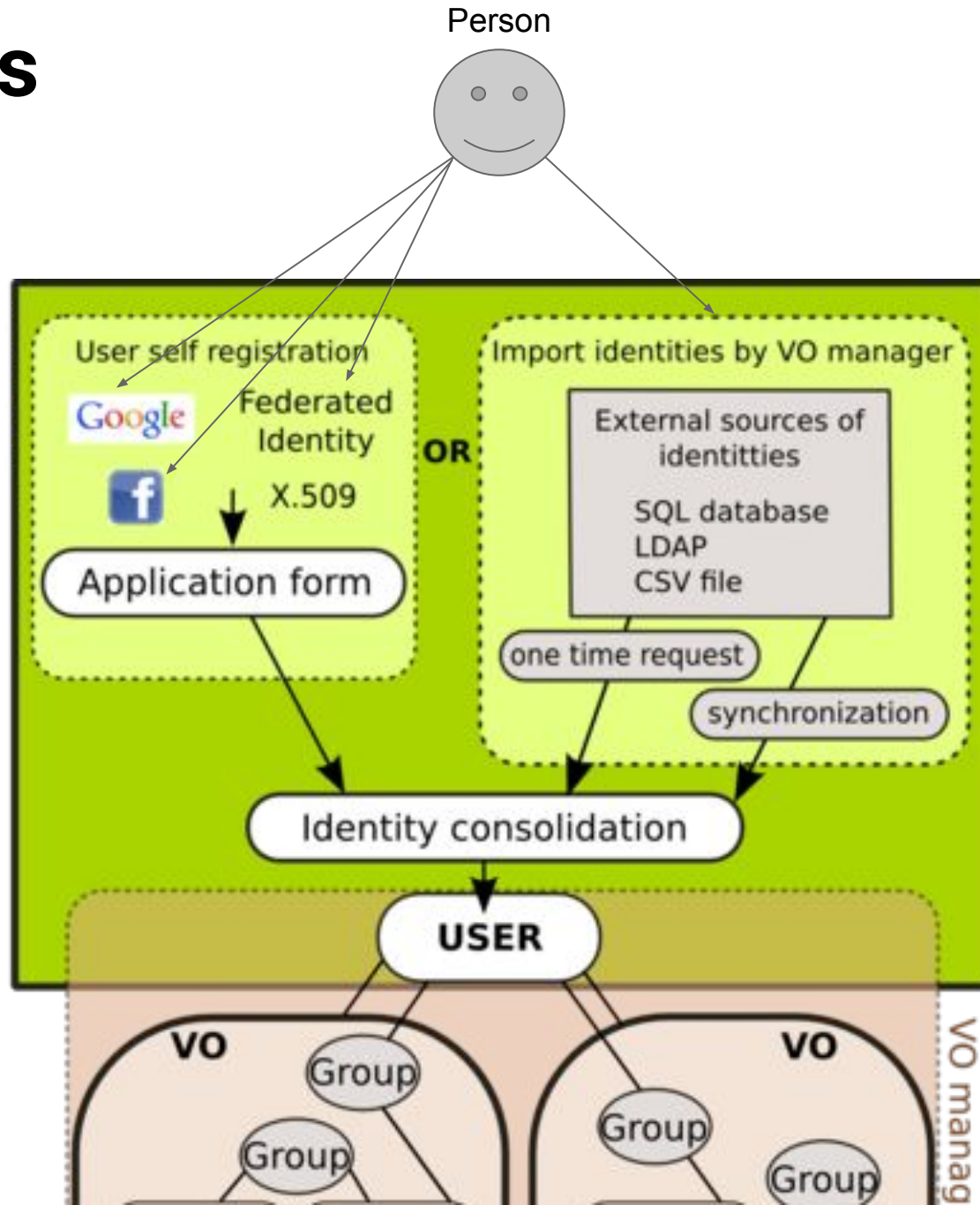




VO Administrator

Michal Procházka, Michal Šťava,
Slávek Licehammer

Entities





User

- Represents physical person
- Ideally every person has only one user representation in Perun
- User can be identified using various digital identities
 - social/federated identity, digital certificate, ...



Virtual Organization (VO)

- Basic entity for users categorization
- Special type of a group
- Defined membership rules
- Defined purpose
- At least one VO administrator
- Entity which can have an agreement with service providers



Member

- Representation of user in VO
- Must obey VO membership rules
- Usually has limited lifetime
- One user can be member in several VOs



Group

- Categorization entity inside the VO
- Provides delegation support
- Basic entity used for access control



User lifecycle

1. Registration/import
2. Membership in VO
3. Membership in Groups
4. Access to the services
5. Membership renewal
6. Suspension/membership expiration



How to become a user

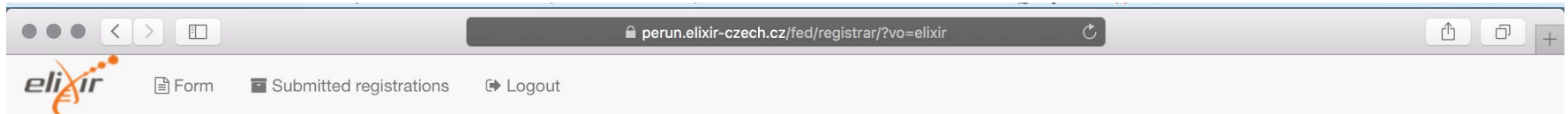
- Possess existing external identity supported by Perun
 - federated identity, social identity, digital certificate, ...
 - user's enrollment
- Import from existing identity management system
 - direct connection to the external system



Enrollment management

- Every VO can define its own application form
 - request various information from the users
- Initial vs. extension application form
- Automatic vs. manual approval
- Text and notification customization
- Multilingual support

Example of registration form



The screenshot shows a web browser window with the address bar displaying `perun.elixir-czech.cz/fed/registrar/?vo=elixir`. The browser's address bar includes navigation buttons (back, forward, home) and icons for sharing and printing. The page header features the ELIXIR logo on the left and navigation links for "Form", "Submitted registrations", and "Logout" on the right.

Registration

Name *

Pavel Procházka

E-mail *

 prochazka.pavel@gmail.com

Email with verification link will be sent to provided email address.

Nickname *

Nickname will be used by some of the ELIXIR services, e.g. wikis.

> Submit

Fields with * are mandatory.



Import

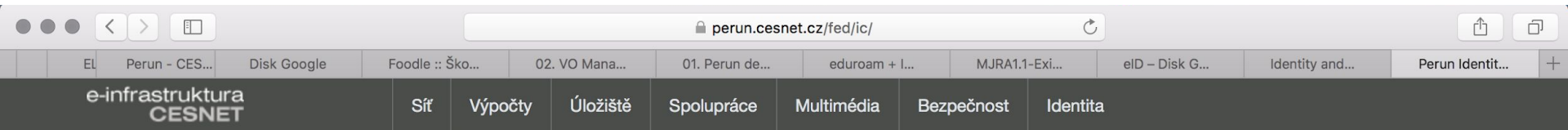
- Users import from existing identity management system (external source)
- Periodic vs. one time
- Mapping rules between Perun and external source
- Various protocols supported
 - LDAP, SQL, XML, CSV, AD, ...



Account linking

- User can possess more identities
- Perun is able to link/unlink those identities
 - Heuristic search
- User can access Perun and its components with any of linked identity
- Identities can be transferred to end services





Account linking example



Your current identity is

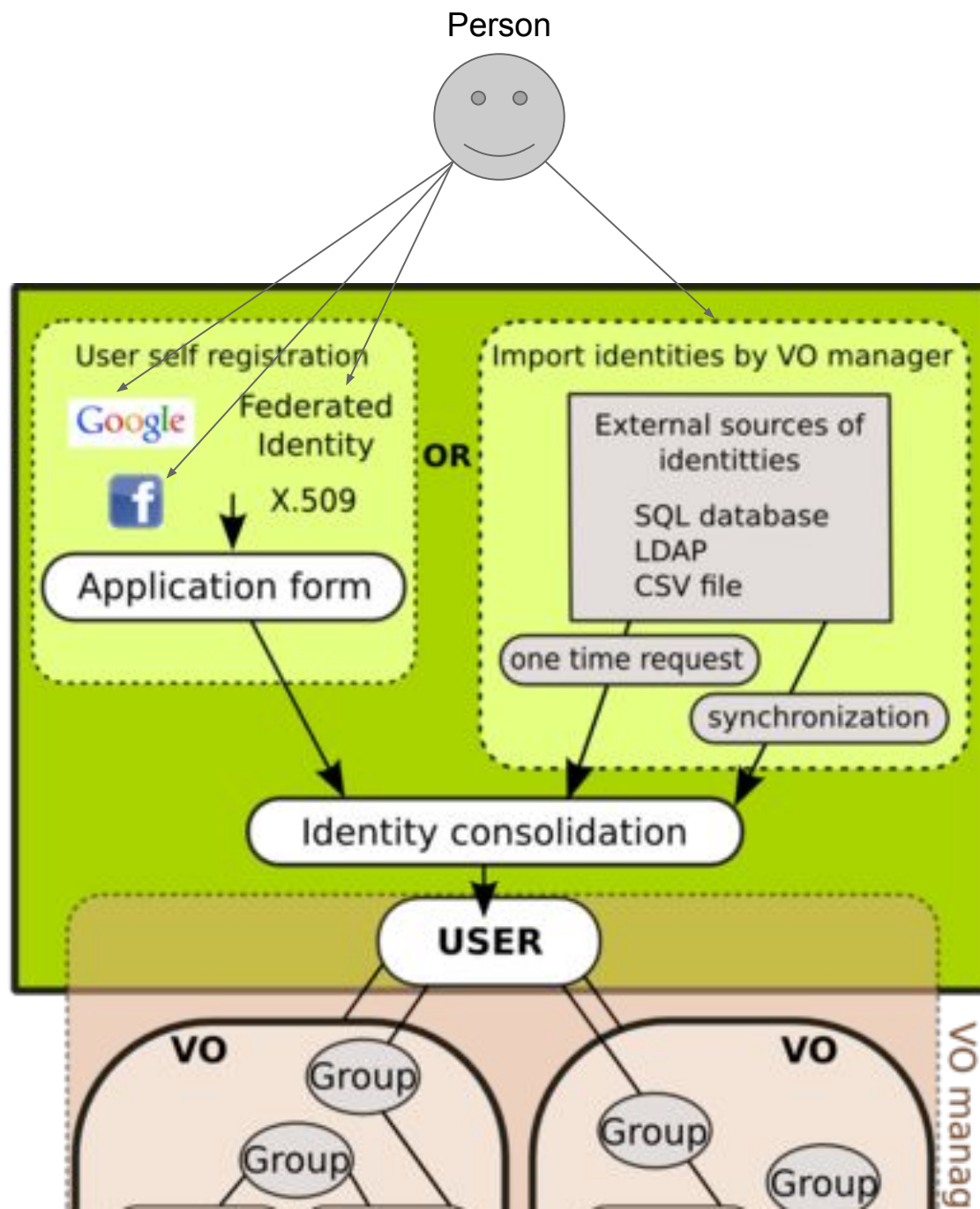
RNDr. Michal Procházka at CESNET, z.s.p.o.

Join with

 Institutional identity
 Personal certificate
 Kerberos login
 Social identity

Powered by  **Perun** -- © CESNET, CERIT

Support at perun@cesnet.cz





User's roles

- Perun admin
 - God
- VO admin
 - manages whole VO including Group and all associated entities
- Group admin
 - manages group membership
- User
 - self-management