

**Requirements of a public  
*and* university Library for  
authentication and  
authorization  
infrastructures**

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# ETH-Bibliothek

- **Main library of ETH Zürich**
- **Collection:**
  - **Science & Technology**
  - **5.400.000 documents**
  - **7.500 current periodicals (2.000 e-journals)**
- **50.000/140.000 active/registered users**
- **400.000 loans per year**

# **Roles of ETH-Bibliothek**

- **Public library**
- **University library**
- **National information center for science & technology**

# Different customer groups

- **Members of own university (ETH Zürich)**
- **members of other Swiss universities and research institutions (e.g. ETH-Rat)**
- **commercial customers**
- **unknown walk-in users**

# Trends

- **Virtual Campus CH**
- **ETH World**
- **Consortium of Swiss Academic Libraries**  
**([lib.consortium.ch](http://lib.consortium.ch))**

# **Levels of access to electronic media**

- **anonymous access for walk-in users**
- **group access (students, staff / institutes, universities)**
- **individual access (persons)**
- **roaming access (persons not at their home site)**

# Licensing

- **ETHZ: virtual “site” license politics**
- **Publishers: fiction of geographical campus**
- **Union of individual and geographical access rights ?**

# Problems

- **Persons with (temporary) multiple identities**
- **Groups at "wrong" locations (ETHZ institutes at UniZH, CSCS)**
- **Cooperation projects, joint venture institutions , competence centers (e.g. neurozh.ch)**



# Current solutions

- **general: IP-based authentication only**
- **reverse DNS not possible at publishers and/or customers sites**
- **restrictions for class B or C nets**
- **firewalls for more than one legal body (admin.ch)**

# Central solutions

- **central proxies ([proxy.ethz.ch](http://proxy.ethz.ch))**
- **specialised proxies  
([landwasser-viadukt.ethz.ch](http://landwasser-viadukt.ethz.ch))**

# Future solutions

- **AAI for individuals**
- **AAI with group ID ?**
- **“AAI” for anonymous users ???**