

  

# SWITCH

The Swiss Education & Research Network

## **SWITCHpki Role and Strategy**

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- **Security = CERT + Middleware**
- **CERT: Deal with the bad guys once they show up**



- **Middleware: Provide secure services that let the good guys do the work.....while keeping the bad guys out**



- **Middleware: Provide secure middleware services for e-Infrastructure in the Swiss higher education and research sector**
  - AAI
  - Grid
  - Mobile
  - PKI
- **Focus: inter-institutional benefits**
- **SWITCH - Teleinformatikdienste für Lehre und Forschung**

## Operation of a PKI infrastructure for server certificates, which is

- The first choice for an inter-institutional PKI for our partners
- The first choice for universities, who do not want to operate their own PKI

**Comment: No competition for university internal PKIs, focus on inter-institutional requirements**

## Operation of a PKI infrastructure for user certificates, which

- Satisfies the requirements for user groups, that are distributed over several universities
- Is focused on a certain area of applicability, that is relevant for SWITCH
  - Comment: grid

## Participation on a few PKI test projects, which

- Involve several universities
- Are pilots for possible future applications

- **Collaboration with one or two commercial CAs,**
  - Whose CA are user friendly (in particular pre-installed trust anchors)
  - Who are well established in the commercial world
- **Operation of a CA, if and only if**
  - No commercial CA can satisfy the requirements
  - The operation of this CA is automated and cheap
    - Comment: SLCS, possibly a CA for long-term client-certificates automated through SWITCHaai
- **RA operation done by universities wherever possible**

# Matrix for Services

Client Group	Service		
	Server Certificates	User Certificates	
		Long-lived	Short-lived
General User Group	SCS	Currently supported within pilot applications	N/A
Grid User	SwissSign	SwissSign	SLCS