

# AAA: Enhancing AAI with the third A

AAI Info-Day 2009



# SWITCH

Serving Swiss Universities

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Berne, 5. May 2009

# Agenda

- AAA/SWITCH projects
- AMAAIS
  - Motivation and Goals
  - Use Cases
  - Architecture

# Enhancing AAI with the third A

- AAA/SWITCH “e-Infrastructure for e-Science”
  - Funding period: 2008-2011
  - AAA: Functional enhancements of AAI (accounting, auditing, assurance levels)
  - E-Learning
  - Grid
  - Support for virtual organizations (VO)
- 3 AAA projects have started

<http://www.switch.ch/aaa/projects>

# AMAAIS

- Accounting and Monitoring of AAI-Services
  - Collaboration partners
    - UZH, Communication Systems Group, Prof. Burkhard Stiller (lead)
    - ETH Zurich, IT Services
    - SWITCH
- Duration of the project
  - 18 months, started 1.4.2009
- Goal
  - Extend AAI with accounting functionalities
- Use cases
  - Accounting for printing and SMS services (ETH Zurich)
  - Usage statistics (SWITCH)

# Motivation and Project Goals

- Accounting and Authorization Infrastructure
  - No information about service usage
  - No statistical data about AAI usage
  - The first two 'A' provide basis for accounting
  - Widely deployed infrastructure
- Project Goals
  - Accounting and monitoring of AAI and service usage
  - Mapping of usage to users and/or organizations
  - Statistical analysis of AAI usage
  - Enable charging and billing

# Use Cases

- **Monitoring of the AAI infrastructure**
  - Collection of service-independent accounting attributes
    - User identifier, SP identifier, IdP identifier (home organization)
    - Date and time, Success/failure
    - Accessed service and attribute assertion
  - For the management and monitoring of AAI services
  - Visualization and integration in network management tools
- **Accounting for printing service**
  - Collection of service-specific accounting attributes
    - Number of pages, BW/color, type of printer
  - Integration with existing printing services (ETHZ)
- **Accounting for SMS-Gateway service**
  - Collection of service-specific accounting attributes
    - Number of SMS

# Accounting Architecture

