AAA: Enhancing AAI with the third A AAI Info-Day 2009



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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

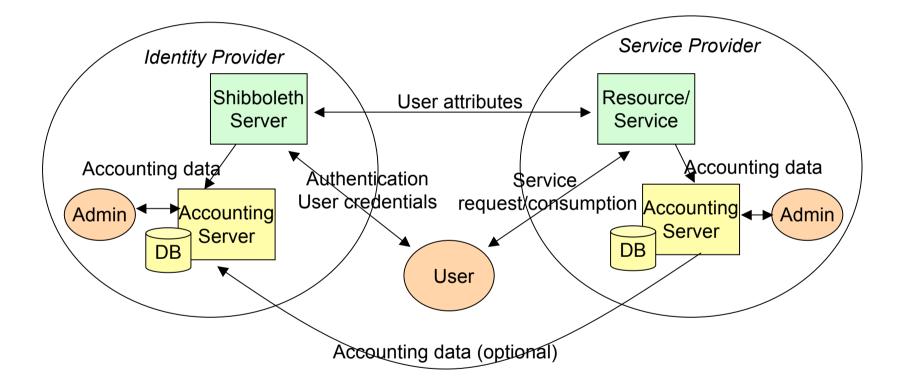


Use Cases

- 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





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