ACS
Chemistry for Life®

Evolving Identity & Access Management at ACS

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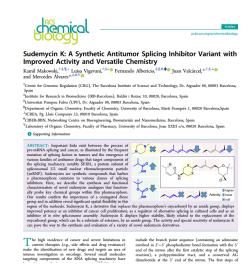CNI Meeting, Washington D.C.

ACS Overview

- ACS is the world's largest scientific society with nearly 157,000 members.

- ACS is a major publisher of journals in chemistry and related sciences.

- ACS is a major provider of scholarly research and discovery tools.

- *Customer authentication largely reflects these three organizational pillars.*

Username: janesmith
Password: 4^!`f#7<+$D

Username: jsmith
Password: x84*&&#j=+

Username: sci00325
Password: nv4*1#tof=^

Password Proliferation

THE PROBLEM WITH

Password Proliferation

60% of people say they cannot memorize all of their passwords.

If It Ain't Broke...
61% of consumers reuse passwords among multiple websites.

Generally Speaking...
44% of consumers change their passwords only once a year.

Even Worse...
Most organizations are working across multiple applications, each requiring its own password.

- Has caused considerable frustration as users have dozens of passwords to manage.

- Has weakened security as passwords are reused across sites.

- Does nothing to discourage password sharing.

ACS Enterprise-wide IAM Initiative

- Launched an initiative in late 2014 to streamline the customer authentication experience and provide seamless customer access across product lines.

  - Modernizing underlying identity management technology.

  - Streamlining user experience for customer login and profile management.

Gartner®

Consumer Identity and Access Management Is a Digital Relationship Imperative

30 December 2015   G00293444

Analyst(s): *Mary Ruddy | Lori Robinson*

Summary

Digital business is expanding the need for customer-facing identity and access management. CIAM capabilities — including user registration, social login and user profile management — can enable you to provide a secure, unified and business-enhancing customer experience across multiple channels.
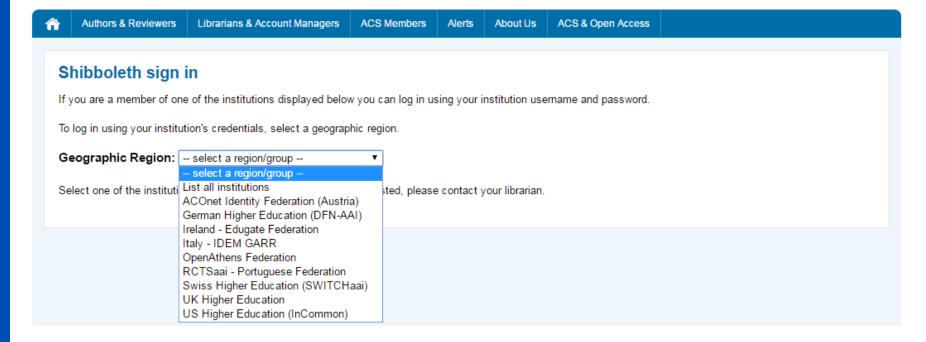
ACS Shibboleth Support

- ACS journals provide limited support for Shibboleth.

Shibboleth sign in

If you are a member of one of the institutions displayed below you can log in using your institution username and password.

To log in using your institution's credentials, select a geographic region.

Geographic Region: -- select a region/group --

-- select a region/group --
List all institutions
ACOnet Identity Federation (Austria)
German Higher Education (DFN-AAI)
Ireland - Edugate Federation
Italy - IDEM GARR
OpenAthens Federation
RCTSaai - Portuguese Federation
Swiss Higher Education (SWITCHaai)
UK Higher Education
US Higher Education (InCommon)

Select one of the instituti... sted, please contact your librarian.

RA21 Initiative

STM — The global voice of scholarly publishing

RA21: Resource Access in the 21st Century

What is RA21?

Resource Access for the 21st Century (RA21) is an STM initiative aimed at optimizing protocols across key stakeholder groups, with a goal of facilitating a seamless user experience for consumers of scientific communication. In addition, this comprehensive initiative is working to solve long standing, complex, and broadly distributed challenges in the areas of network security and user privacy. Community conversations and consensus building to engage all stakeholders is currently underway in order to explore potential alternatives to IP-authentication, and to build momentum toward testing alternatives among researcher, customer, vendor, and publisher partners.

- ACS was a founding partner of the STM RA21 initiative and fully embraces its principle goals:

  - Seamless user experience for researchers across varied systems.

  - Effective solution regardless of researcher's starting point, location, or device.

  - Consistent with emerging privacy regulations; avoid creation of yet another ID.

  - Supporting mechanisms for detecting fraud.

RA21 Initiative

- Core components of new resource access framework:

  - Federated user authentication.

  - Improved WAYF discovery with a consistent user experience across participating publisher sites.

  - Standard taxonomy for attribute exchange.

    - Faculty/Staff/Student roles. Emeritus/retired vs. active faculty.

    - Department codes to facilitate more granular usage reporting.

    - Contract ID for subscribed services.

  - Mechanism for sharing potentially compromised user accounts.

Compromised Credentials

- A significant black market exists for the sale of compromised university credentials.

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Compromised Credentials

- Federated trust frameworks offer great promise for ease of access, but also some inherent risk.

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DATE 14.12.2015
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TITLE / REFERENCE: SIRTFI

A Security Incident Response Trust Framework for Federated Identity (Sirtfi)

Authors: T. Barton, J. Basney, D. Groep, N. Harris, L. Johansson, D. Kelsey, S. Koranda, R. Wartel, A. West

Editor: H. Short

"Since one user credential may have access to SPs at multiple organisations, it presents a way to leverage a compromise at one organisation into an attack on others. The global scale of the overall federated access management system also poses a new challenge to ability to respond to security incidents."

Source: https://refeds.org/wp-content/uploads/2016/01/Sirtfi-1.0.pdf

2017 Timeline

STM The global voice of scholarly publishing

RA21: Resource Access in the 21st Century

- January-February: Call for pilot participation and survey on identity management capabilities.

- March-September: Conduct pilots.

- October-December: Access results, draft recommended best practices.

For more information

STM — The global voice of scholarly publishing

RA21: Resource Access in the 21st Century

http://www.stm-assoc.org/standards-technology/ra21-resource-access-21st-century/

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