



An Introduction to Federated Access Management and the UK federation

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Overview

- What is Authentication & Authorisation?
- What is federated access management?
- What is Shibboleth?
- What is it used for?
- How it works
- Benefits
- UK Access Management Federation
- Federations worldwide
- What's next..?



“AA”

Authentication

- Is a user who they say they are?
 - Identity

Authorisation

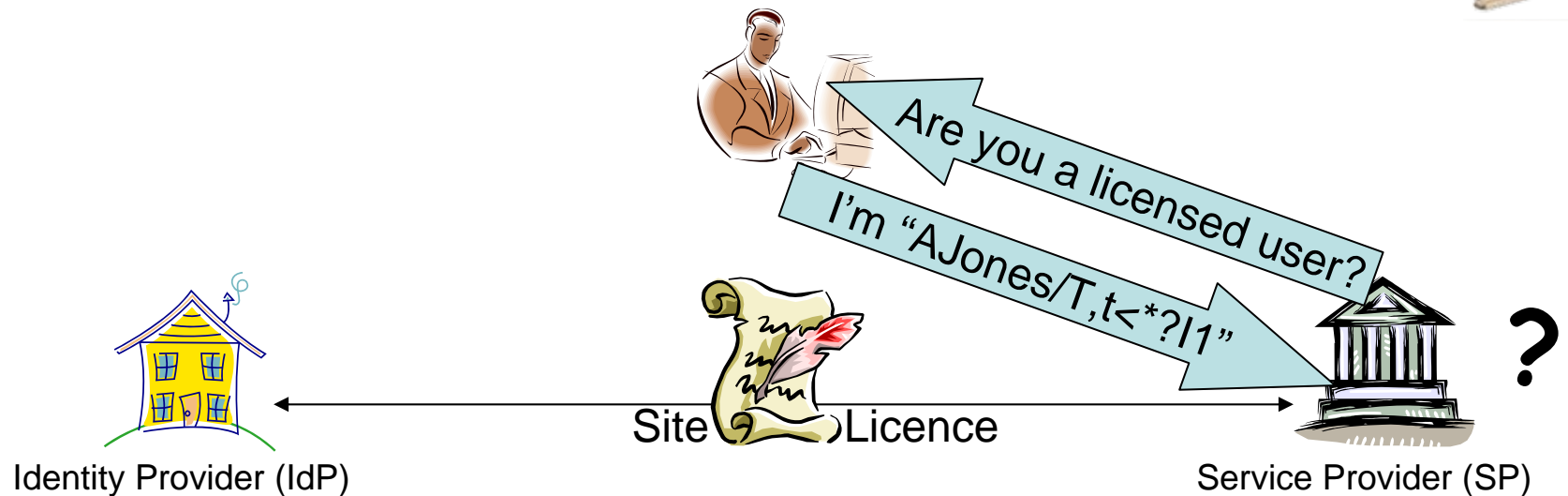
- What is the user allowed to access?
 - Rights

What is federated access management?

- Common set of rules
 - UK federation Rules of Membership
- Devolved authentication
 - e.g. School, LA, RBC, College, University



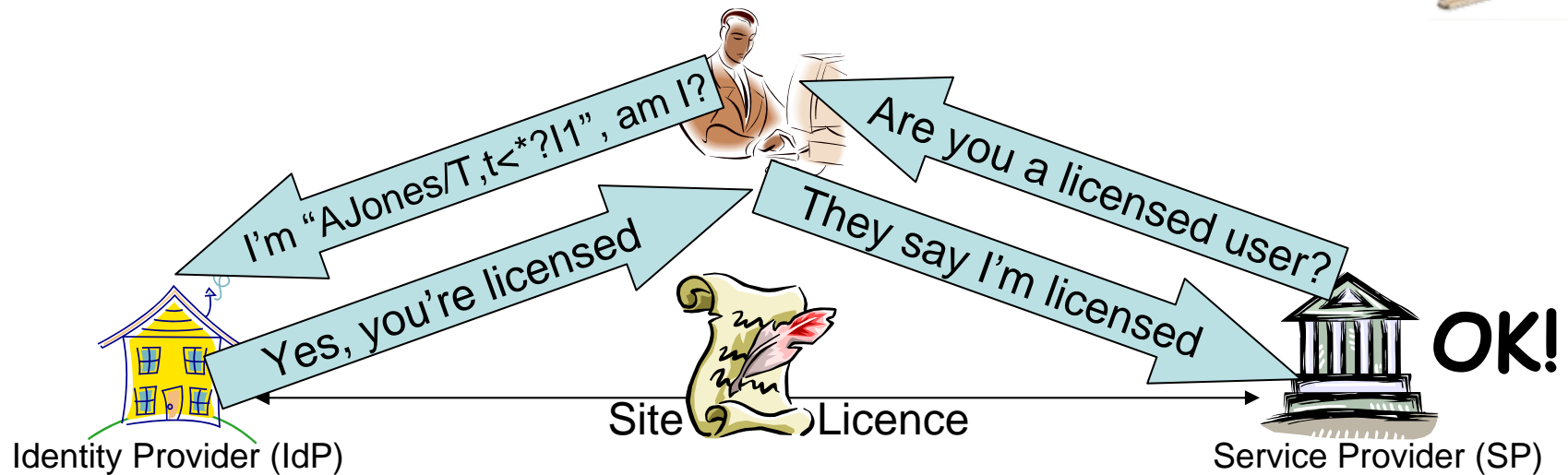
Legacy access management



- User's identity and personal data are known to all
- SP knows more than it wants and less than it needs
- Both IdP and SP need to maintain a full user database



Federated access management



- User's identity and personal data are protected
- SP knows exactly what it needs
- SP not required to maintain a database of every user



What is Shibboleth?

- An initiative to develop an open source, standards-based solution to meet the needs for organisations to exchange information about their users in a secure, privacy-preserving manner
- Developed to meet access management needs of education

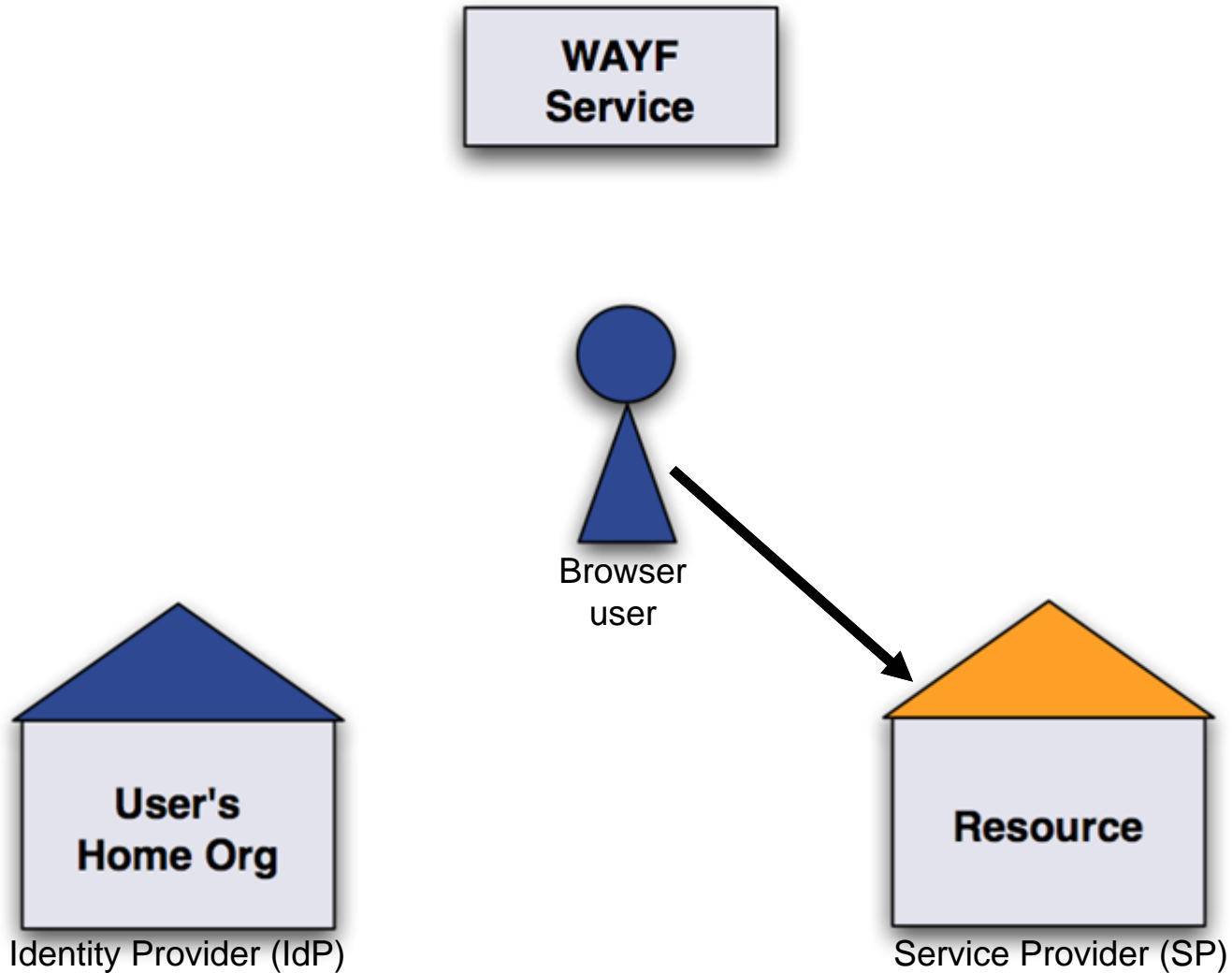


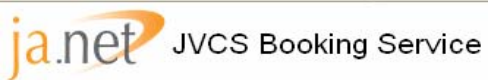
What is it used for?

- Allows a browser user to access protected online resources based on information asserted by their home organisation
- Allows providers of online resources to control access to their services



How it works





JVCS Booking Service.

The JVCS Booking Service enables registered users to create videoconference booking requests and to view the details of videoconferencing facilities at any of the JANET registered organisations.

By accessing this service you confirm that you have read and accepted the [JANET\(UK\) privacy policy](#) and will not share personal data of registered users of this service with any third party. You also confirm that you will not enter personal data of any kind in a title or additional information field of any videoconference booking.

In order to comply with the [Data Protection Act](#) it is not possible to browse for any details of booked videoconferences without first registering to use the service. To [register to use this service](#) you must be a member of staff of a JANET primary connected organisation. Note that registration is subject to approval and may take several days.

Registered users login here - [Register to use this service](#)

Email Address:

Password:

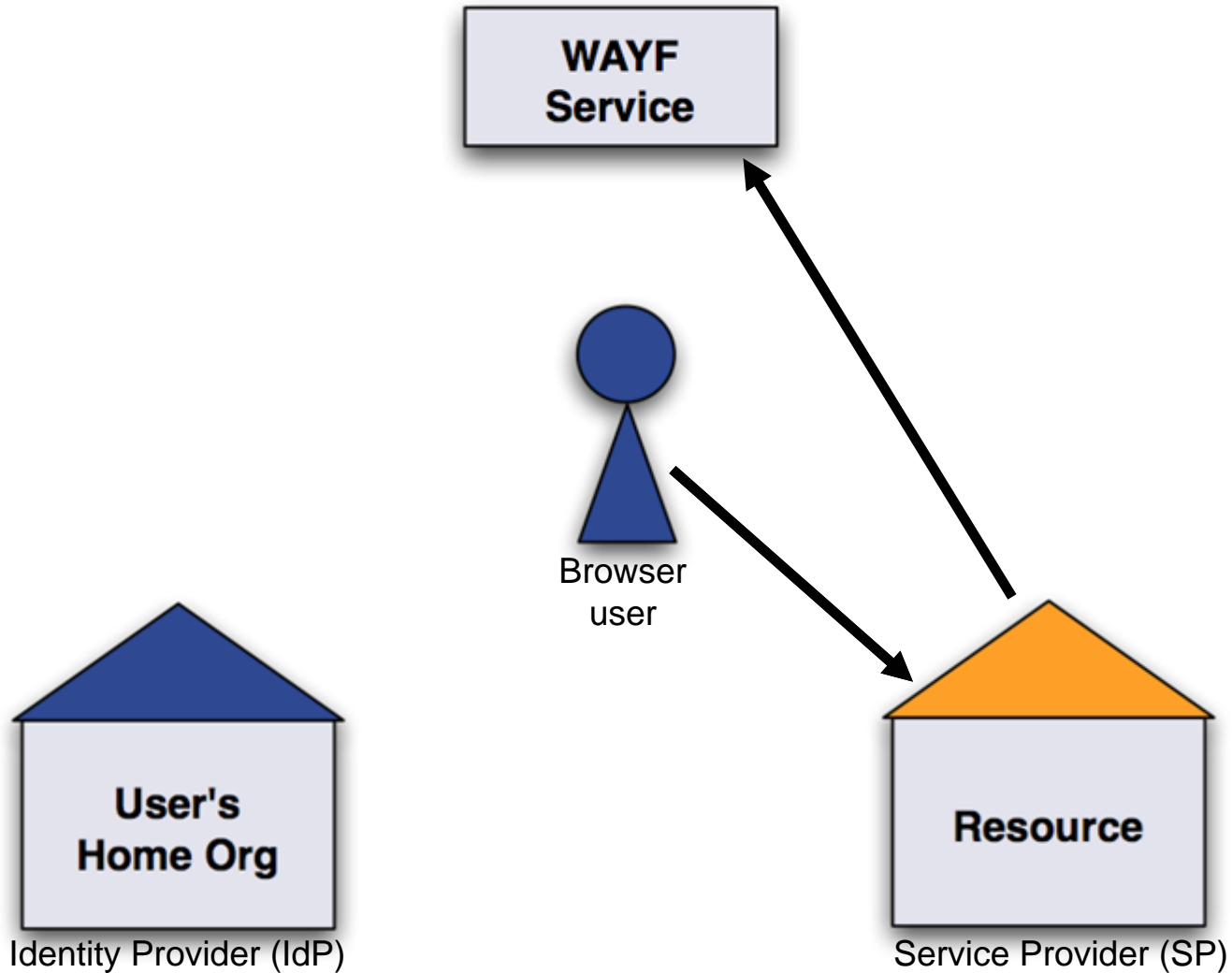
[Forgotten password?](#)

Alternatively, [login](#) or [register](#) using Shibboleth. [Help on Shibboleth.](#)

The **JVCS Management Centre** is open Mon-Fri 08:00-21:00 & Sat 08:00-17:00 and can be contacted on +44 (0)131 650 4933 or by e-mail to vidconf@jvcs.ja.net.



How it works





Select your home organisation

Selection options

The service you are trying to reach requires that you authenticate with your home organisation. Please select an organisation using one of the methods below.

Recent selections

- Cardiff University
- Imperial College London
- University of Edinburgh
- UKERNA Strategic Technologies

Clear

Choose from list

- AHDS, King's College
- AHDS, King's College
- AHDS, King's College (Old)
- Athens Gateway Beta
- Atomwide USO
- Birmingham Grid for Learning
- Cardiff University
- City College Plymouth
- Durham University
- Eduserv Athens
- FEAR
- i2secure
- Imperial College London
- JISC project: Angel
- JISC project: SDSS
- JISC project: SDSS (TypeKey Bridge)
- Kidderminster College
- London School of Economics and Political Science
- LSC Members Identity Service (Pilot)
- Metaleth
- MIMAS

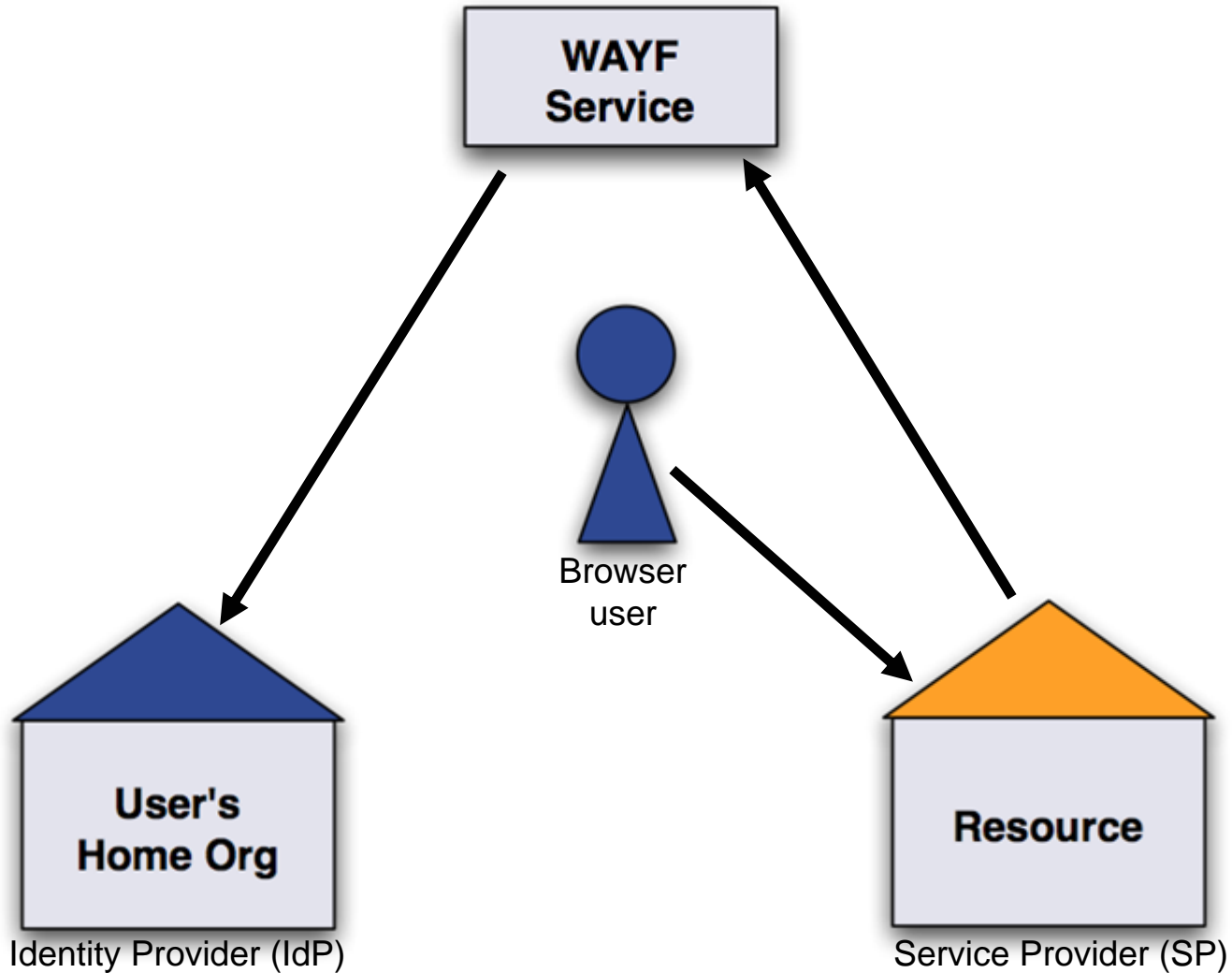
Select


Search

n web site.



How it works



 Search: go


News & Events | Contact Us | A-Z Index




Cardiff University Login

You have been directed here because the resource that you are attempting to view requires proof that you are a member of Cardiff University.

Enter your Cardiff University login details (**NOT your Athens account details**) to proceed:

Username: 

Password: 

You will only need to enter these details once per Web browser session. If you close your Web browser, you will be prompted to login again next time you try to access protected resources.

[Problems logging in?](#)

Login - Mozilla Firefox [minimize] [maximize] [close]

File Edit View History Bookmarks Tools Help

← → ↻ × 🏠 📄 <https://www.jvcs.ja.net/cgi-bin/vcng/secure/login.cgi> 📄 Google 🔍

📄 BBC NEWS | News Front Page 📄 Login

Shibboleth Authentication Request Processed

You are automatically being redirected to the requested site. If the browser appears to be hung up after 15-20 seconds, try reloading the page before contacting the technical support staff in charge of the desired resource or service you are trying to access.

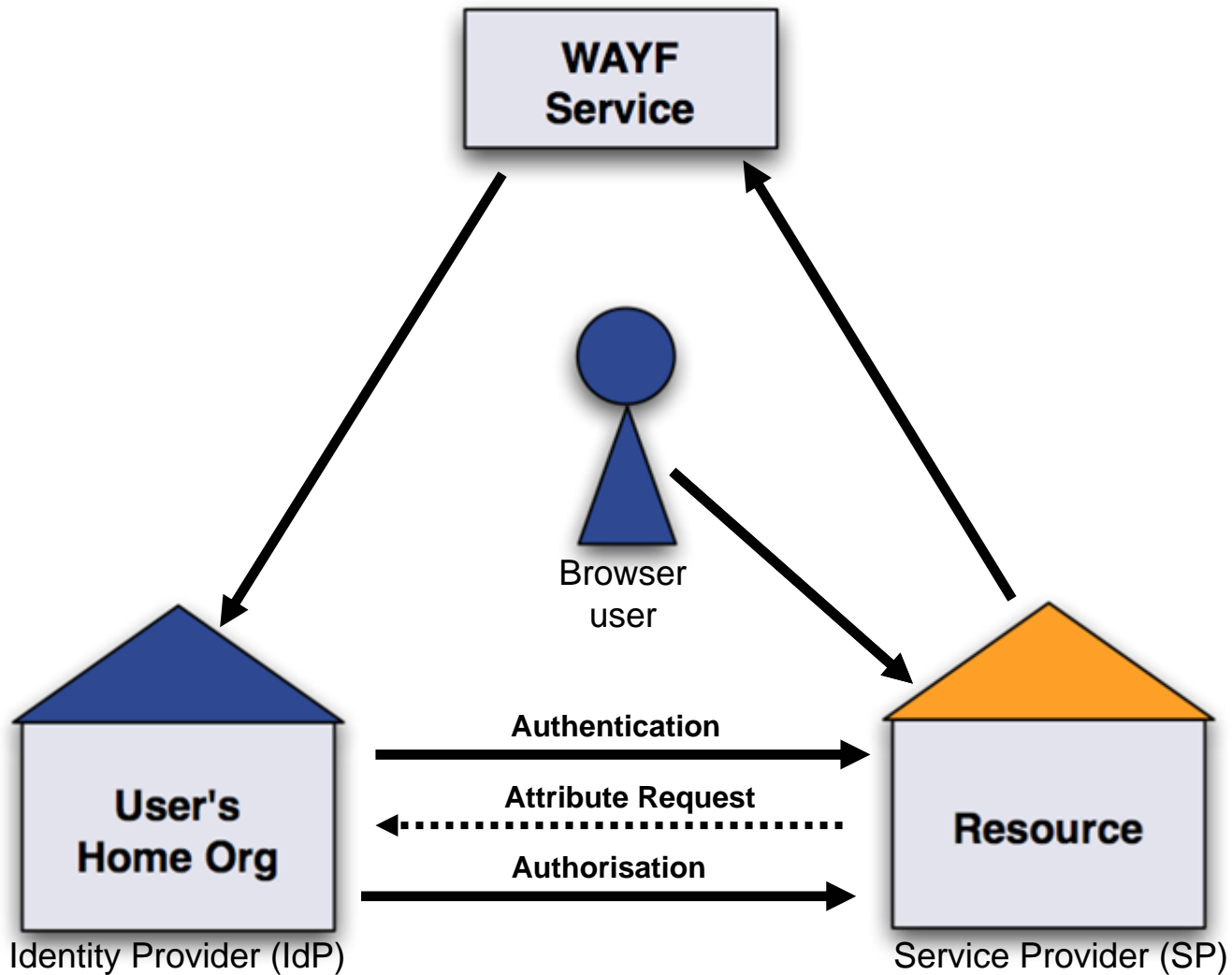
Redirecting to requested site...

Read www.jvcs.ja.net www.jvcs.ja.net

start [taskbar icons] Login - Mozilla Fir... Inbox - Microsoft ... Windows Live Me... Microsoft PowerP... [system tray icons] 11:58



How it works



JVCS Booking Service home page.

Please read the following service notes:

- ♦ [ISDN dial-out](#) changes (05/03/07)
- ♦ [JVCS-Check](#) launched (21/11/06)
- ♦ [Venue availability](#) display in 15 minute intervals (26/09/06)

You can select a task from the menu at the top of the page or from the the list below. Alternatively, go to [JVCS-OnDemand](#).

Book videoconference	arrange a videoconference
Book QA test	arrange a Quality Assurance test for a venue
JVCS-Check	start a JVCS-Check videoconference
Book venue only	reserve a venue for a non-videoconferencing purpose
List bookings	search for and list your booked videoconferences
Venue availability	show venue availability for a selected period of time
Your details	edit your personal details and preferences
Favourites list	add/edit frequently used venues and attendees
Logout	end this session on the booking service and return to the login page
Additional tasks:	
List organisations	display registered organisations
List venues	display registered venues
List users	display registered users
List groups	display organisations & venues by group
List regions	display organisations by region
List sectors	display venues by sector
Register content provider	request registration of a new content provider
List ISDN invoicing account owners	display ISDN invoicing account owners
ISDN call charges	display ISDN call charges by country
Submit comment	send a comment about the service to the development team



Attributes

- Enables fine grained AA, e.g.
 - Member of...
 - Medical student
- Not individual username and password
- SP only asks for what it needs



Benefits for Users

- Much less need to disclose your identity
- Personal data kept between you and your home organisation
- Access to online resources from anywhere
- (At least) one less password to remember

Benefits for Organisations

- Uses existing access management systems
- Can be used to protect internal resources
- Fewer support problems
- Easier to comply with regulatory requirements
 - *Data Protection Act 1998*



Benefits for Service Providers

- No need to maintain your own user database
 - Authentication is done for you by home organisation
 - Can authorise per institution, role, and/or entitlement
- Reduction in user support
- Reduced data protection compliance burden
 - Less storage/processing of personal data

The UK Access Management Federation for Education and Research

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What is the UK federation?

- A set of Rules that binds members:
 - Make accurate statements to other members
 - Keep federation systems and data secure
 - Use personal data correctly (DPA, 1998)
 - Resolve problems within the Federation
 - Not by legal action
 - Assist Federation Operator and other members

The UK federation

- Launched November 2006
- Schools, FE, HE and Research
- Organisations and institutions providing services to these sectors

Organisational Structure

- Joint funded by Becta & JISC
- Operational management by JANET(UK)
- Policy Board
 - Stakeholder representatives
- Technical Advisory Group
 - Experts from all sectors



UK federation infrastructure

- Hosted by JANET(UK)
- Discovery Service
 - Resilient WAYF
- Hosting of metadata
 - Describes the UK federation
- Monitoring of SPs and IdPs
- Test environment
- Federation web site
 - www.ukfederation.org.uk



Fully supported JANET service

- Support team at JANET(UK)
- Expert support from the JANET community
- Guidance and advice to IdPs & SPs
- Configuration guides
- Training courses
- Workshops to help organisations join the UK federation



What are the benefits?

- Provides consistency across the education sectors
- Improves the user experience
- Facilitates sharing of content and collaboration within and across sectors
- Economies of scale for both sectors
- Centrally-funded: no annual fees!
- Based on an international standard (SAML)



SAML based education federations

- Australia
- Denmark
- Finland
- France
- Norway
- Switzerland
- Sweden
- USA



What's next...?

- UK federation development roadmap
<http://www.ukfederation.org.uk/content/Documents/DevelopmentRoadMap>
 - Increase functionality
 - Enhance usability



Questions?

More info:

www.ukfederation.org.uk

E-mail lists:

Ukfederation-announce@jiscmail.ac.uk

Ukfederation-discuss@jiscmail.ac.uk