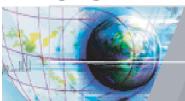




Athens Shibboleth Interoperability

Lyn Norris, Athens Manager



- Overview of Athens
- Overview of Shibboleth
- Interoperability
- Athens in action





Athens is:

- An Access Management System for web resources
 - Managing access for approved individuals to approved content
 - on behalf of content owner
 - in accordance with licence conditions
- Primarily commercial academic research material 'sold' under site licence conditions





Academic Research Material

- Many information sources
 - metadata, full text, references
- Many content owners
 - primary publishers
 - secondary database owners
- Many ways to subscribe or register
 - publisher, subs agent, consortia deals
- linking systems
 - Portals, VLEs, MetaLib, Encompass





IP Authentication

- Attractive
 - seamless access for users
 - ease of management for organisation & resource-provider
 - one-off registration for whole site
 - infrequent changes
 - user doesn't have to remember anything





IP Authentication

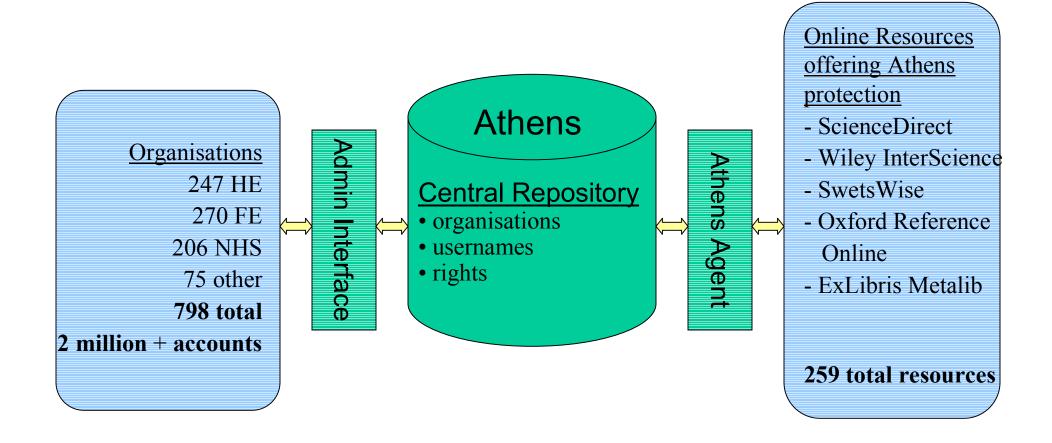
- Difficulties
 - relatively easy to fake
 - complicated access for people working off site
 - no personalisation
 - saved searches
 - favourite journals
 - accountability





Athens

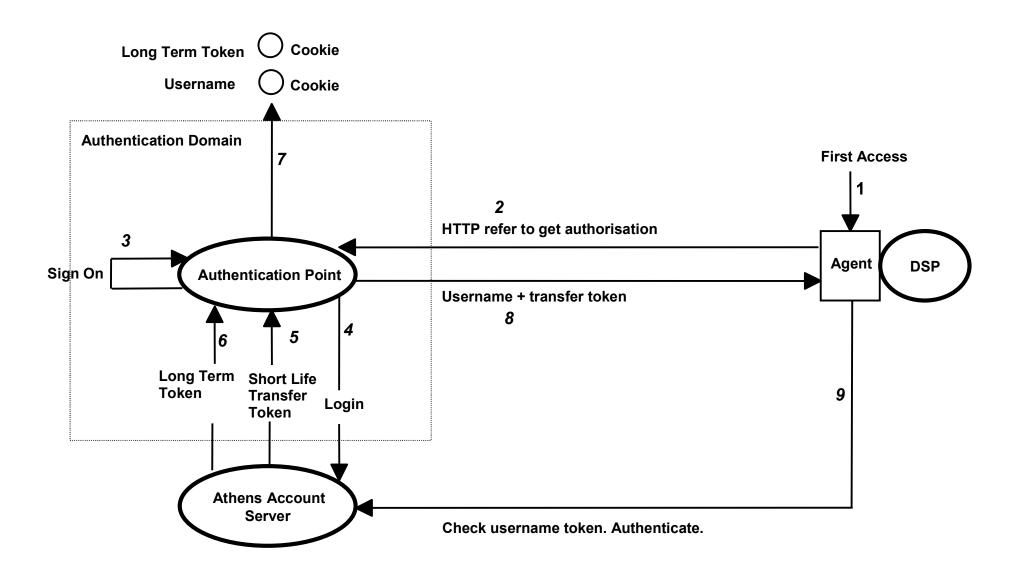
- for the user
 - provides single credential access to many online resources
- for the subscribing organisation
 - provides a set of tools for managing potentially large number of users
- for the service provider
 - makes service more attractive to users
 - removes task of managing IP addresses or usernames and passwords for customers





Athens

- Single sign-on across multiple services
- Cookie session maintained inside the Athens Authentication Domain (auth.athensams.net)
- Authentication transferred across domains
- Secure
 - Password never leaves the Authentication Domain
 - Tokens are time-limited & cryptographically signed
 - AAP operates over SSL
- Authorisation negotiated between a service provider and Athens
 - Agent technology, C or Java APIs or Apache/IIS modules
 - SOAP web-services interface



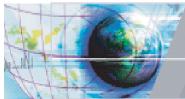




Athens Client Base I

- Communities
 - UK Higher & Further Education
 - NHS National Health Service (NHS)
 - British Council
- Organisations
 - 250 Universities
 - 250 Further Education Colleges
 - 200 NHS organisations
 - 100 assorted organisations world-wide

Athens Access Management System



Full list of services authenticated by Athens

AMADEUS on the Internet AMICO library APU Library Proxy BANKSCOPE on the Internet **BIDS Education Service** BIDS IBSS Service BIDS Silver Platter INSPEC service BIDS SilverPlatter PsycINFO Service BMJ Journals BioMed Central Blackwell-Synergy.com British Standards Online

Butterworths Accountancy Direct Butterworths All England Direct Butterworths Banking Law Direct

Butterworths Businesscompliancedirect.co

Butterworths CaseSearch

Butterworths Civil Procedure Online **Butterworths Commercial Property Law Butterworths Corporate Finance**

Butterworths Corporate Law Direct

Butterworths Crime Online Butterworths EBL Direct Essentials

Butterworths EBL Direct Premium

Butterworths EU Direct

Butterworths Employment Online Butterworths Family and Child Direct Butterworths Financial Regulations Servi Butterworths Forms and Precedents Direct

Butterworths HSE Direct

Butterworths Halsbury's Laws of ... Butterworths Human Rights Direct Butterworths Insolvency Law Direct

Butterworths Intellectual Property ... Butterworths International Tax

Butterworths Law Direct Butterworths Law Reports Direct

Butterworths Legal Updater

Butterworths Legislation Direct Butterworths Licensing Direct

Butterworths Local Government Direct

Butterworths PI Online Butterworths PensionsPro

Butterworths Property Tax Direct Butterworths Scotland Direct

Butterworths Sergeant Sims Stamp Duty

Butterworths Stair Memorial

Butterworths Stone's Justices Manual Butterworths Tax Direct

Butterworths Tax Planning Service

Butterworths Trusts and Estates Direct Butterworths US Banking Editions Online

CSA Aqualine

CSA Artbibliographies Modern CSA Internet Database Service CSA Linguistics & Language Behaviour

CSA e-psyche

Cartalinx

Cavendish Publishing eLibrary Census Dissemination Unit

Census Geography Data Unit (UKBORDERS) Extenza e-Publishing Service Census Interaction Data Service

Census Learning Resources Census Microdata Unit at the CCSR Census Registration Service

Chadwyck-Healey KnowEurope Chadwyck-Healey KnowUK Database

Chadwyck-Healey LION for colleges Chadwyck-Healey Literature Online Chadwyck-Healey PCI Full Text Database

City University Virtual Library

Cochrane Library

CrossFire Service (AUTONOM) CrossFire Service (PLUSABGM)

CrossFire self-teach modules (MIMAS-XFT)

Dialog DataStar Dialog@Site EBSCO EJS EBSCO databases **EDINA AGDEX EDINA Art Abstracts**

EDINA Art Index Retrospective

EDINA BIOSIS

EDINA BIOSIS Previews 1969 - 1984

EDINA CAB Abstracts EDINA Compendex EDINA Digimap EDINA EconLit **EDINA INSPEC**

EDINA Index to The Times, 1790 - 1980

EDINA MLA **FDINA PAIS**

EDINA Palmer's Index EDINA UPDATE

EEBO

EIU City Data on the Internet EIU Country Data on the Internet

EIU Country Indicators on the Internet

ESDU Data

ESRI NTF Converters Education Media OnLine

Education Media OnLine medical-restrict Electronic Surgeons in Training Educatio

Emerald Computer Abstracts

Emerald Fulltext

Emerald Int. Civ. Eng. Abstracts **Emerald Management Reviews** FAME on the Internet

Gale Group InfoTrac HFFCF Review IST ICR Science Edition ISI JCR Social Sciences Edition

ISI Web of Science Service for UK Educn.

Idrisi

Ingenta Select

IngentaJournals Full Text Service

Isle of Man GIS data JASPER

JUSTIS CELEX

JUSTIS Celex and OJC JUSTIS Daily Cases JUSTIS ECJ Proceedings

JUSTIS European References JUSTIS Family Law

JUSTIS Hermes JUSTIS Human Rights JUSTIS Industrial Cases JUSTIS Law Reports (eLR) JUSTIS Lloyd's Law Reports JUSTIS Mental Health Law Reports

JUSTIS Official Journal C JUSTIS Prison Law Reports JUSTIS UK Statutes and SIs

JUSTIS Weekly Law JustCite

Kevnote LexisNexis MD Consult

MIMAS ISI BIOSIS Previews MIMAS ISI Chemistry Server MIMAS ISI Current Contents Connect MIMAS ISI Derwent Innovations Index

MIMAS Infoterra MIMAS Landmap

MIMAS Landmap Mediterranean

MIMAS TimeWeb OECD Main Economic Indicat

MIRA Virtual Automotive Info Centre Martindale & Stockleys Drug Interactions

Mintel Reports

Mulberry

NeLH Evidence-Based on Call NeLH Journal of Medical Screening

NetLibrary

NewsBank InfoWeb OCLC FirstSearch Service OSIRIS on the Internet

Ovid Online

Oxford English Dictionary Online Oxford Reference Online

Papyrus software for DOS Papyrus software for the Mac

Parlianet

Primal Pictures Basic Anatomy (NHS)

Primal Pictures anatomy.tv

ProQuest

ProQuest Reference Asia RCS Discussion Fora

RCS Library Electronic Journals

RCS Members Area

RefWorks SCRAN Web Site ScienceDirect

SilverPlatter ARC Service

SilverPlatter Arc2 SwetsWise

Synsoft HYDRA and HYDRA ONLINE

Technical Indexes Info4Education

Technical Indexes Info4HealthEstates

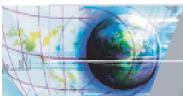
The Times Law Reports UK JSTOR Mirror Service Westlaw UK

Wiley InterScience XpertHR

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Athens Devolved Authentication

- Authentication is devolved to an institutional authentication system
- Authentication is asserted to Athens by means of cryptographic trust
- Users are assigned a virtual account
 - Permission set (role)
 - Unique id
- Authorisation is still performed within Athens, but is role-based



Authentication System

- It could be
 - LDAP Directory
 - Kerberos
 - Library OPAC, or ILS
 - Portal authentication system
 - VLE
 - X.509 certificates





What Athens needs to know

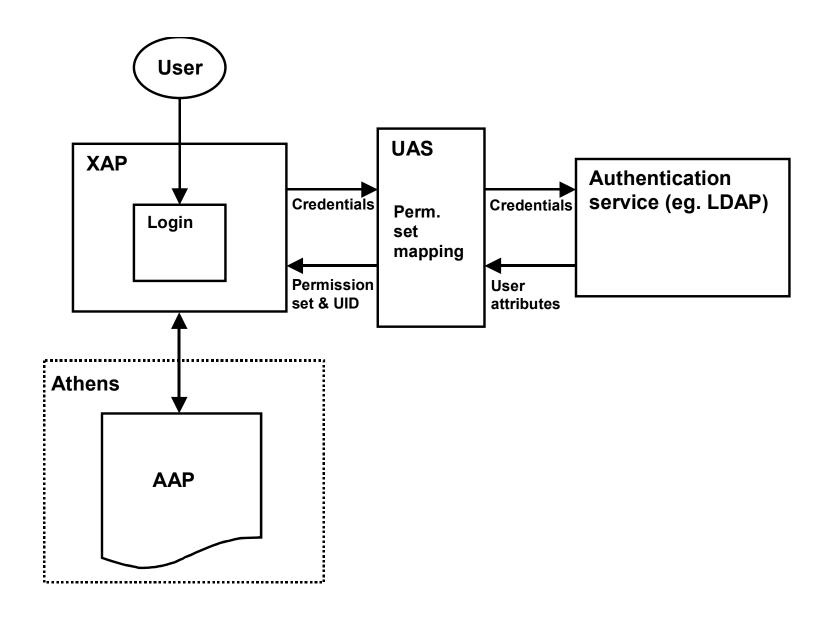
- Permission set
 - Created and held within Athens
 - Must be at least one per organisation
 - Defines role for user (eg. Staff, student)
- Unique identifier
 - Must be numeric (32 bits)
 - Must be persistently bound to an individual
 - Eg. Student/staff number





What you need to do

- Run an XAP (login point)
 - Perl and ActiveX/COM versions provided by Athens
- Develop a UAS (User Authority Service)
 - UAS provides an abstract interface between the XAP and authentication service
 - Authenticates user against local service
 - Assigns user a permission set and unique identifier based on attributes

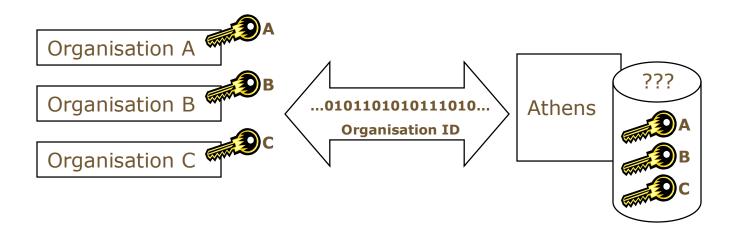


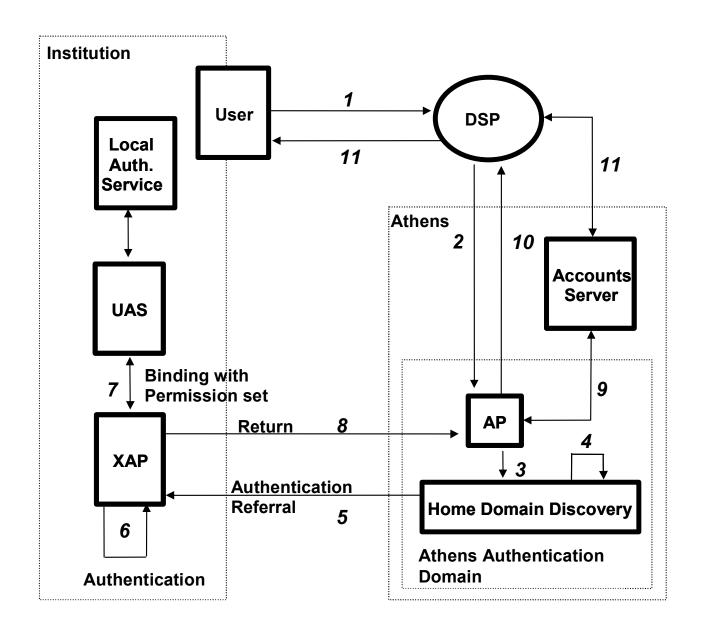




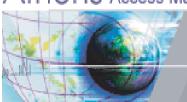
Trust/Encryption

- Athens does not know about user
 - Athens must trust organisation to only assert valid users (licence obligation)
 - Athens must trust that it really is the organisation asserting user (cryptographic trust)
 - Shared symmetric keys enforce trust relationship



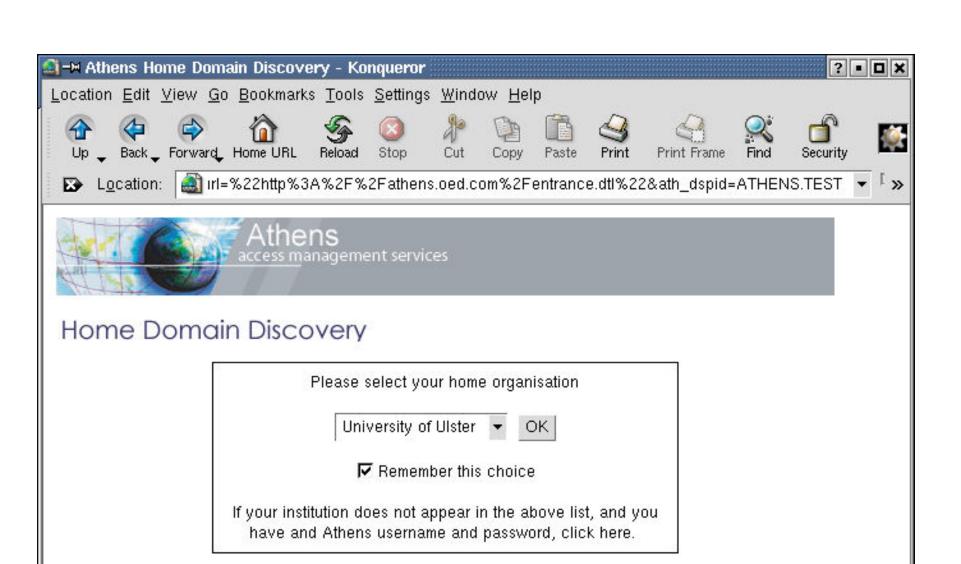






Modes of operation

- HDD (Home Domain Discovery)
 - A user goes direct to a service provider
 - We have to find out their institution
- LAA (Local Authentication Assertion)
 - A user starts locally at their institution
 - VLE, library portal, desktop login etc.
 - AthensDA used to establish Athens session pre-emptively



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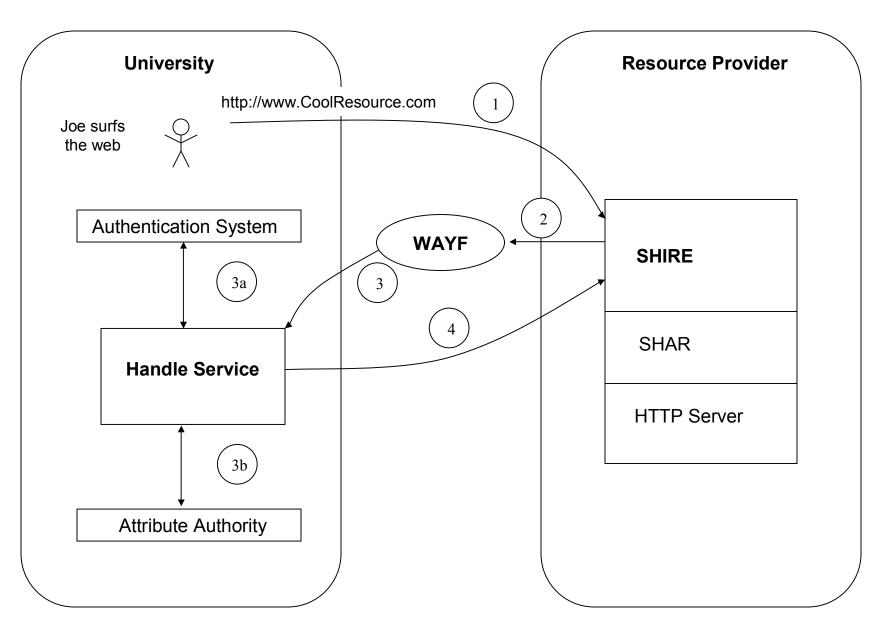
Athens is a Service of EduServ



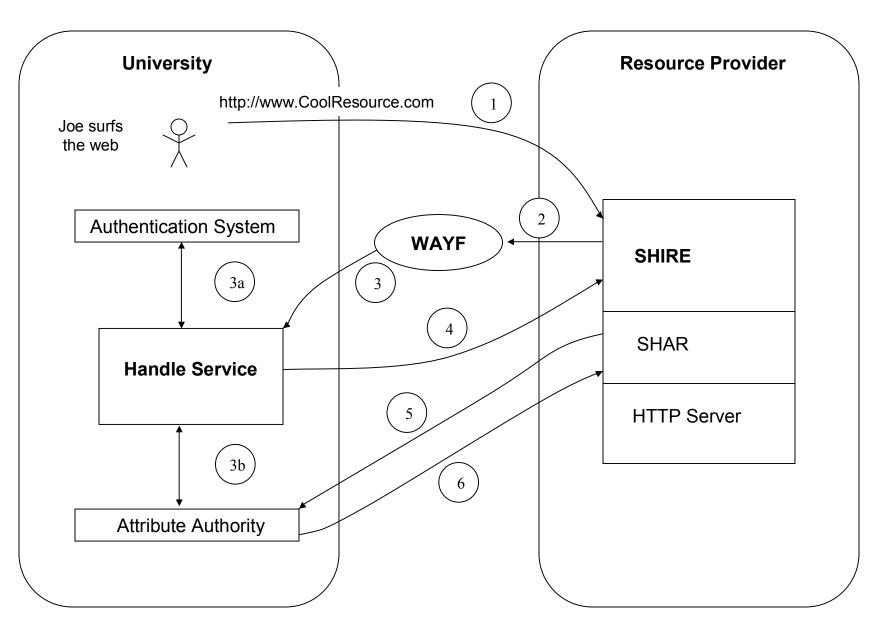


Shibboleth is:

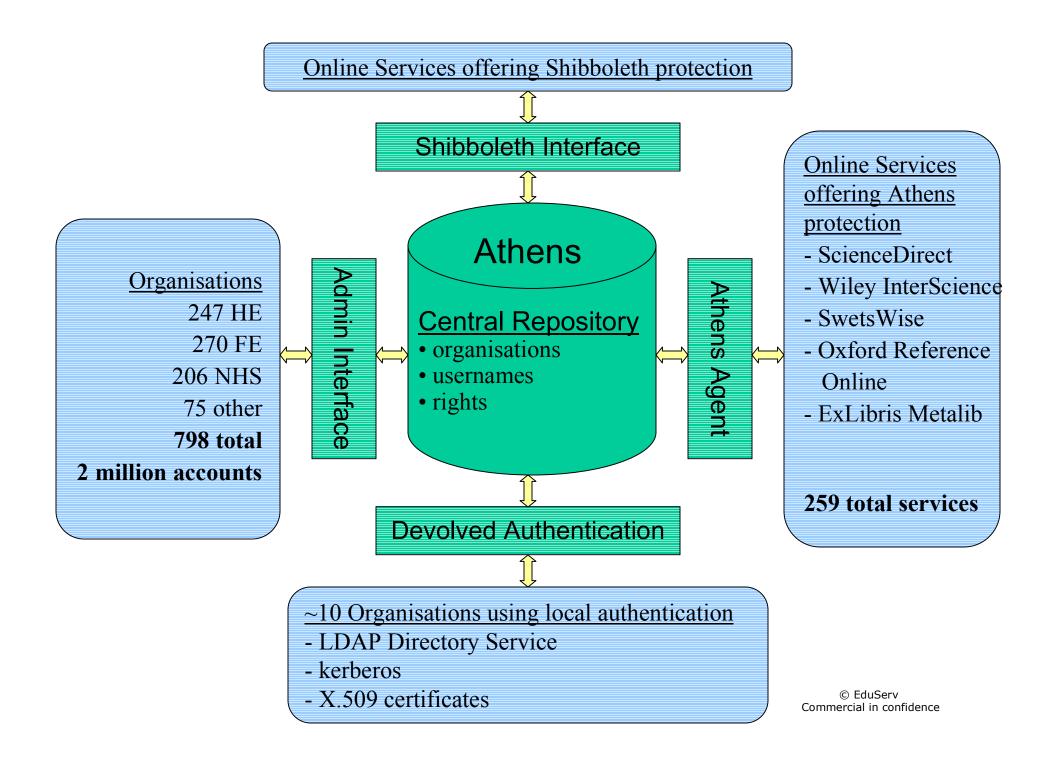
- Emerging web authorisation architecture
- Internet2/MACE project
- Reference implementation software
 - V0.8 released 8th March 2003
 - V1.0 due end of May
- Key concepts
 - Authentication federated to institution
 - Pseudonymity for individuals
 - Attribute Authority at institution
 - Authorisation decision made by resource provider based on user attributes



Shibboleth Handle Acquisition



Shibboleth Attribute Acquisition

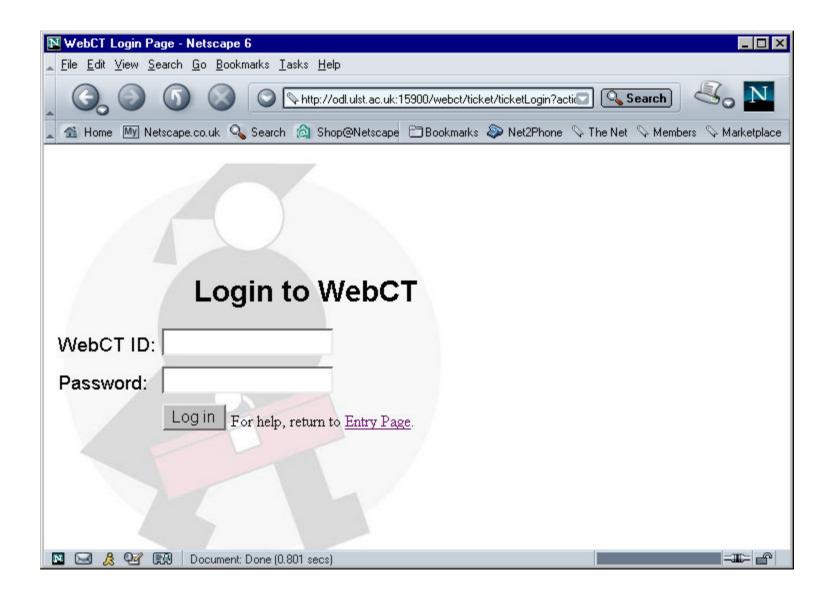


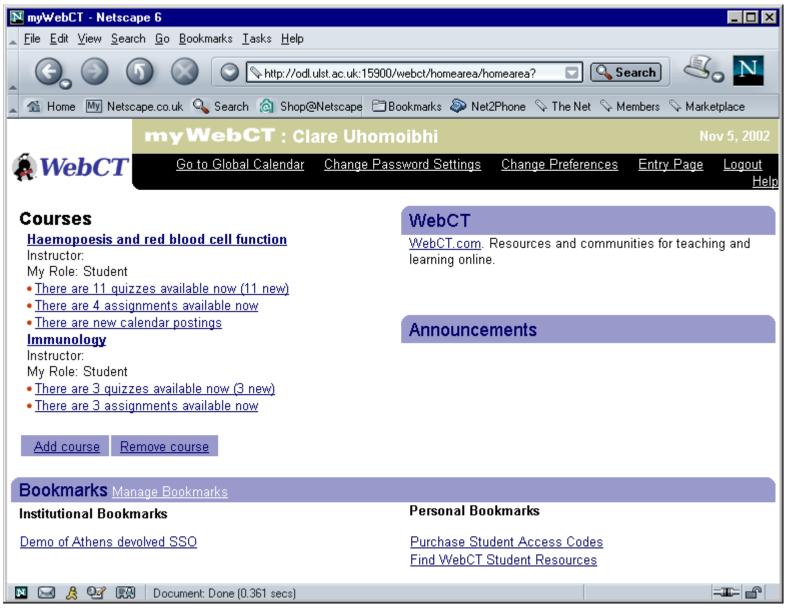


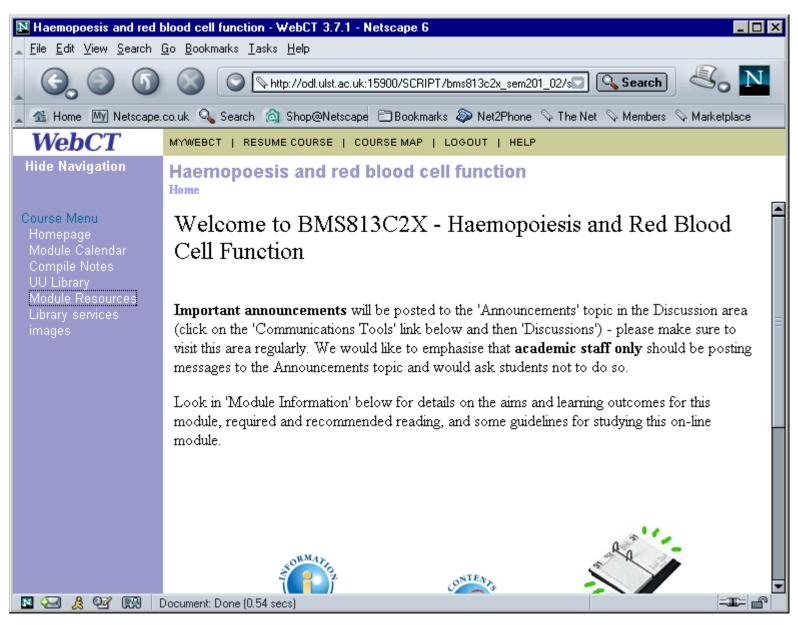


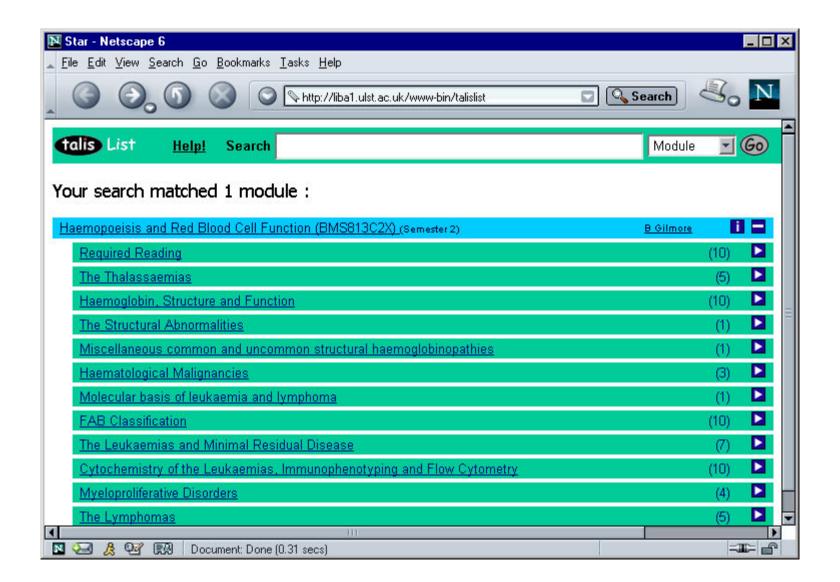
Inter-operability

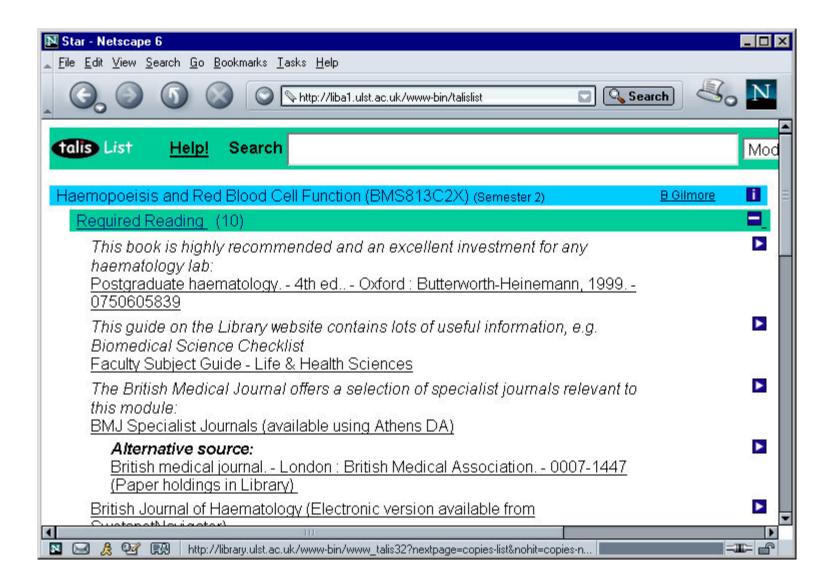
- Allow Shibboleth institutions (origins) access to Athens-protected resources
- Allow Athens institutions access to Shibboleth protected resources (targets)
 - Demonstrated Athens as origin on v0.7
- Allow any trusted authentication system access to Athens protected resources
- Establish peer-to-peer relationships

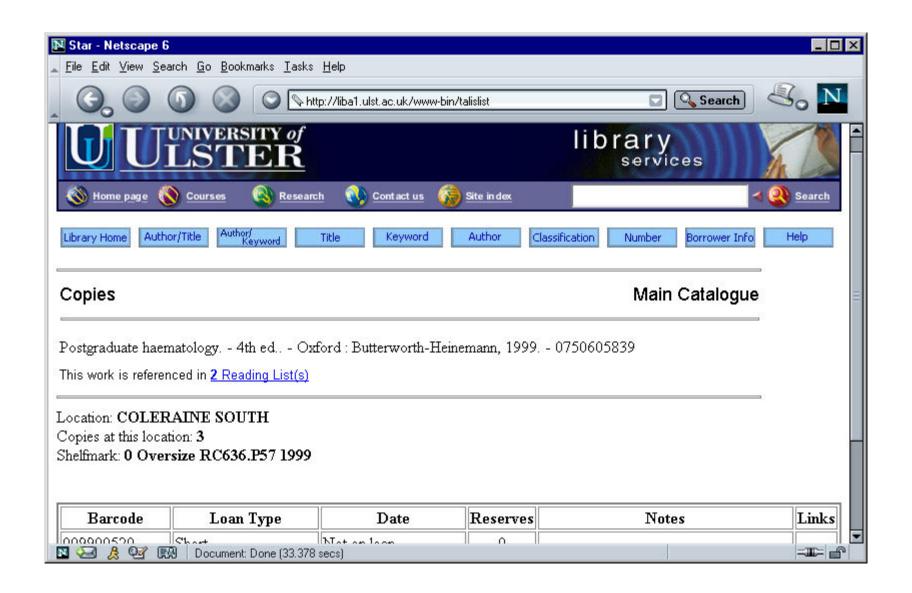


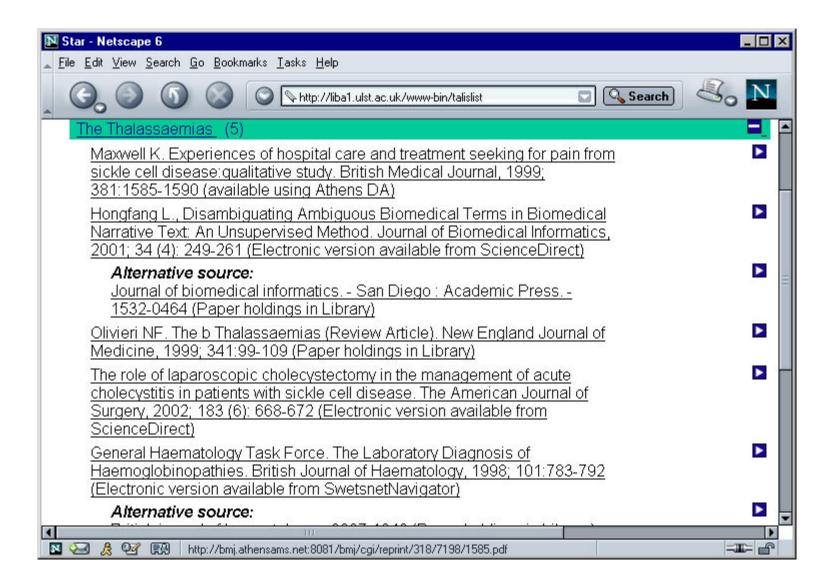












Papers

Experiences of hospital care and treatment seeking for pain from sickle cell disease: qualitative study

Krista Maxwell, Allison Streetly, David Bevan

Abstract

Objective To investigate how sociocultural factors influence management of pain from sickle cell disease by comparing the experiences of those who usually manage their pain at home with those who are more frequently admitted to hospital for management of their pain.

Design Qualitative analysis of semistructured individual interviews and focus group discussions. Participants 57 participants with genotype SS or S/β-thal (44 subjects) or SC (9) (4 were unknown). 40 participants took part in focus groups, six took part in both focus groups and interviews, and nine were interviewed only. Participants were allocated to focus groups according to number of hospital admissions for painful crisis management during the previous year, ethnic origin, and sex.

Results The relation between patients with sickle cell disease and hospital services is one of several major non-clinical dimensions shaping experiences of pain management and behaviour for seeking health care. Experiences of hospital care show a range of interrelated themes, which are common to most participants across variables of sex, ethnicity, and hospital attended: mistrust of patients with sickle cell disease; stigmatisation; excessive control (including both over and undertreatment of pain) and padoct.

about the affected population.4 Ongoing analysis of data of hospital admissions and estimated population figures, however, suggest a similar pattern of service use to that in the United States, with a small percentage of the affected population consuming a disproportionate amount of resources. Most previous research has systematically excluded individuals with infrequent hospital contact⁵ assuming they experience little or no severe pain. Those who manage their pain at home have been similarly neglected by the organisation of health services, which have focused on acute management rather than primary and community care. Published research tends to ignore both the experiences of individuals who manage their pain in the community and the influence of non-clinical factors on treatment seeking behaviour.

Biomedical approaches to pain have traditionally conceptualised experiences of pain as fundamentally individual and purely biological.⁶ Our investigation draws upon the anthropological understanding that sociocultural factors influence the perception, response to, and communication of pain.⁷ Similarly, treatment seeking is a social action influenced by social context and individual meanings and experience, and not simply a straightforward individual response to the experience of physiological symptoms. We aimed to compare the experiences of pain and its management by patients

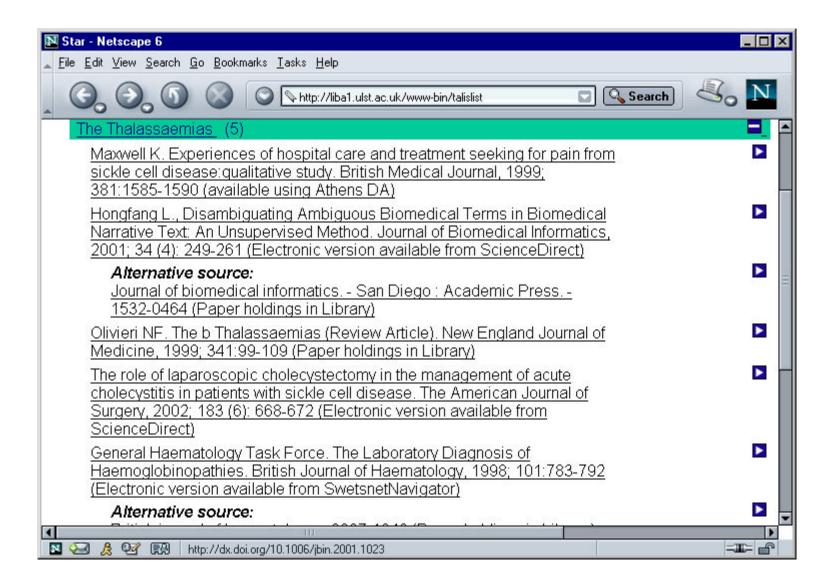
Department of Public Health Sciences, Guy's, King's, and St Thomas's Schools of Medicine, Dentistry, and Biomedical Sciences, King's College London, London SE1 3QD Krista Maxwell, research associate Allison Streetly, senior lecturer

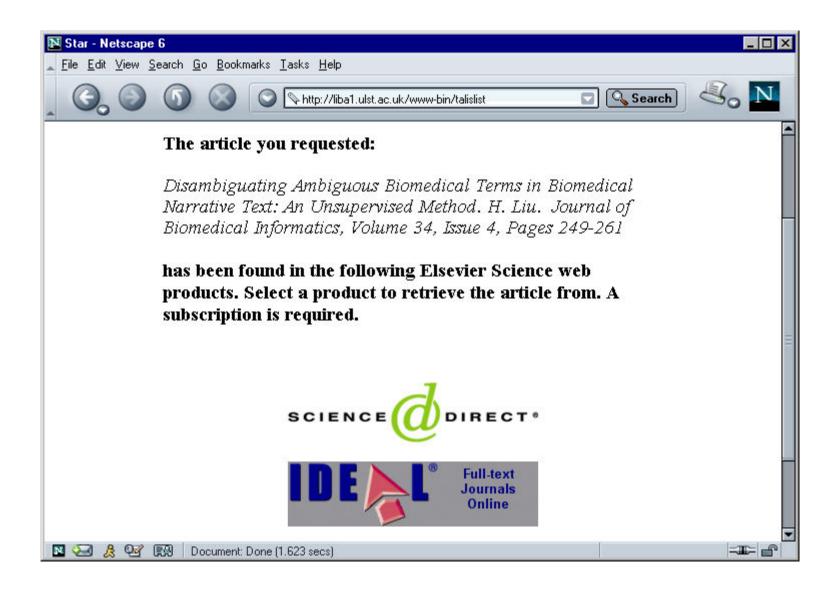
Department of Haematology, St George's Hospital Medical School, London SW17 0QT David Bevan, senior lecturer

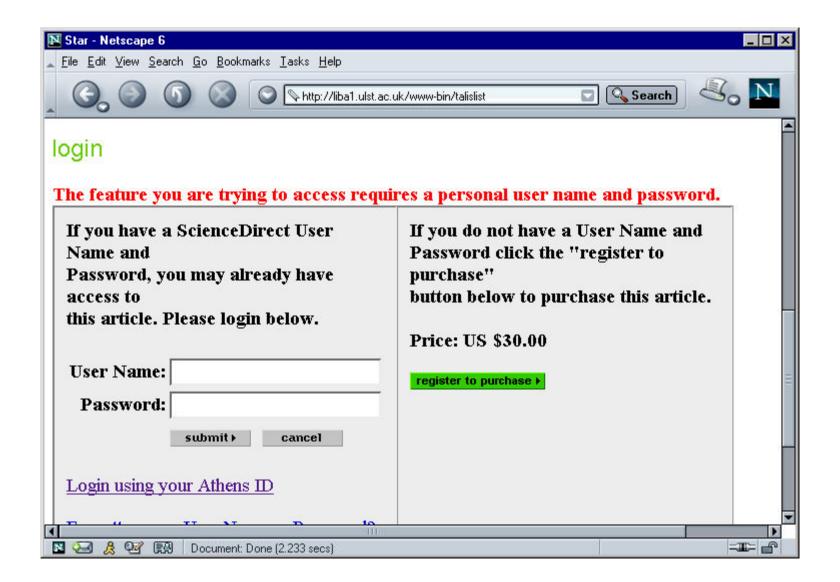
Correspondence to: Dr Streetly

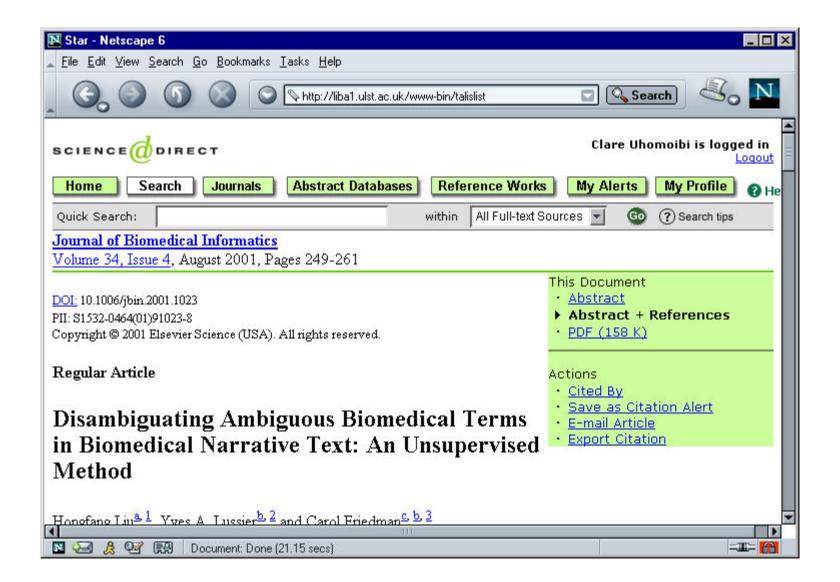
a.streetly@umds. ac.uk

BMJ 1999;318:1585-90













To Summarise

- Athens is a mature and evolving Access Management System
- Single Sign On access to many services
- Significant customer base of library resources
- Opportunities to inter-operate to mutual benefit
 - with Shibboleth
 - With other established authentication systems