

Geo-IP and BoB National

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Cambridge Imaging Systems Ltd

Our principal area of business is the development of Off-air recording systems and Digital Media Asset Management Systems.

We are primarily software developers and system integrators.

Our Clients



bob

box of broadcasts



bob national +



bob enterprise +



bob for schools +

Box of Broadcasts National Resource

BUFVC , **CEMP** and **Cambridge Imaging Systems** partnership to create a national, centralised – on line service for Universities with an ERA+ license.

Creates a huge archive of programmes available for immediate viewing (currently 30,000+)

No IT headaches

Staff and students can help themselves.

Low cost annual subscription fee.

Served over JaNet – fast Universities network

What is BoB?

“i-player for Universities”

Highly configurable off-air recording system

Can store programmes in a large number of file formats

Creates a searchable archive of programmes

Features a buffer of TV channels going back 7 days plus

Web browser based Interface for easy scheduling and retrieval

Add your own content



The screenshot shows a web browser window displaying the 'bob national' website. The page title is 'Record a Programme | Programming Guide'. The date is 'Wednesday, 9th 09th September 2010'. The main content is a grid of program listings. A blue pop-up window is overlaid on the grid, displaying the following text:

BBC News
 06:00 to 06:30 (Tue 01, 07:00 to 08:00)

Twenty-four hours a day, the latest national and international stories as they break. (2)

Record and Record

The background grid shows various programs such as 'The Andrew Marr Show', 'Sunday Morning Live', 'The Politics Show', 'Daily 50', 'Gastronomy', 'Something for the Weekend', 'This is BBC Three', 'This is BBC Four', 'Air Guard', 'Ray Gunny', 'Line Up', 'Line Up Enhanced', 'Sun Tonight', 'BBC Sport', 'C24', 'News', 'The Record', 'Politics', 'Sportsweek', and '7 Day Stories'.

The screenshot shows a web browser window displaying the 'Bob' website. The page is titled 'My Bob' and features a search bar, navigation buttons, and several columns of program listings. The 'My Programmes' column lists various shows like 'London Nights', 'BBC London News', and 'Family Guy'. The 'My Playlist' column shows a 'New Playlist' button and a list of programs. The left sidebar contains sections for 'BBC NEWS', 'T: Finance and the Rest of the World', 'BBC SCIENCE', and 'LATEST DOCUMENTARIES'.

bob
BOX OF BROADCASTS

My Bob

My Bob for [http://www.cambridgeimaging.co.uk/2/preferences](#)

Search for content

Recent programmes

My Bob

BBC NEWS

T: Finance and the Rest of the World

BBC SCIENCE

Family Guy
There's Something About Mrs
The Simpsons
The Star Trek: Voyager Movie
Waves
Down Under: How Low
Top Gear
E: Empire
The 5 Factor

LATEST DOCUMENTARIES

Swampland II
General Words
Strategy 27/28
Lost, Stuck and Two Stunning Nights
09
Prison
Prison
Prison
The Empire Strikes
The Empire Strikes

My Programmes

London Nights	Add to Playlist	2
London Nights	Add to Playlist	2
London Nights	Add to Playlist	2
London Nights	Add to Playlist	2
London Nights	Add to Playlist	2
BBC London News	Add to Playlist	2
Family Guy	Add to Playlist	2
Superheroes: The Truth About...	Add to Playlist	2
The Deal: Steve	Add to Playlist	2
Steven	Add to Playlist	2
The Morning	Add to Playlist	2
Bodytech: The Man Who Used...	Add to Playlist	2
Evening Jordan	Add to Playlist	2
Steinbock: The Film	Add to Playlist	2
A History of Britain by Simon Sch...	Add to Playlist	2
The Hill at Hill	Add to Playlist	2
Summit	Add to Playlist	2
Wendy Parkins: A Life of Br...	Add to Playlist	2
10 Things You Didn't Know About T...	Add to Playlist	2

My Playlist

Recent Documentaries

Swampland

Prison

Prison at Prison

New Playlist

New Playlist

My Other

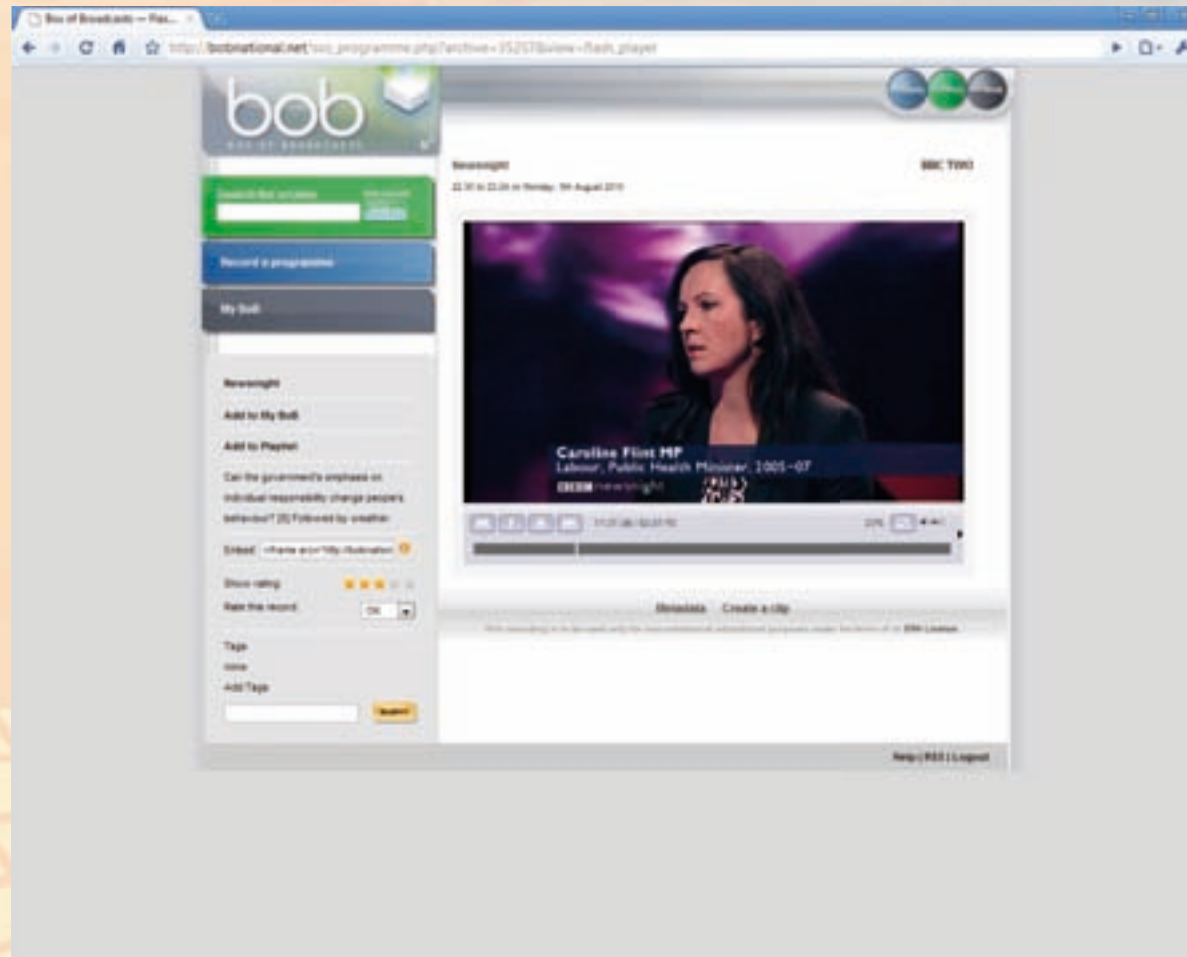
Big Wave: Introduction	Add to Playlist	2
Big Wave: The World's Biggest W...	Add to Playlist	2
Big Wave: A Carbon Stone Natural	Add to Playlist	2
Big Wave: Seawright	Add to Playlist	2
Big Wave: 50/50: How to Survive t...	Add to Playlist	2
Big Wave: The Games of Polynesi...	Add to Playlist	2
Big Wave: Countdown: Coast: Sea...	Add to Playlist	2
Big Wave: Two for the Money	Add to Playlist	2
Big Wave: Head to Head	Add to Playlist	2
Big Wave: Business	Add to Playlist	2
Big Wave: Beach of the Day	Add to Playlist	2

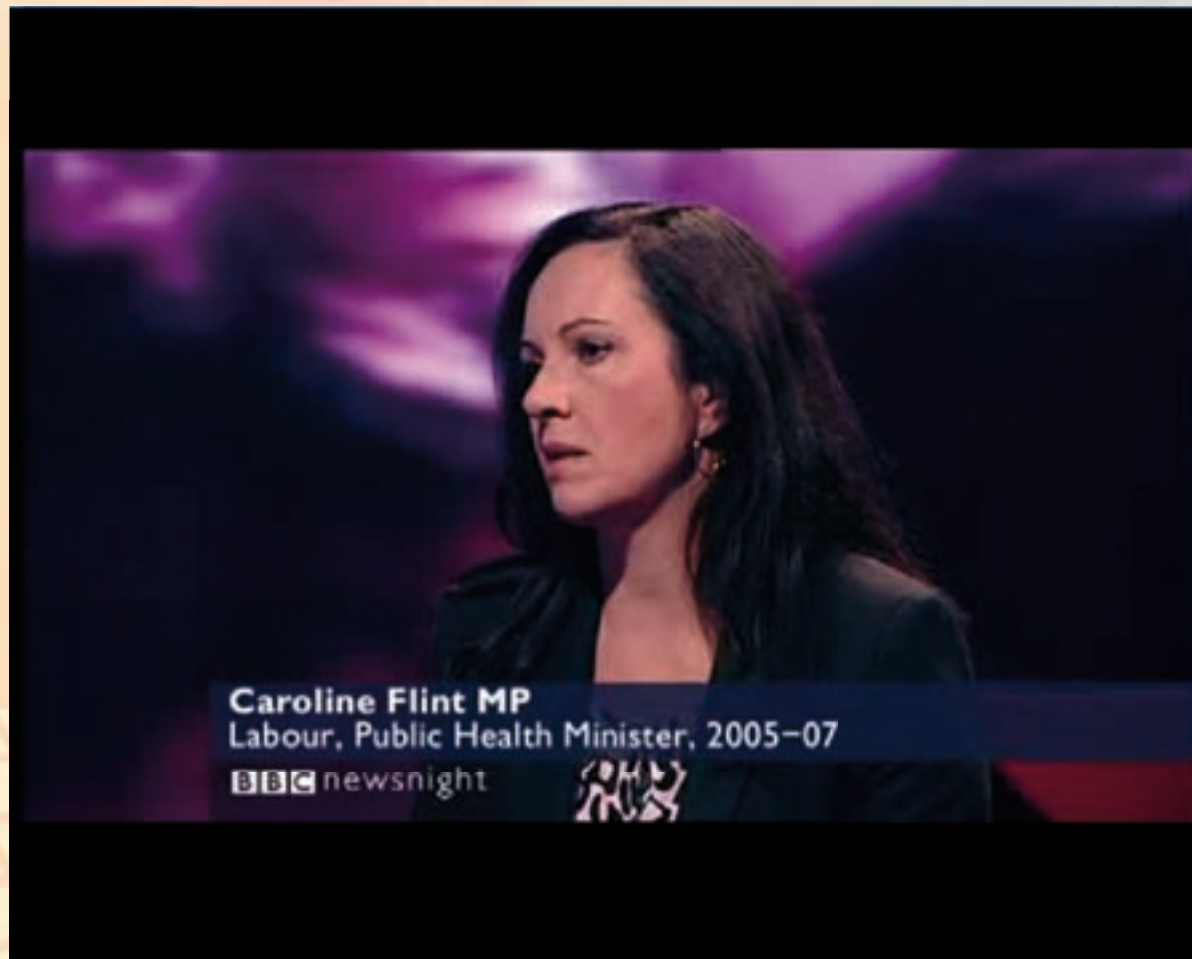
The screenshot shows a web browser window displaying the Bob National website. The address bar shows the URL: https://bobnational.net/sas_results.php?start=0&archivedonly=1&searchword=newnight&box=33&g=11. The page features the Bob logo and a search bar with the text "Search the Archive". Below the search bar, it indicates "Results for 'newnight'" and "Page 1 of 15 of 15".

The main content area displays a list of search results for "newnight". Each result includes a date and time range, a title, a brief description, and a small thumbnail image. The results are as follows:

- Results 1 to 15 of 155**
- Newsnight**
22:30:00 to 22:32:00, 27/06/2010 on BBC Two
Jeremy Paxton presents a special on retirement. The programme looks at why the normal model is unsustainable, what it is to be old in 2010 and what lies ahead for the young. (2) Followed by weather.
- Newsnight**
22:30:00 to 22:34:00, 16/06/2010 on BBC Two
In-depth investigation and analysis of the stories behind the day's headlines with Kirsty Wark. Labour leadership hopeful David Miliband discusses facing the deficit. (2) Followed by weather.
- Newsnight**
22:30:00 to 22:34:00, 06/06/2010 on BBC Two
Can the government's emphasis on individual responsibility change people's behaviour? (2) Followed by weather.
- Newsnight**
22:30:00 to 22:34:00, 11/06/2010 on BBC Two
Mark Urban explores the record amongst parents in Ravelston as evidence increases in the city. Presented by Kirsty Wark. (2) Followed by weather.
- Newsnight**
22:30:00 to 22:34:00, 14/07/2010 on BBC Two
In-depth investigation and analysis of the stories behind the day's headlines with Kirsty Wark. Can customers really fit the gaps created by a shrinking state? (2) Followed by weather.
- Newsnight**
22:30:00 to 22:34:00, 19/07/2010 on BBC Two
News analysis with Kirsty Wark. An Afghan soldier has killed three British soldiers and injured four. How will the impact on the reputation of power? (2) Followed by weather.

The left sidebar contains navigation links such as "Search the Archive", "Record a programme", "My Bob", "NEXT STEPS", "RECENTLY VIEWED", and "LATEST ADDITIONS".





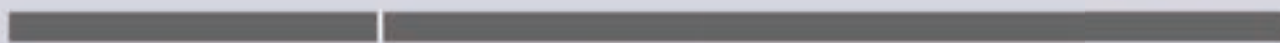


We know in these hot springs if it is acidic and really hot,



18:18.00 / 1:02:59.24

29%



The Problem

ERA+ license permits access to the resource across the www - -
available to users over the open internet

Content can't be accessed outside the UK

How do you stop users outside the UK accessing Content?

The Solution - Geo-IP Blocking

IP Address Allocations

- 1.Highest level:Internet and Name Authority (IANA)
- 2.Regional Internet Registry (RIR)
- 3.For Europe, the Registry for IP European (RIPE)
- 4.ISPs within geographical location

- Each internet user within a geographical domain has an IP address which identifies their geographic region.

The Solution - Geo-IP Blocking

User requests come with information –
their incoming IP address

We can work out the geographic origin of the request
We have a database of IP address ranges

GeoLite Country – Updated monthly, 99.5% accurate

If users are outside a target range of IP addresses which cover
the UK geographic boundaries they are simply refused entry

Other Uses

Reduce Spam for Mail servers

United States 42%

South Korean 13.43%

China 8.43%

Taiwan 1%

Protection from attacks from particular regions.

Circumventing the system

The user can connect their machine to a network in the UK

Hackerware

No 100% complete solution

Can a user share credentials?