

SSDN Update - NHS - HE Forum 070607

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Technical work



SSDN Interconnect - current progress

Glow - the current state of play

One example application which could interact with the NHS Sector

SSDN Interconnect



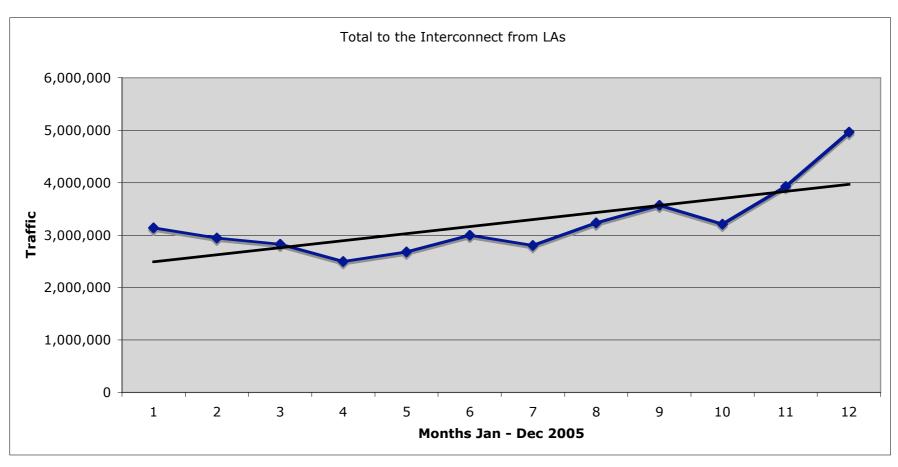
2003, Initial 3 year contract with UKERNA

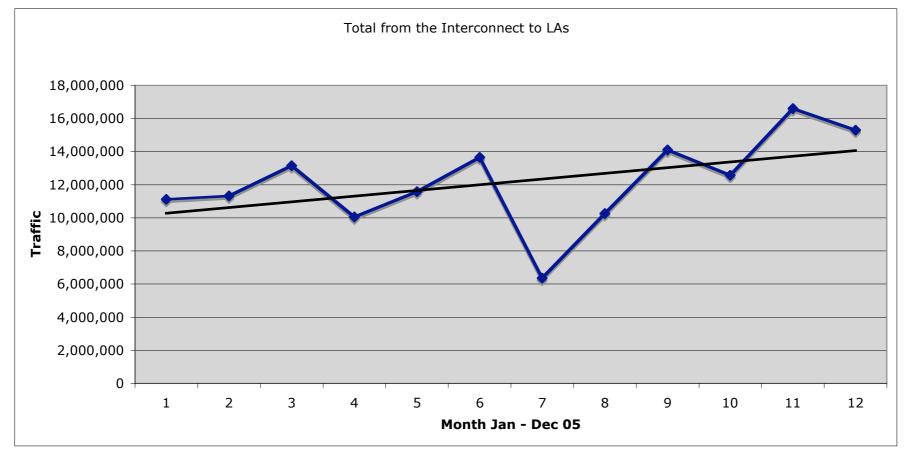
Extended for additional year

Now being extended again till end January 2008

Used by 100% of Local Authorities and National Agencies

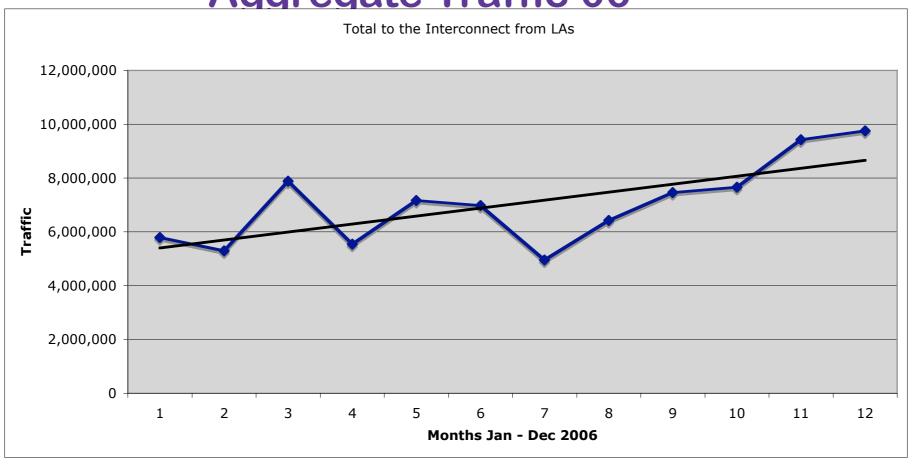
Aggregate Traffic 05

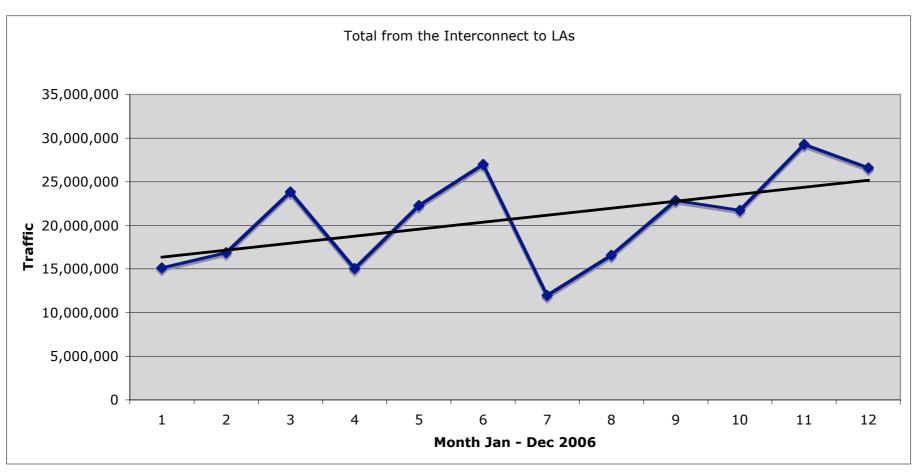






Aggregate Traffic 06

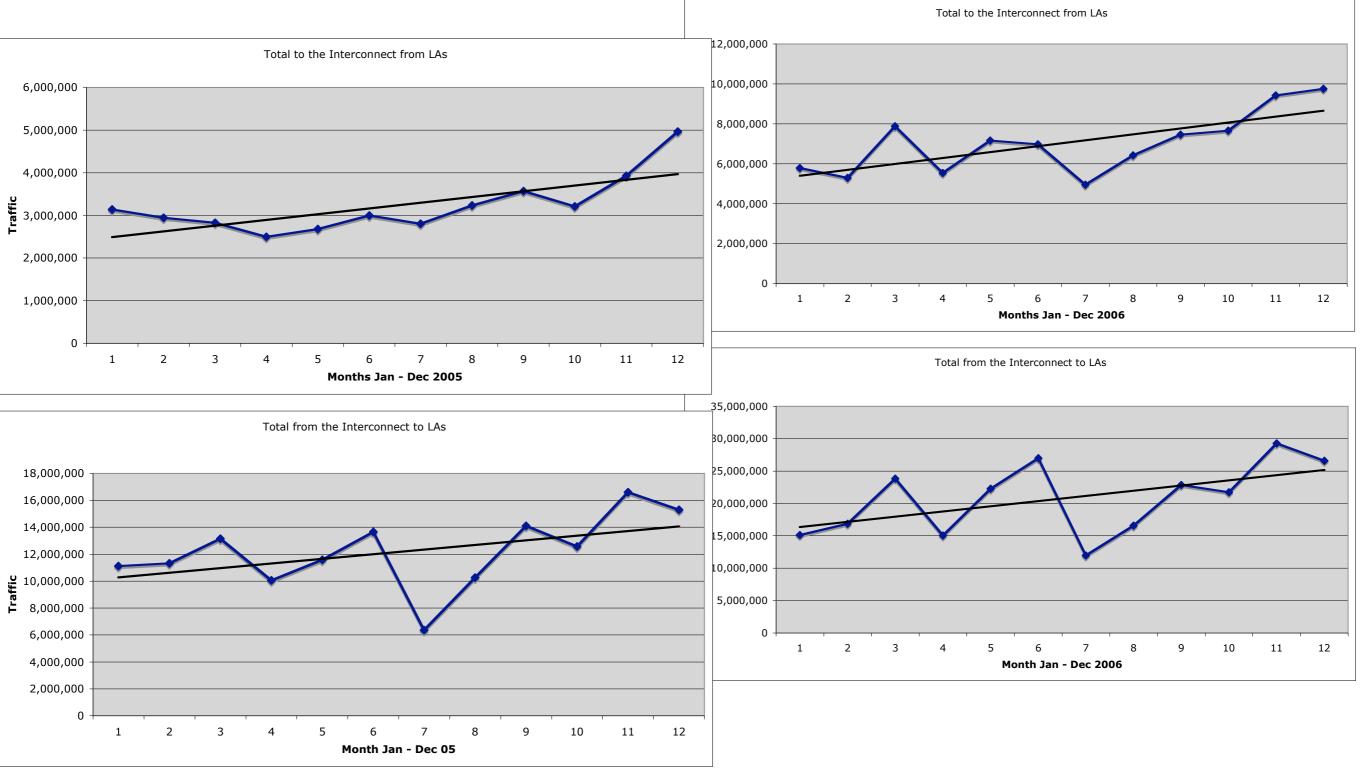






Aggregate Traffic 05/06





Development of the Current Interconnect



Initial Connections

- **32 Local Authorities**
- **2** SQA
- **2** LTS
- 1 SEEMIS

Added Connections

- **2 Glow Data Centre**
- **2** Improvement Services
- **Data Centre**
- 1 LTS CoLocation

Facility

Current Total 42 Connections

Additional LAR Ports
For either Corporate access or
Improvement Service Traffic



Current Activities

- New Educational Developments division and Procurement Division considering options
 - Cannot repeat current contract
- Possible Official Journal for European Union (OJEU) procurement process
- Grant Aid option between Scottish Executive and the Joint Information Systems Committee (JISC)



National Education Network (NEN)

- England/DfES now has contract through Grant Aid arrangement for NEN service package
- More than just connectivity
- Includes other services such as DNS, Janet VC booking Service, Content Access Registry + More
- English RBC's are now represented on the JISC Committee for Networking (JCN).
- JANET no longer the preserve of the particle physicist community





What will it be like?

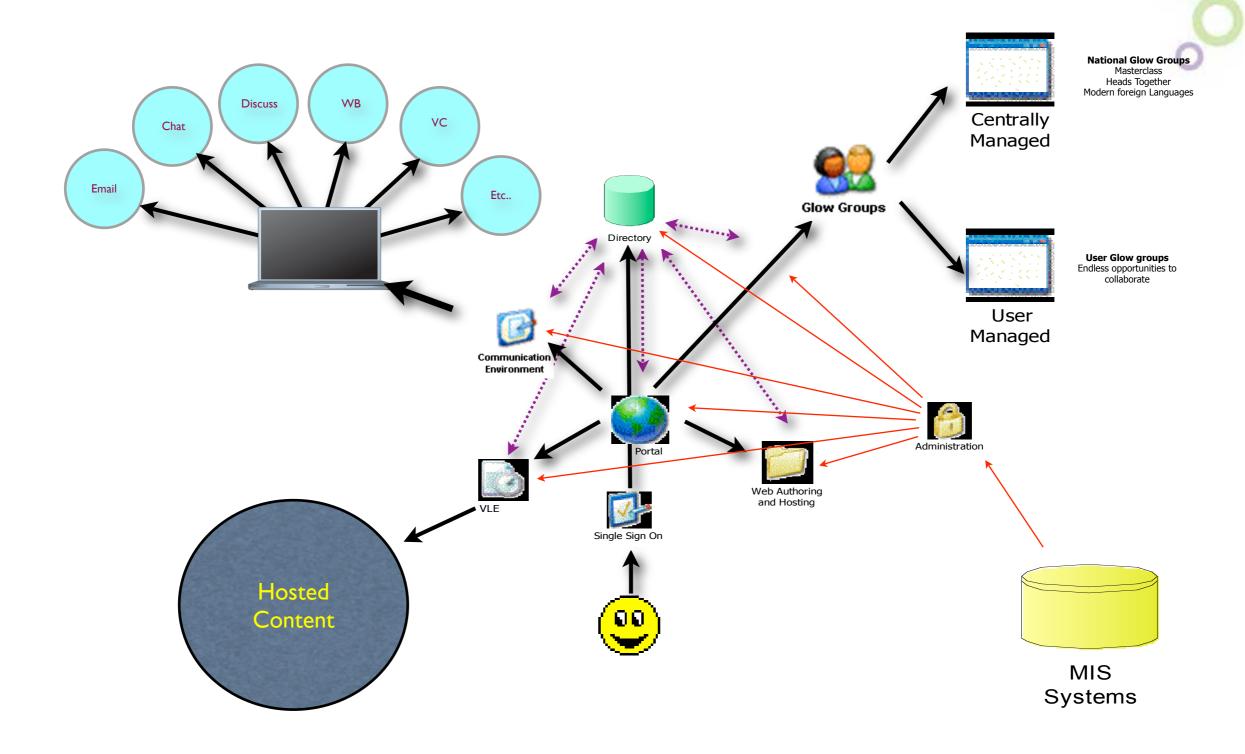
- LA's have been surveyed following needs identified
- Improved Resilience (how?)
- 24/7 cover (how?)
- More scalable bandwidth provision (how?)
- Can the JANET Metropolitan Area Networks (MAN's) assist
- Consider the needs of projects like Improvement Services?



Current Activity

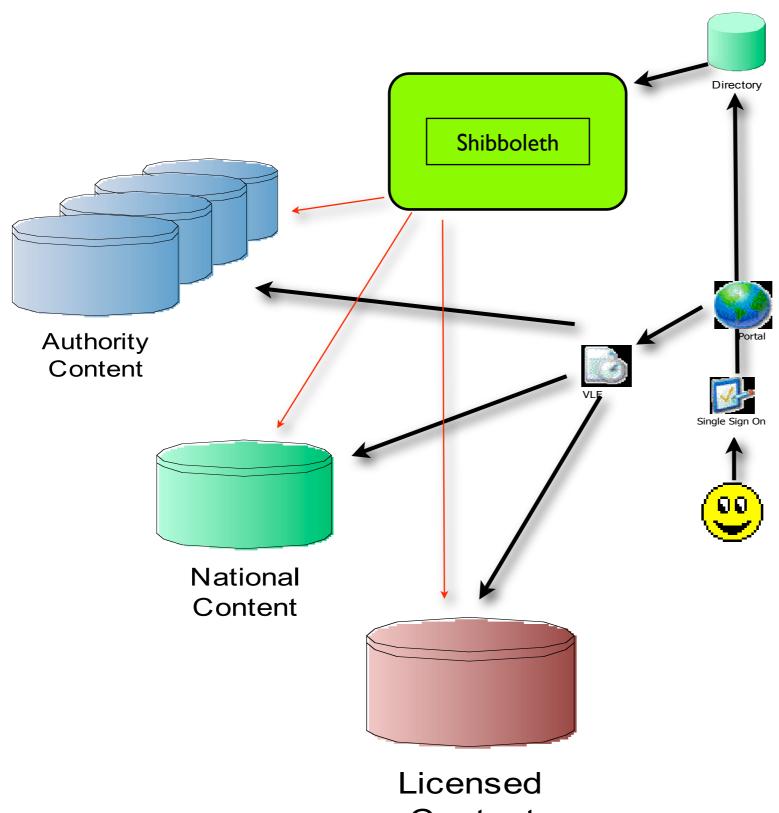
- Discussion with Scottish Executive about way forward
- Possible partner working with Improvement Services
- Aim to get new provision in place by end January 2008
- Recognize that this is key infrastructure for supporting Glow
- Acknowledge diversified use of the Interconnect
- Will have to come back to LAs when actual design and procurement work starts in earnest.

Glow - Internal



Glow and **External Content**





Content

Glow - Progress with Pilots

- Phase 0 (complete)
 - 28 of 32 LAs
 - DX only



- No directory or authentication service
- 3 LAs
- first use by pupils, teachers and administrators
- Phase 1 (complete) October 06
 - 8 LAs and 600 Mentors
 - Portal Plus Authentication and Glow Groups
- Phase 2 (complete)
 March May 07
 - 13 LAs and 600 Mentors
 - Collaborative Chat, Glow Meet, Glow Groups, SFT, Video Streaming and Web Hosting

March 06

Glow - Progress with Pilots



Phase 3 (current)

June 07

- LA's including pupils and Mentors
- Automatic provisioning of users
- Glow Learn
- Presence (Live Communications Server)
- Instant Messaging (for staff only)
- Still to come before September 07
 - UK Access Federation
 - Glow Meet JVCS integration

Glow - Pilot Problems



- Firewall Configurations
- Bandwidth school connections
 - 2Mbps ADSL 5 8 concurrent portal sessions
 - aside from Pathfinder Local Authorities, 49% of Scotland schools on 2Mbps or less.

Glow - Full Service



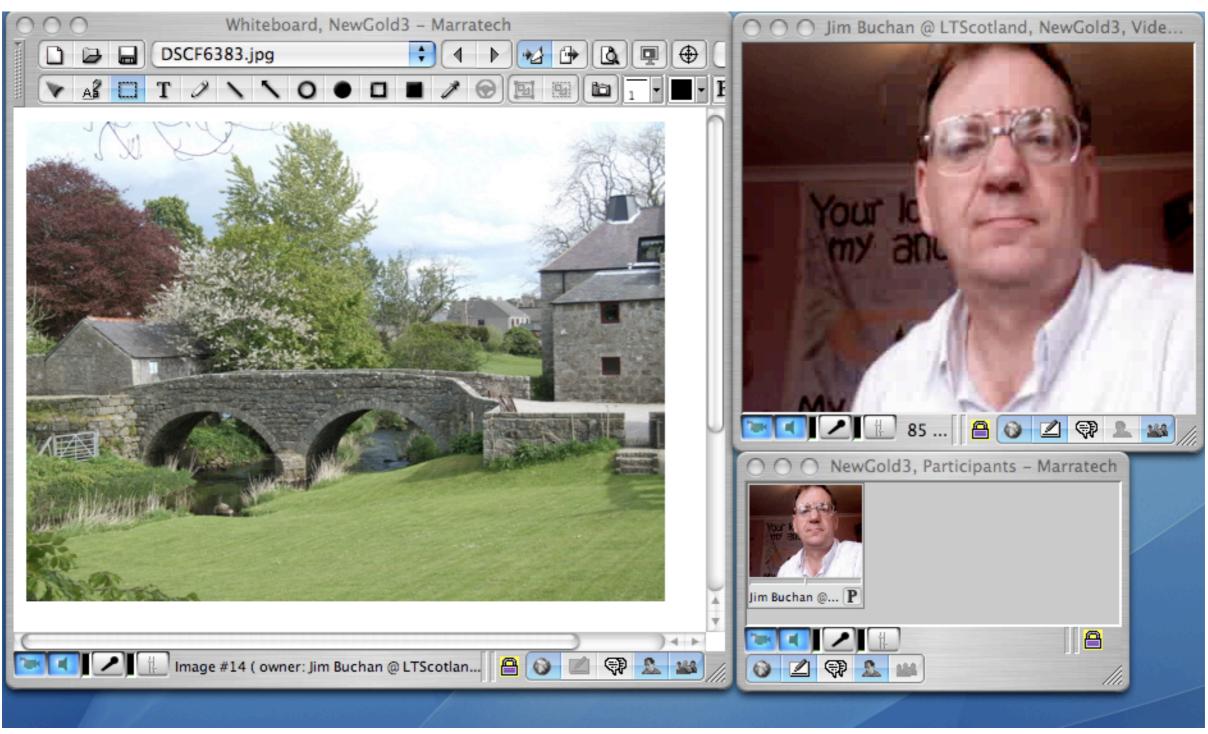
Formal Launch of production service at the Scottish Learning Festival - 19th September 2007



Facilities of Glow Meet

- Desktop Video/Audio Conferencing
- Shared White board
- Cross Platform Application Sharing
- Localized chat tool
- H.323 Gateway for connecting external Video/Audio only end points via JVCS booking service.







Adding H.323/H320 into a Glow Meet Room

The owner of the Glow Meet room can invite a guest participant

External end points can only be connected via JVCS

Glow room needs to be registered on JVCS as a H.323 end point with a E.164 number



Invitation

Include the following text in an e-mail to the people you wish to invite.

This is a link to enter the e-meeting room "NewGold3": <URL:http://mvc.glow.ltscotland.org.uk:8000/launch.jsp?sid=29>

E164

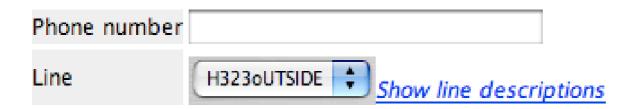
The e-meeting room is assigned the following E164 number for calling into this session.

E164 GK 00440233237766 212.219.202.181

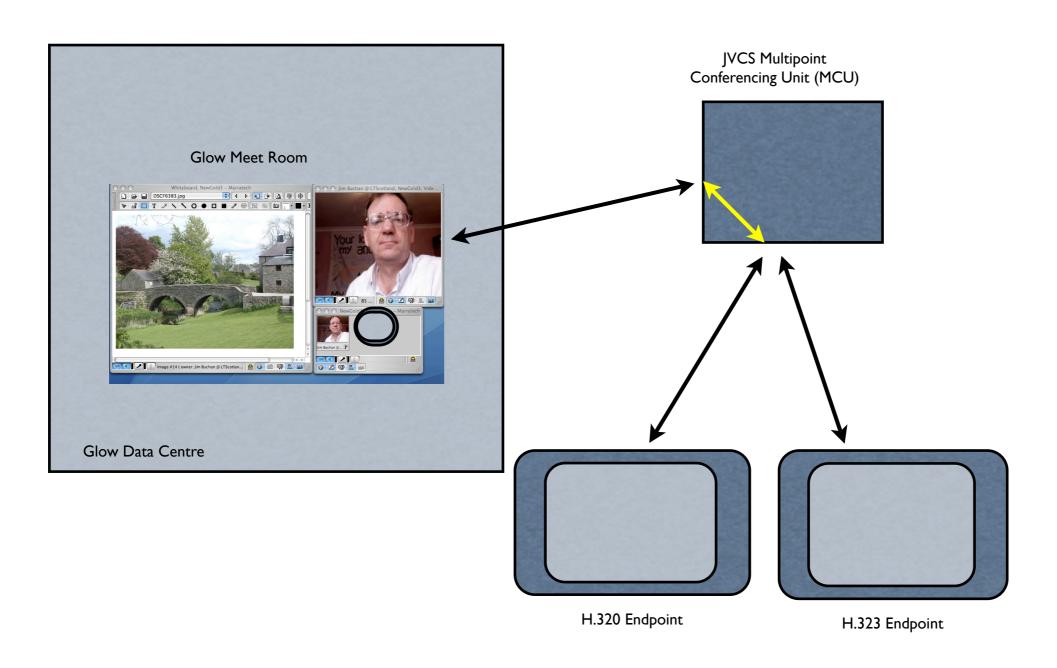
Dial out



Place a call to a landline, mobile or IP telephone, or a video conferencing device, from within thi telephone number, SIP address or H.323 address and choose the appropriate line.









Glow Group Owner

- Sets up the Glow Meet room
- Sets up the JVCS multipoint booking
- The room owner is responsible for external (none Glow Authenticated) participants
- Existing Local Authority/School H.320 and H.323 end points are considered to be external and must be registered with JVCS to achieve this.
- E.164 numbers need to be allocated see http://www.ja.net/school/vc for details.

CDI and **Pre-positioning**



- Placing Broadband assets on school CE's
- Recent/Current work Virtual Work Experience, Mothership, Espresso, Clip Bank, Highland Podcasts
- Benefits less congestion on upstream links
- It is likely that there will be more
- Need for additional disc capacity on school CE's

Schools - Bandwidth



- Limited bandwidth was identified to be a source of concern during the Phase 1 pilot
- ADSL (2Mbps 20:1 ratio) only 5 8 concurrent portal sessions were possible
- Tests were done and the situation has been monitored during Phase 2.
- Where current limits exist it is essential to manage expectations to provide an acceptable user experience.
- LA local infrastructure stats have been collected and analyzed considerable percentage of school are on 2Mbps and less

LA Infrastructure Knowledge Base



- System will be Web Accessible, similar to the Becta one
- LA's will own their own records and can update them as necessary
- System will provide ongoing analysis about school connectivity
- LA staff can see how their provisions compare to the 'national' picture
- Scottish Executive can have access to the summary data for planning purposes.
- Product at early Beta stage will look for LAs to test the product soon.



Questions?



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