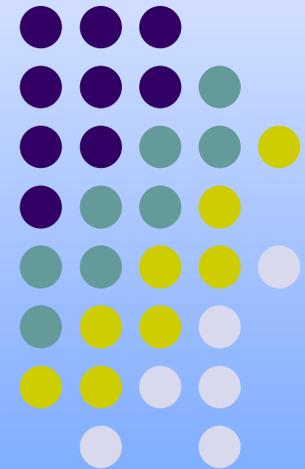


Vide Conferencing in the UK

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Overview

- Videoconferencing is now much more “mature”
- Systems used by UK HEP groups
 - Studio based
 - “Desktop” based
- Facilities used
 - MCUs etc.
- Feedback from users



Tools and Technologies

- All technologies are in use
 - ISDN H.320
 - VIC/RAT (VRVS)
 - H.323 (VC over IP)
 - Streaming video (RealPlayer)
- Trend is clear however
 - Reduction of ISDN in favour of IP based solutions when possible
 - Large sites still use ISDN, but costs for small institutes are too high
 - IP solutions are now much more reliable



Tools and Technologies

- Streaming video mainly used to webcast plenary sessions of e.g. experiment collaboration meetings
 - No remote audience interaction with speakers/participants
 - Allows for online storage and replay of presentations
 - Useful for reference after the event



Studio Based Systems

- Most universities/sites have central, studio based facilities
 - Not dedicated to HEP
 - May be very busy
 - Not always convenient
 - University may charge for use
- All support ISDN
- An ad hoc survey of HEP sites seems to suggest that use of these facilities is falling in favour of group/desktop systems



Desktop Systems

- Hardware Codecs
 - Many groups have Zydacrons
 - 350/360 H.323
 - Only one group has an ISDN board
 - Also lots of ViaVideos
 - Software issues here:
 - v3.0 seems to break interoperability with many other systems
 - v2.2 seems OK
- Microphones/Speakers
 - Range from headsets to Polyspans



MCUs

- Much use of ESnet services
 - CDF regular users
 - HERA experiments
 - No problem reports about service
- More recently, JVCS service launched in UK
 - New H.323/IP service
 - ISDN and IP/ISDN gateway
 - <http://www.jvcs.video.ja.net>
 - Kit must pass their QA tests before you can use the service
 - Really aimed at studio systems
 - Desktop hardware codecs at low end of acceptable
 - No software codecs allowed
 - System does include rate-matching though



UK Campus facilities

- Some sites have their own MCU
 - Glasgow
 - Heavily used for teaching
 - H.323/ISDN gateway
 - UCL
 - H.323 MCU
 - Used by Grid project (with booking in advance)



Experience

- ESnet
 - CDF have used DCS successfully via H.323 gateway for a long time
 - Also using H.323 ad hoc facility
- JVCS
 - Early days yet
 - No large-scale experience but early adopters responses have been positive despite QA requirements



Experience

- VRVS
 - Used at CERN
 - DESY also beginning to use it for meetings
 - H.323 mode has compatibility problems with Zydacron and ViaVideo v3.0
- User responses
 - Mixed
 - Some groups find it OK
 - Others have given up using it altogether
 - Seems that once a system has been set up and made to work then everything is OK
 - Problems occur when trying to set up machines from scratch each time
 - Comments made that it's very hard to diagnose where a problem is – local or somewhere down the line



Experience

- One or two comments from heavy users about purely phone conferences
 - PC to display slides
 - Conference phone+call
 - although cost issues for conference calls
 - BarBar meetings often held this way



Access Grid

- Not much to report
 - AG nodes starting to appear
 - Some people have tried it
 - No feedback yet



Issues

- Firewalling
 - Not yet a nationwide problem
 - Will become increasingly so as universities move to default deny firewall policies
 - No UK wide solution as yet
 - Individual sites working with their infrastructure people
 - Firewall policy may be outside direct control of HEP groups
 - This is a worry going forward



Issues

- Data Sharing
 - Most (if not all) VC solutions offer data sharing
 - Desktop/Window sharing for example
 - Not widely used
 - Standards? Interop
 - Some use Netmeeting, others have browser-based Java applets
 - No recommendations as yet



Summary

- VC is working for HEP in the UK
 - Some glitches, annoyances
 - Current recommendation to groups is ViaVideo
 - Zydacron no longer recommended
 - Warning about v2.0/v3.0 ViaVideo compatibility
- H.323 IP based conferencing is becoming dominant
 - Ad hoc H.323 would be nice, but how simple to implement?
- Concerns about firewalling going forward