

→ AARNet 2004

Video over IP Working Group

QUESTnet 2004
July 7th, Session One



→ AARNet Video over IP Working Group

The Working Group has

- a Steering Committee
- an email list (strictly monitored to stop advertisements) video-l@lists.aarnet.edu.au
- a web site
<http://www.aarnet.edu.au/engineering/wgs/video/>

The Working Group is open to AARNet members, vendors and the public.



Australia's Academic and Research Network

→ Operation

- Working group functions through the email list, OzEConfs.
- The Steering Committee meets by video conference, email and occasional face-to-face meetings.
- It reports to the CEO of AARNet Pty Ltd.
- Contact and interaction with the Steering Committee can be made directly to its members,
or to the Working Group Support Officer:
ann.pettigrew@aarnet.edu.au
or by joining the mailing list:
video-l@aarnet.edu.au
- The web site is the official record of the group:
<http://www.aarnet.edu.au/engineering/wgs/video/>



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→ Steering Committee

- | | |
|-----------------------|--|
| • Michael Fry (Chair) | The University of Sydney |
| • Markus Buchhorn | The Australian National University/GrangeNet |
| • Malcolm Caldwell | Charles Darwin University |
| • Andrew Howard | AARNet Pty Ltd |
| • Stephen Kingham | AARNet Pty Ltd |



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→ OzEconference

- Monthly videoconference - last Tuesday of each month, from 1.00-2.00pm.
- An opportunity to test equipment and to discuss issues and learn from the experiences of others.
- Presentations in the last 12 months have included:
 - Tandberg MCU and endpoints
 - Starbak
 - Videoconferencing at Charles Sturt University and James Cook University
 - Lighting for videoconferencing
 - Reports on Internet2 Members Meeting (Indianapolis) and Internet2 Joint Tech Meeting (Hawaii).
- Participation by H.323 and Access Grid
- Presentations available at
<http://www.aarnet.edu.au/engineering/wgs/video/presentations/>



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→ International Activities

- Megaconf
 - held in December each year
 - world's largest simultaneous Internet videoconferencing event
 - Megaconf V, 2003: more than 1000 participants from over 200 institutions in 27 countries on 5 continents
- Junior Megaconf
 - held for the first time in May 2004
 - for K-12 students worldwide
- International Peering
 - using GDS numbering
 - use is growing
- New APAN H323 SIP Working Group



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→ Issues and trends

- QoS
 - always a problem in member networks
 - should improve in the core with upgrade to multiple 10Gbps
- Vendor equipment not always reliable
- Firewalls
 - not supporting H.323 version 4
 - being implemented by members
- Huge growth in personal videoconferencing
- Interest in SIP

→ MCUs in AARNet

- Joint operation between AARNet and CSIRO
- Two MCUs, one ISDN gateway, basic booking system (can also book through CSIRO Help Desk);
- Used for conferencing and as an emergency backup should a university's own MCU fail;
- One MCU recently upgraded with hardware video processing card rather than software;
- Users nearly always blame MCU when often the fault lies elsewhere; need to provide support for fault finding.

→ Some MCU statistics

Approximate Stats from 1st July 2003 to 14th June 2004 based on processing call records from Gatekeepers.

- Number of conferences: 1462
- Average number of participants per conference: 5
- Average number of calls per conference: 9
- Average number of conferences per working day: 5
- Maximum number of conferences in one day: 10
- Maximum number of Voice Only conferences in one day: 9
- Maximum number of Video Only conferences in one day: 9
- The largest conference had 34 participants.

→ Issues Going Forward

- AARNet3
 - QoS changes for video
 - Billing changes for video
- SIP integration/migration
 - End Points
 - Routing
 - MCUs
 - Training
- Service level definition
 - AARNet vs member
 - network
 - MCU
 - terminal /user
 - Resource requirements
 - Network management

→ Contact Information

- Video over IP Working Group web site
<http://www.aarnet.edu.au/engineering/wgs/video/>
- Share your own experiences, including problems and solutions, with the group.
- Get involved with this and other AARNet Working Groups.
<http://www.aarnet.edu.au/engineering/wgs/>
- IP Telephony
- IPv6
- Multicast
- QoS
- Subscribe to the mailing lists of AARNet Working Groups.
<http://lists.aarnet.edu.au/mailman/listinfo/>
- Contact the Working Group Support Officer.
ann.pettigrew@aarnet.edu.au

