

Video Over IP

Solutions for Enterprise Growth

Topics:

SIP

Packet Loss Recovery

H.323 global address book

Transversing Firewalls using Ridgways Technology

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Video over IP – Session Initiated Protocol (SIP)

TANDBERG will support SIP

- Very popular for voice and low end video solutions
- Still challenges with SIP for video: Missing MCU services, presentation mode (Duo Video), FECC, QoS, NAT and number plans.
- TANDBERG works both in the IETF and in the SIP forum
- TANDBERG will support SIP in our endpoints when the standardisation of video over SIP is complete. TANDBERG will also ensure that the H323 and SIP world is bridge such that interoperability is ensured between group tools and new desktop solutions. TANDBERG expect H323 and SIP to live side by side for a long time.



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Video over IP – Cisco SCCP support

All TANDBERG systems will be able to run SCCP by the end of the year.

With SCCP you get telephony services

- Hold
- Resume
- Park
- Redial
- Call forward
- Conference calling (on the fly)
- Call transfer
- Call pickup
- Speed dials
- Voice mail access
- Record of missed calls, placed calls and received calls

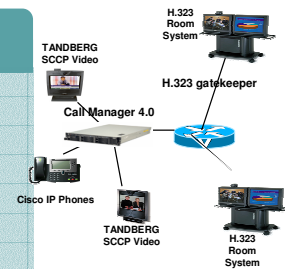


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Video over IP – SCCP mixed with H.323

All TANDBERG systems will be able to run SCCP by the end of the year.

- It is possible to integrate the SCCP Video solution into a already existing H.323/H.320 video network
- Going H.323 through a H.323 gatekeeper
- Going H.320 through a H.323/H.320 video gateway



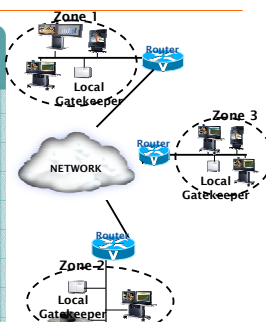
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Video over IP – Packet Loss Recovery

All TANDBERG Systems support Intelligent Packet Loss Recovery (IPLR)

Standard based and works with H.261, H.263 and H.264 towards any other H.323 devices.

- Receiver: Packet loss detected, will minimize the impact off lost packets.
- Transmitter: Packet loss detected (1-2 %): Codec will go into robust mode
- Will send more Intraframes and Intraframes. Makes receiver less dependent on previous packets to build up frame

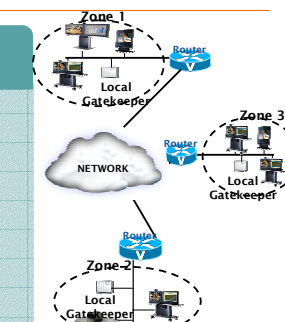


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Video over IP – Packet Loss Recovery

All TANDBERG Systems support Intelligent Packet Loss Recovery (IPLR)

- Will assume packet loss is caused by to high call rate
- Will downspeed all the way to 192kb if necessary
- If still packet loss, the system will upspeed to original callrate, assuming the call rate is not the reason behind the packet loss.



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Video over IP – H.350 address book

H.350 address book supported by TMS (TANDBERG Management Suite)

- E4/B9 software will support real time directories pulled from TMS.
- Leverages H.350 in TMS to collect directory information from third party H.350 directory servers
- Search for names, numbers. Can even search using wildcards
- Unlimited number of entries.



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Video over IP – Transversing Firewalls using Ridgeways technology

Works towards any firewall, and transverse through any numbers of firewalls. Ridgeways VideoFreedom Client will be embedded into TANDBERG systems during Q1 2005

- All calls will look outbound to the firewall. Most firewalls will trust outgoing connections. If not, open port well known port 2776 and 2777 assigned by IETF.
- VideoFreedom Server can be hosted by ISP.
- Enables intra company communication through Internet

IP Freedom Semi-Tunnel/Transparent Traversal
ISP Implementation

