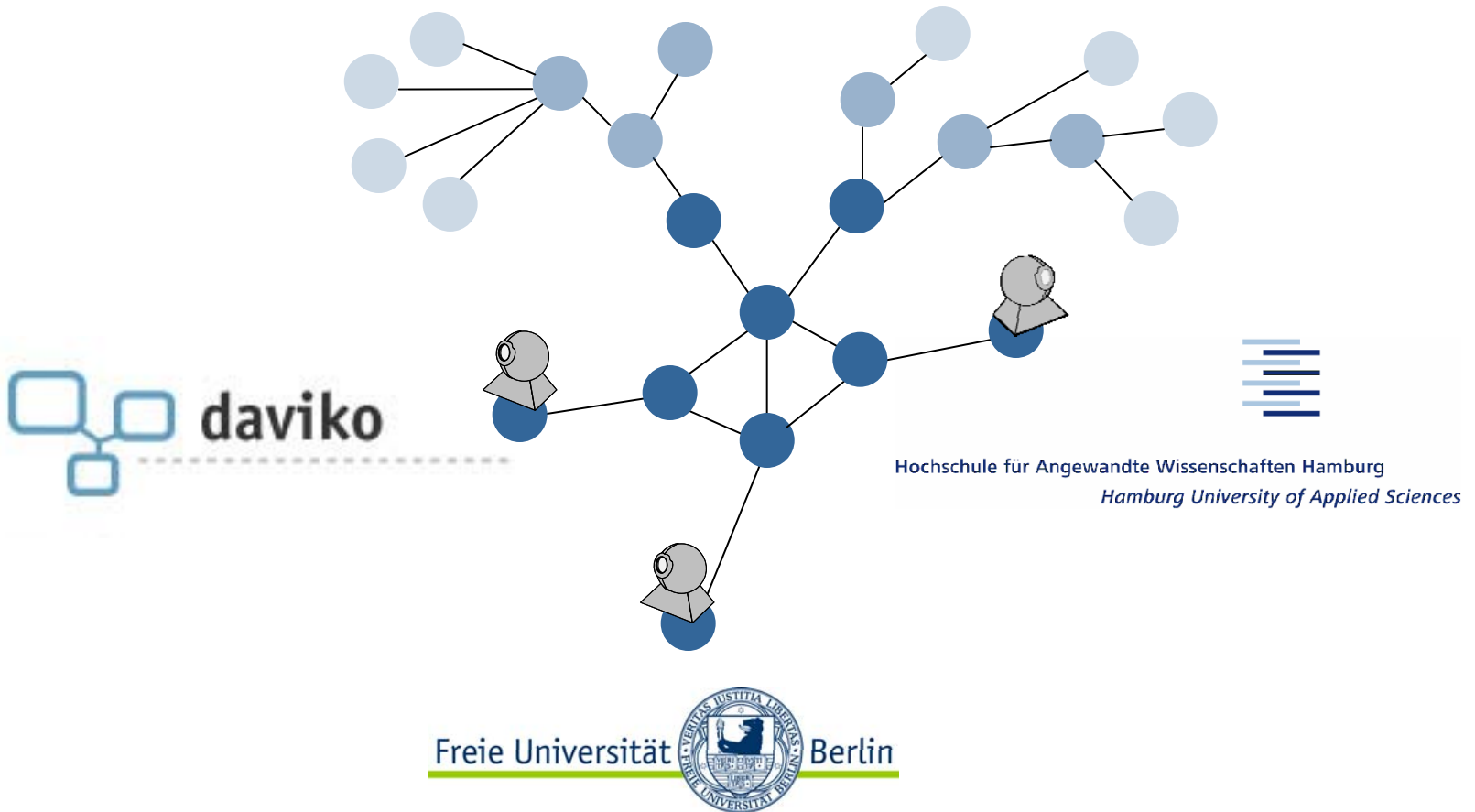
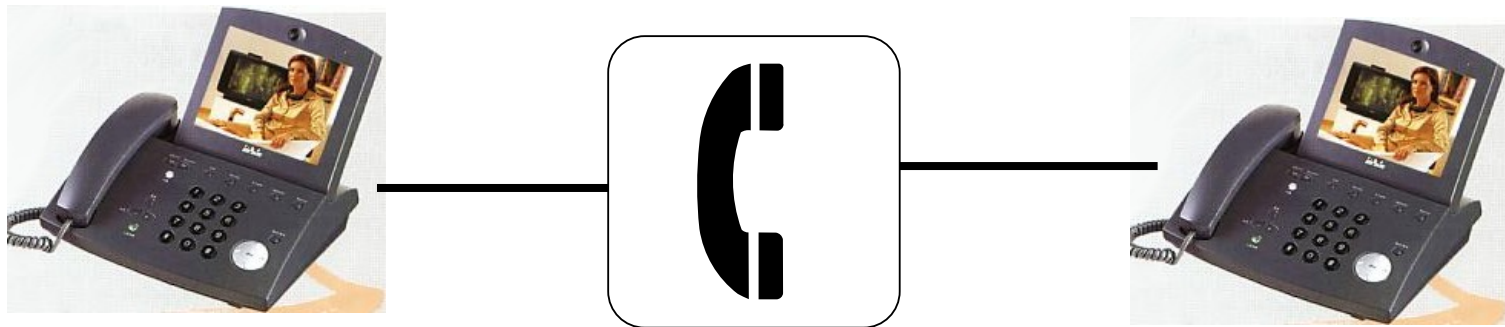


Connecting the Worlds with PlaceCam A Multipoint Video Conferencing Solution



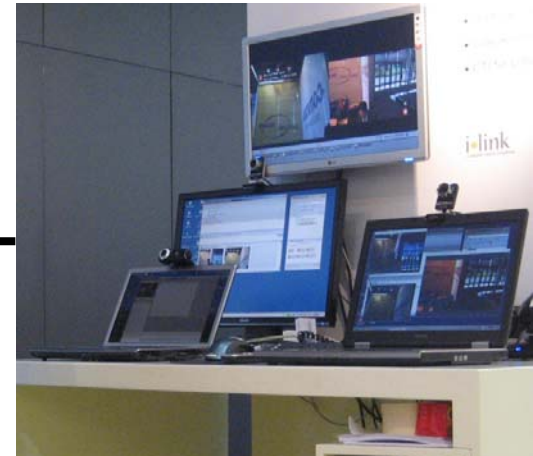
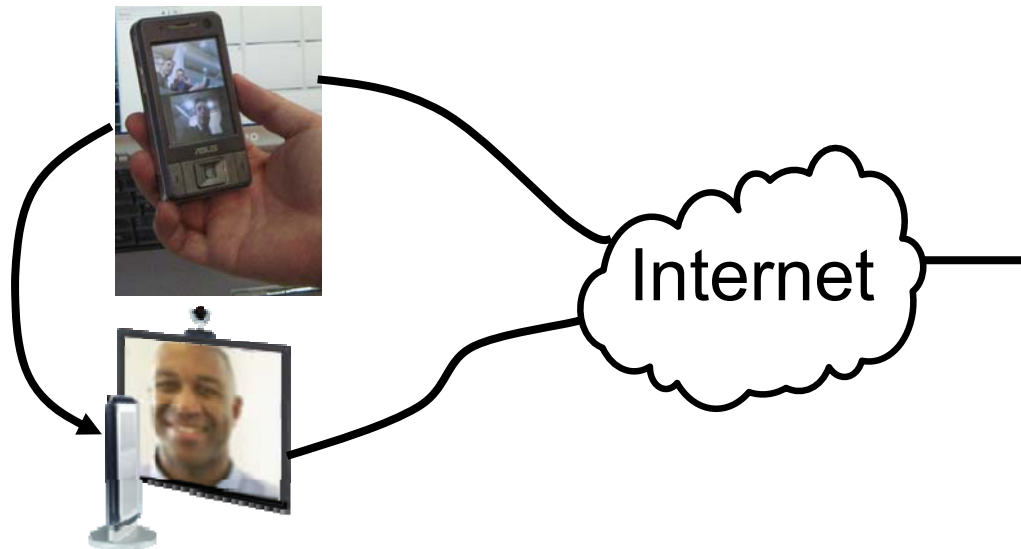
Why Videoconferencing over IP

- ISDN-based video telephony has not widely be deployed
- Internet is cheaper and more flexible ...
but requires globally addressable parties: [A case for IPv6 :-\)](#)
- Use the chance: Highly integrated videoconference solutions



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The daviko GmbH

- 2001: Founded as spin-off of the University of Applied Sciences Berlin
- Core competencies: Video coding and network protocols
- Involved in research collaborations, e.g., Moviecast
- Customers from industry, research, administration and NGOs

VORWEG GEHEN

SWR
FERNSEHEN

DAIMLER

NEC

Villeroy & Boch
1748

HiPP

n-tv

Lufthansa
Flight Training

CHARITÉ

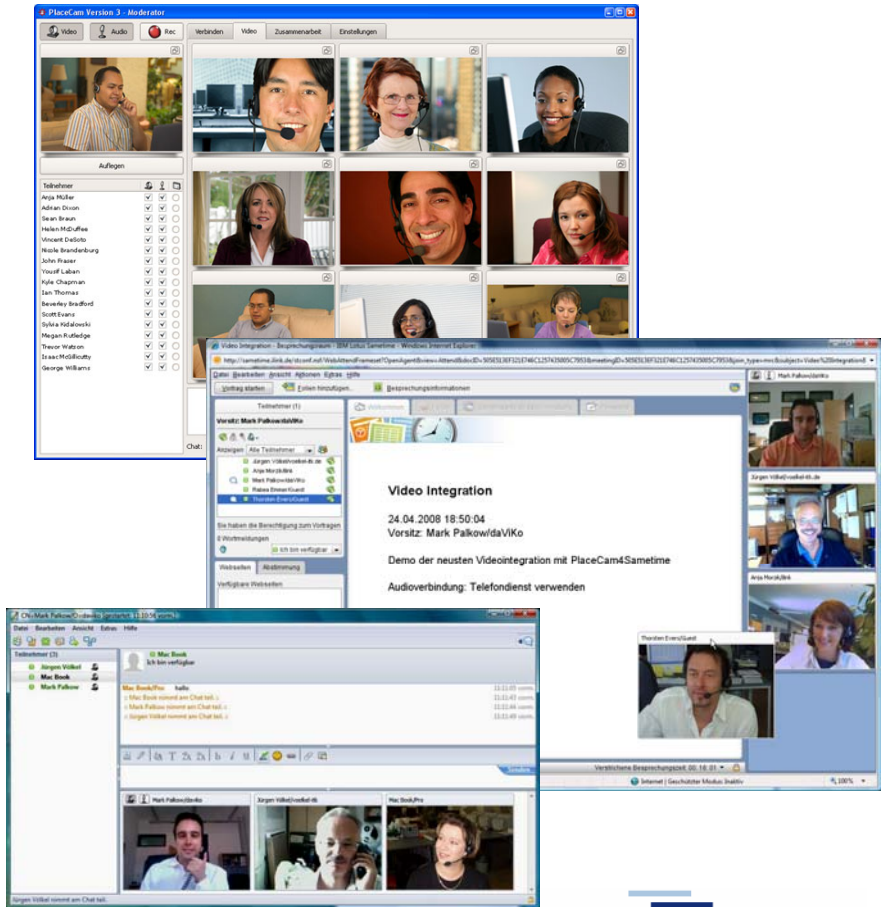
AM

Logo consisting of several horizontal blue lines of varying lengths.



PlaceCam – A Videoconferencing Solution

- Pure software approach:
No special hardware required
- Highly optimized H.264 codec
- Multipoint videoconferences
up to 40 participants w/o MCU
- Collaboration with Application
sharing & integration in
Lotus Sametime
- Available for Windows, Linux



Special Features in PlaceCam

- Pure IPv6 (and IPv4) support with IPv6 enhanced mobility
- SIP connects traditional video systems with PlaceCam
- Easy to use: Call an Email

Problem:

- Transition scenarios between IPv4 and IPv6
- SIP negotiation: Which IP version does your callee speak?



Some Technical Background: IPv6 Integration of PlaceCam

- Typical SIP scenario: Session initiation via proxy, media streams will be sent directly to callee
- Members are required to mutually explore and decide on the Internet protocol version

Solution to reliably determine IP versions for media streams:

- Caller sends initial SIP INVITE w/o SDP
- Callee learns IP version of caller from SIP INVITE message
- Callee sends OK including SDP, preferably with multi-protocol endpoints based on the ANAT extension



Thank you for your Attention!

Further information:

- PlaceCam: www.daviko.com
- This work is a result of the project Moviecast funded by the BMBF: moviecast.realmv6.org



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