Poznan Supercomputing
and Networking Center
Innovation Programme 2021
mingleMeet
interactive meeting space
for eduMEET

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Due to grants from GÉANT Innovation Programme we were able to:

- extend range of work related to eduMEET
- involve more developers for parallel implementations
- deliver 2 innovative functional extensions:
  - mingleMEET
  - VoDsync
- capture the interest of new groups of:
  - potential users
  - open source community

Thank you!
eduMEET

WebRTC based web-conferencing tool delivered as a software package for on-prem installations

The platform is part of the GÉANT online services portfolio

NRENs and MANs can run it as SaaS for their institutions

• Open source web-conferencing system
• Interactive, web-based videoconferencing platform supporting distant learning processes (LTI, official Moodle plugin)
• Created by the GÉANT community for R & E communities
• Trustworthy, private, self-hosted and secure
• We do understand needs and listen to our community
VoDsync

How to share high quality AV materials via videoconferencing systems?

- screen sharing?  
  the compression and framerate vs. video quality!

- share a link to external service?  
  synchronization not possible

How about new solution?

- innovative, synchronous approach
- embedded into web-conferencing system
eduMEET
VOD Sync
VoDsync

Upload
• prepare AV material(s) for sharing
• by uploading them via eduMEET tab ("drawer")

Manage
• playback management
  delete file(s), rearrange, add new

Control
• remotely and synchronously control all players
  play / pause / seek to a moment within the video
• players of all other participants displays the same!
  • remote players exactly follow the interactions at presenter’s player
  • presenter can make sure that all the participants see the exact same moment and can make pauses to explain fragments of the video
VoDsync

Use case scenarios - examples

- telemedicine
  - remote rehabilitation for group of patients
- education
  - common trainings that require accurate synchronisation
- art
  - synchronise AV background for all artists to align / synchronise feedback channels
VoDsync - architecture

- eduMEET server
  - Upload

- VoDAdmin
  - Playlist management
  - Playback Control

- VoDPlayer
  - Content playout
  - PlayoutControl

eduMEET client
Thank you!

Please join Multimedia session

Breakout room 2

15:00 - 16:30

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