



Yor easy privacy friendly meeting solution

eduMEET

- Browser based scalable meeting solution
- Startet 2016 as a POC under a GEANT activity
 - To research webRTC technology and to find out if technology is ready
- Type adresses in browser and join your meeting
- Basic meeting tools included (chat, screensharing, filesharing, recording)
- Privacy friendly
- International developer team (Poland, Hungary, Croatia, Norway, Sweden, Italy)
- Community (research & education) oriented
- This year: Transition to an community driven project (like eduVPN or eduROAM)
- Release v4

Live-demo

<https://edumeet-v4-demo.geant.org/vcc>

EduMEET v4 – new features

- Scalability
 - Management-server, Room-servers, media-nodes
 - Rooms can scale now over several media-nodes
- Complete rewrite
 - Typescript
 - Modularization (management, media-nodes, room-server, client, management-client)
 - Several middleware
- Management-server: API, moderation roles, tenants, groups, rooms
- Customizable audio for musical interaction
- OpenID Connect authentication (Via Keycloak: SAML, LDAP, ...)
- (Local) Recording
- Multiple video-sources (or audio) per participant possible
- Breakout-rooms
- Background blur

Try it on <https://edumeet-v4-demo.geant.org/vcc>



Roadmap

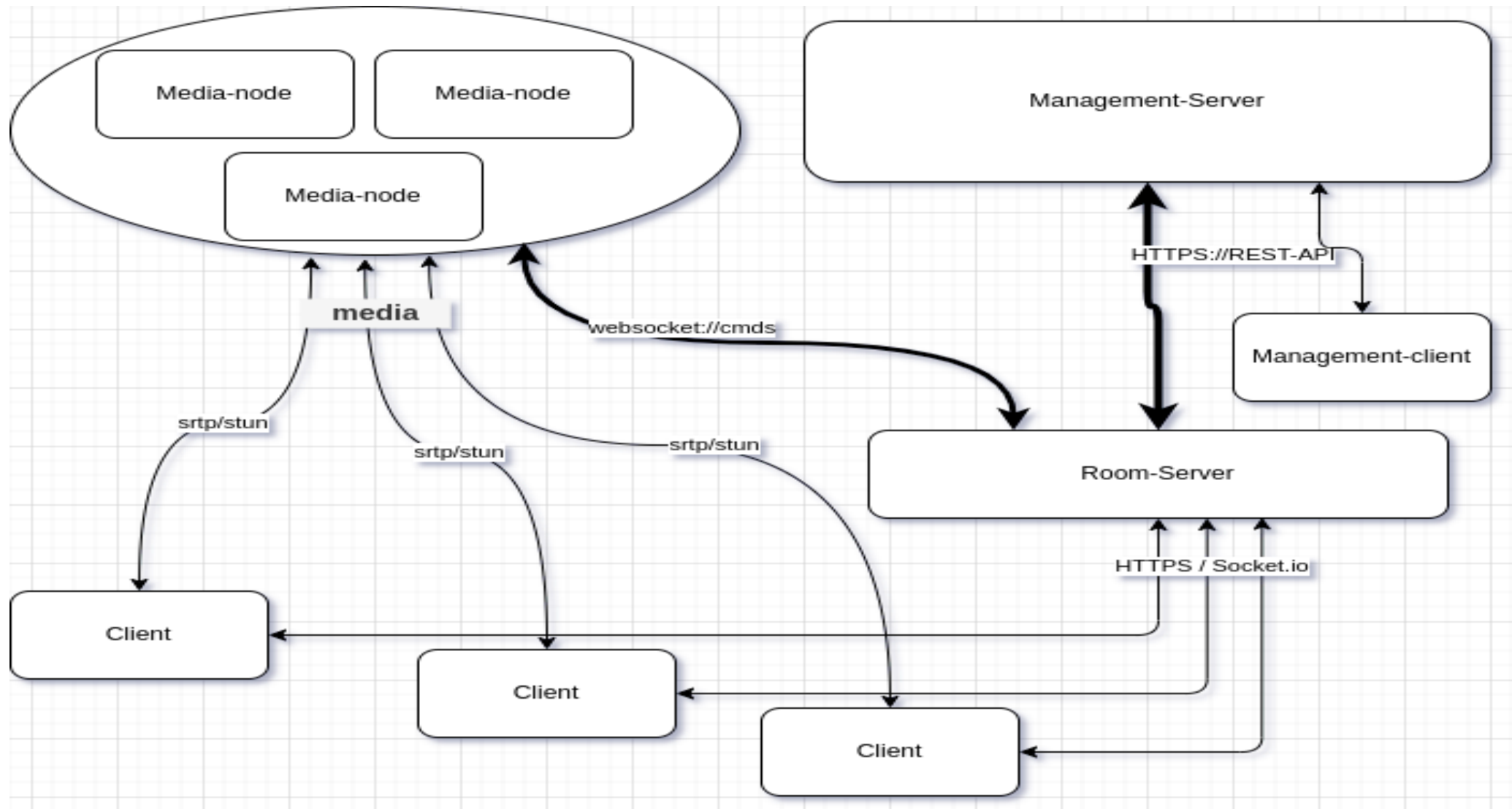
Roadmap

- Production ready release of new platform – **these days**
- Management web-interface for admins - **in progress**
- Advanced breakout rooms - **in progress**
- Improve UI to control VERY big meetings/webinars - **in progress**
- GDPR and privacy friendly recordings - **in progress**
- Live transcription – **in progress**
- Server-side recording – **in progress**
- Well documented Rest API – **in progress (documentation)**
- UI-improvements – **in progress (and repeat)**

Long term roadmap

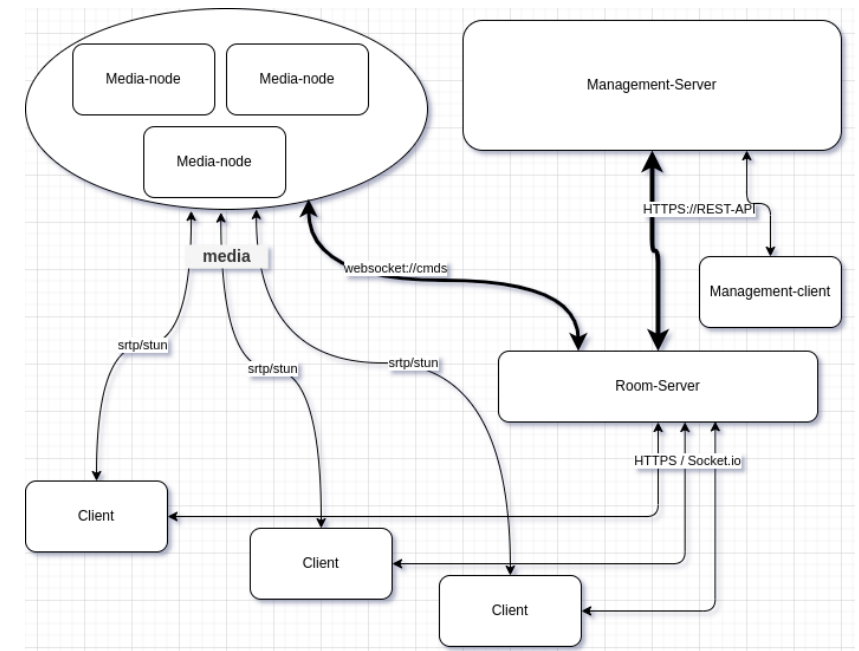
- AI-assistant (live audio transcription, meeting summary, [live] word cloud)
- More integrations (LMS, Kaltura, Panopto, ...)
- Scalability: Management-server – redis
- Support conference like use cases
(move on an interactive map and find rooms and discussion tables)
- p2p – media
- Full e2e encrypted media – for supporting browsers (chrome[ium], edge, ...)
- Plugins

Architecture



Under the hood

- SFU: mediasoup
- Serverside node.js (containerized, modular and scalable)
 - Media-nodes: SFU (mediasoup) + TURN (coTURN)
 - Management-server + REST API interface
 - Room-server (realtime controller of rooms)
 - Recorder
- Application
 - Single Page App
 - React + redux
- Github: <https://github.com/edumeet>



Thank you!

Architecture

