

Opentalk

February 3rd 2024

OpenTalk

Video Conferencing Secure and GDPR Compliant

Wolfgang Silbermayr and Stefan Sydow



- Since 2021 in Berlin but mostly remote
- Spin-Off from Heinlein Group:
Consulting and Training for Linux and Mail Operations,
Hosting and Provider of `mailbox.org`
- ~ 20 employees

Who are we?



- Wolfgang Silbermayr
 - Joined September 2022, Backend team tech expert since July 2023
 - Master's degree in Embedded Systems Design
 - Rust since 2015, still in honeymoon phase
 - <https://valug.at/> co-founder and organizer since 2001
 - Fediverse: <https://chaos.social/@silwo1> (German and English)
- Stefan Sydow
 - Joined June 2021, Media team tech expert since July 2023
 - Research and Teaching on Safe Parallel Programming
 - Master's degree in Computer Engineering on Software Defined Radio and ADS-B

OpenTalk Project



- Frontend: TypeScript
- Backend: Rust
- Free Software under EUPL-1.2
<https://gitlab.opencode.de/opentalk/>
- Documentation: <https://docs.opentalk.eu/>

User Interface



Features



- Lobby with mic and camera check
- Moderation tools
coffee break, timer, mute, poll, breakout rooms
- Screen share
- Speaker view
- Call in via SIP
- Integrations for shared editor and whiteboard
- Invitation mail with ICS calendar appointment
- (WIP) Recording and Streaming

Coffee Break



Opentalk

Coffee break! Time left:

04 : 01

Back to the conference

Shared Folder



Shared folder
 Enabled

Opentalk

Meeting ————— 2 Participants

Meeting-Link Phone Dial-In

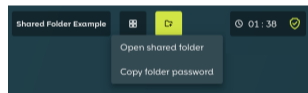
Guest-Link Password

Shared folder **Folder password - For moderator (with write permissions)**

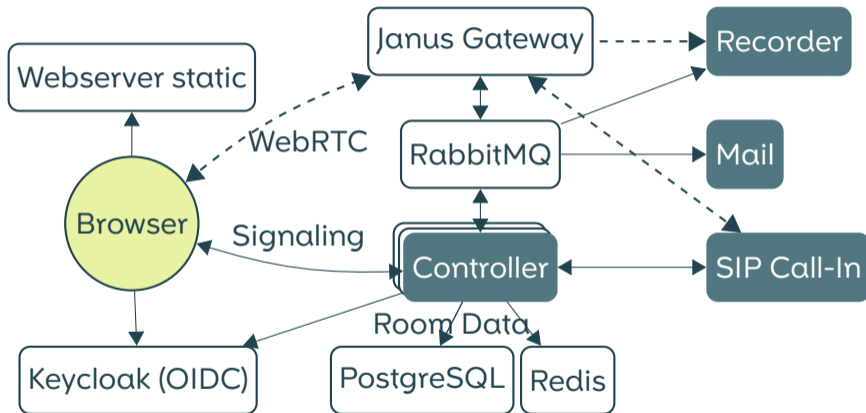
Invite participants

Open invitations Accepted Declined

← To step 1



System Overview



Rust client library example (WIP)



```
// Login process will be slightly more involved in real-world code
let url = Url::parse("https://opentalk.example.com/");
let (client, auth_token) = connect_client(url)?;

// Create an event
let event = client
    .create_event(&auth_token)
    .title("Example meeting")
    .send().await?;

// Invite a user
let email_address = EmailAddress::parse("alice@example.com");
client.invite_user_to_event(&auth_token, event.id)
    .identifier(email_address)
    .role(InviteRole::User)
    .send().await?;
```

Extending with a Media Service



Integrations



- UCS via Keycloak / OpenID Connect
- Innovaphone myApps
- mgm (A12)
- Outlook Plug-In

Q & A



Thanks for your attention!