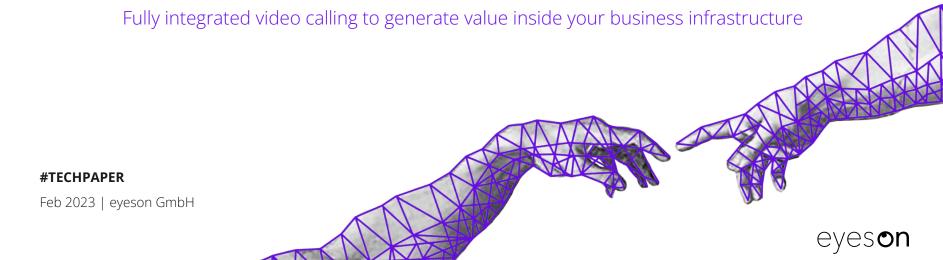
# GIVE YOUR COMMUNICATION MEANING



The problem of business interactions

# Communication happens outside of your processes



# **OVERVIEW ECHNOLOGY**



# **BASIC TECHNOLOGY**

MCU/SFU hybrid, WebRTC compliant

# API

REST (restful service)/ websocket control interface

# **VIDEO CODECS**

vp8/h264 video codec

# **AUDIO CODECS**

Opus/aac audio codec

# **RTMP**

RTMP(S) client (live-stream forwarding) & RTMP server (video injection)

# **STREAMING**

DASH/RTMP(S) live-streaming client

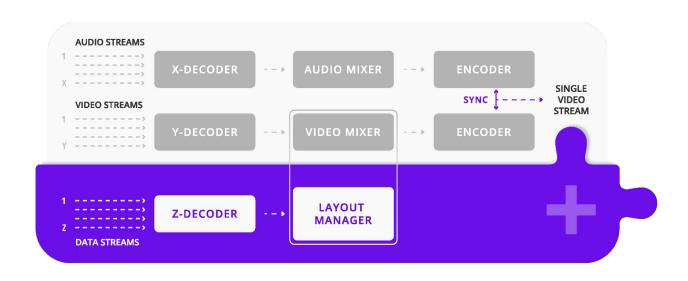
# **RECORDING**

Direct webm-recording



# ONE STREAM AS KEY to situational awareness

MCU+ transcodes video, audio & data streams into one single stream





## **DECODING/CONVERTING**

Incoming video streams from each client are decoded into a raw video format. Incoming data stream are converted into pictures or single frames.



## MIXING/LAYOUT MANAGER

Video frames from incoming video stream & media conversions are mixed into a single frame. The layout manager can position each source separately.



## **ENCODING/STREAMING**

The mixed stream is encoded in one video stream and send to all connected client, as well used for recording and live streaming services.



# TABLE OF FUNCTIONS

Only a **Multi Control Unit** (MCU) can
integrate all functions,
streams and data
necessary.

FUNCTION	OTHER MCU	EYESON MCU+
Add/Remove participant	V	✓
Hide/Show participants	<b>'</b>	<b>✓</b>
Use screencasting/presentations	<b>'</b>	<b>✓</b>
Enable broadcasting/streaming	<b>'</b>	<b>✓</b>
Synchronized view ("all see the same")	×	<b>~</b>
Set custom video layout	×	<b>✓</b>
Set custom positioning of participants	×	<b>✓</b>
Cloud-based snapshots & recording	×	<b>✓</b>
Set back-/foreground layer per video frame	×	<b>~</b>
Add live or playback video streams	×	<b>✓</b>
Inject any data on custom positions	×	<b>✓</b>



# BANDWIDTH REQUIREMENTS

The connection for up- and downstream of each client automatically adjusts to the real-time streaming capabilities of the network the client is located in.

# **UPSTREAM**

- → 40 kbps audio-only
- → 900 kbps with video
- → 1500 kbps with presentation/screen-casting

Upstream maximum (adaptive)

# **DOWNSTREAM**

- → 1280x960 @ 1500 kbps @ 25fps
- → 640x480 @ 800 kbps @ 25fps
- → 320x240 @ 400 kbps @ 25fps

Regardless of the number of participants (up to 100)

# NO EXPENSIVE DEVICES NEEDED

The server sends a single stream, which allows access to video conferences even through low-performance devices.



### **BROWSER-BASED**

Supports by all major browsers on all devices



## **BACKWARDS COMPATIBILITY**

Chrome 70+, Firefox 78+, Edge 79+, Safari 11+



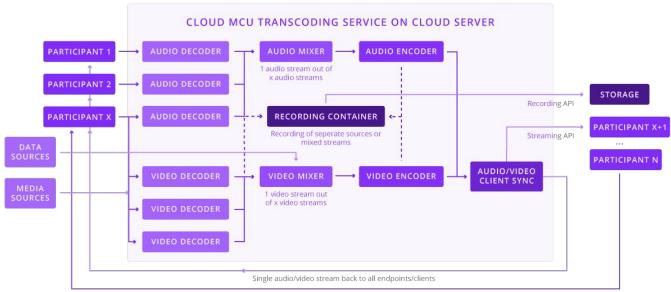
Open web standards fully supported

- → Low constant bandwidth needed from clients
- → Bitrate does not depend on the number of participants, nor on the amount of data sent and received
- → The client is directly connected to the conference server, not to the other participants. Server-side recording is available
- → Devices using H323/SIP protocols can participate in conferences
- Maximum compatibility ensured by using standards supported by a maximum number of devices
- → No expensive server is required to mix multiple media streams into one because eyeson takes care of it
- → Up to 100 participants in one meeting plus recording and live streaming



# Each cloud instance is controlling a wide range of functions for group video conferencing and data processing such as video and audio transcoding, mixing, streaming, recording, data & media injections and some more. Clients are streaming audio & video from a web browser to the cloud

instance, where all incoming streams are decoded. The decoded audio & video streams are mixed into one single video stream, which is used to send back to the clients, to store as a recording or to stream to broadcasting services.





Nintendo quit screen message

# **Everything not saved Will be lost.**



# CLOUD AGNOSTIC

Choose Your Configuration

We work with different cloud providers to guarantee compliance and best performance & scalability.





# 100% Cloud-based

Excellent call & video quality your customers will love

# **Fully Cloud Agnostic**

Stay compliant and work with any public or private cloud



# **Managed Scalability**

Leave scaling and resource management to the cloud

