

Angel Introduction: Camera and Video Mixer

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C3VOC

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General Info

General Info I

- All talks get recorded and archived forever
- Consistent quality
- No postproduction of individual signals.
- Livestream content is the same as the one recorded and published
- Less mistakes ⇒ better recordings.
- Stream observer shifts
- Difficult talks together with additional video director

General Info II

- Introduction Meeting here
- Complete overview for all new angels
- Short diff for experienced ones
- Shift distribution every day 15:00 in Meitner.
- **Short** Feedback loop and review at those meetings
- Slides available online:

<https://streaming.selfnet.de/engelschulung.pdf>



Angeltypes

Angeltypes

- Camera Angels
- Video Mixer Angels
- Stream Observing Angels
- A/V Technician
- Stage Manager

Camera Angels

- Operate the fixed cameras in the lecture halls.
- Usually, two video angels per lecture hall
- Camera angels will communicate with the Video-Mixer-Angel via intercom,
- Get instructions to shoot in certain ways.
- Maintain good camera settings

Video Mixer Angels

- Switch the video feed between different sources.
- Mixed video feed is used for both the live-stream and the recordings
- You decide which picture, respectively source, is most interesting/important at each moment.
- Work proactively with camera angels through the intercom,
- Challenging talks, with assistance from an external "image composition director" joining the intercom channel.

Stream Observing Angels

- Open for all camera and mixing angels
- Reflecting the work of colleagues from an audience perspective.
- Examine streams for issues
- Keep track of sequences appearing hard to consume or violating our rule set.
- Positive and negative remarks
- Constructive feedback
- Instantly report severe issues like "there is no signal" to the VOC Helpdesk.
- Self evaluation and not meant as external monitoring.
- Observer shifts are in the VOC office.

A/V Technician

- 2nd level support in the lecture rooms.
- is responsible for A/V Angels
- Familiar with the equipment that is used
- Able to fix (nearly) all the issues.
- is on intercom
- A/V techs meet after this meeting

Stage Manager

- is responsible for the lecture hall, especially
 - crowd control
 - time keeping
 - last minute issues
- carries the radio for emergency communication

A/V Technician & Stage Manager

- have the same shift slots (4h) together
- Stage Manager is communication gateway to heralds

Camera Hardware

Hardware Camera Controls Panasonic



Figure 1: Panasonic Cam

Cameras are in manual mode because of difficult lighting situation.

Left Ring/red Focus - control sharpness of the image.

Middle Ring/green Zoom - vary the focal length.

Right Ring/blue Iris - don't touch.

Hardware Camera Controls JVC



Figure 2: JVC Cam

Cameras are in manual mode because of difficult lighting situation.

Left Ring/red Focus - control sharpness of the image.

Middle Ring/green Zoom - vary the focal length.

Right Ring/blue Iris - don't touch.

Zoom Control Panasonic



- For smooth zoom use the zoom buttons.
- Gentle touch ⇒ slow zoom
- Top Buttons fixed speed

Figure 3: Panasonic Cam

Zoom Control JVC



- For smooth zoom use the zoom buttons.
- Gentle touch ⇒ slow zoom
- Top Buttons fixed speed

Figure 4: JVC Cam

Display Indicators Panasonic



Figure 5: Panasonic Display Indicators

Rec Indicator The recording must always run, even during the break.

Focal Indicator Use only manual focus!

Remaining Time It must have enough remaining time before talk.

Alert

Alert the A/V-Technician if something's wrong.

Display Indicators JVC



Figure 6: Panasonic Display Indicators

Rec Indicator The recording must always run, even during the break.

Focal Indicator Use only manual focus!

Alert

Alert the A/V-Technician if something's wrong.

Tripod Handle Controls



Figure 7: Tripod Handle

Beware: various models in use.

Zoom Control lever above red ring

Red Button Start/stop recording, don't touch

Other Buttons markings on the handle

Tripod



Figure 8: Tripod

- Should be level - check the water bubble.
- Variable brakes - can be adjusted to your needs.
- Tilt axis should be balanced, so that the camera doesn't tilt up or down on its own.
- Pan axis is needed all of the time. Set it so you can do smooth pans all over the stage.

Alert

Alert the A/V-Technician if something's wrong or misplaced.

SD-Card Recording

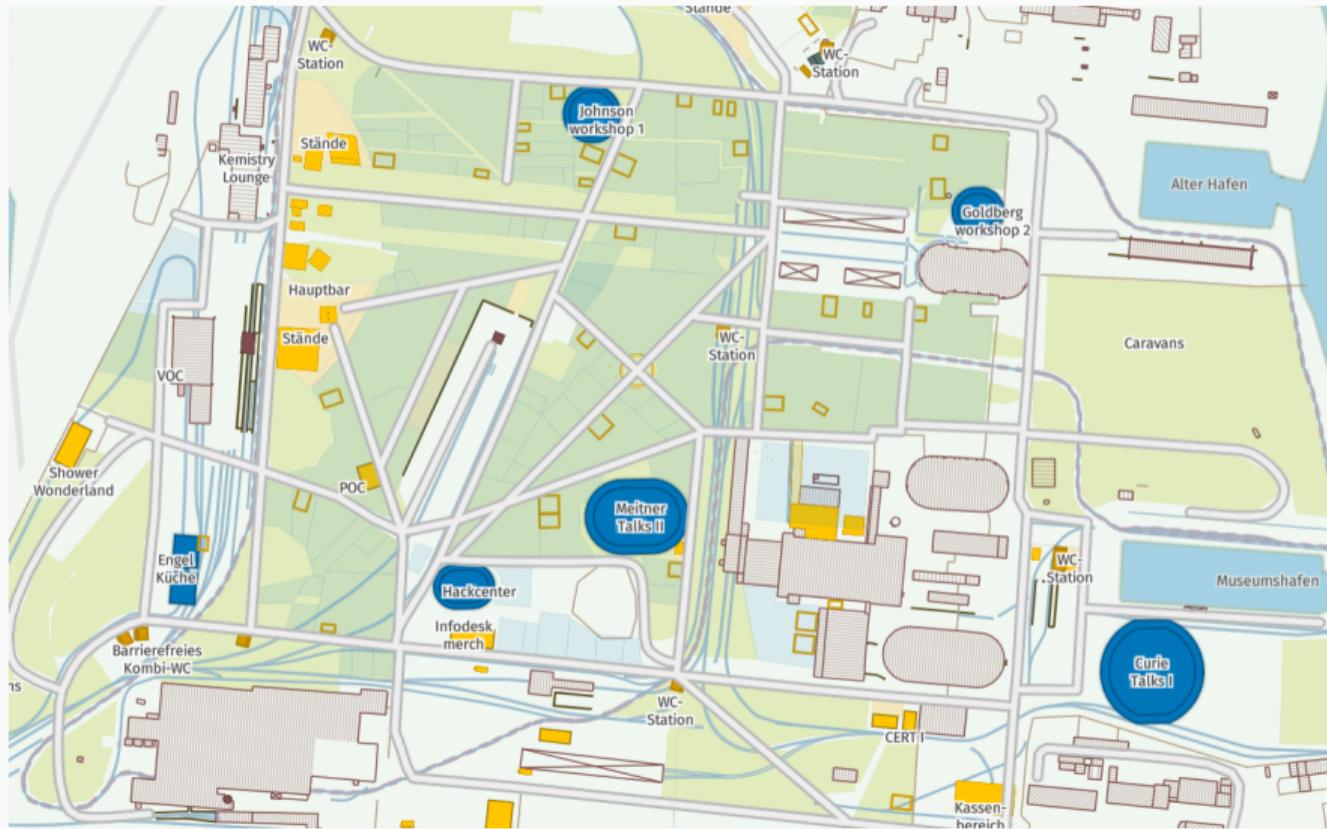
- Two SD-Cards in every Camera
- Backup Recording
- Turn on Recording before first shift in the morning -> Red Dot somewhere in the Display.
- Control Recording Time remaining.

Alert

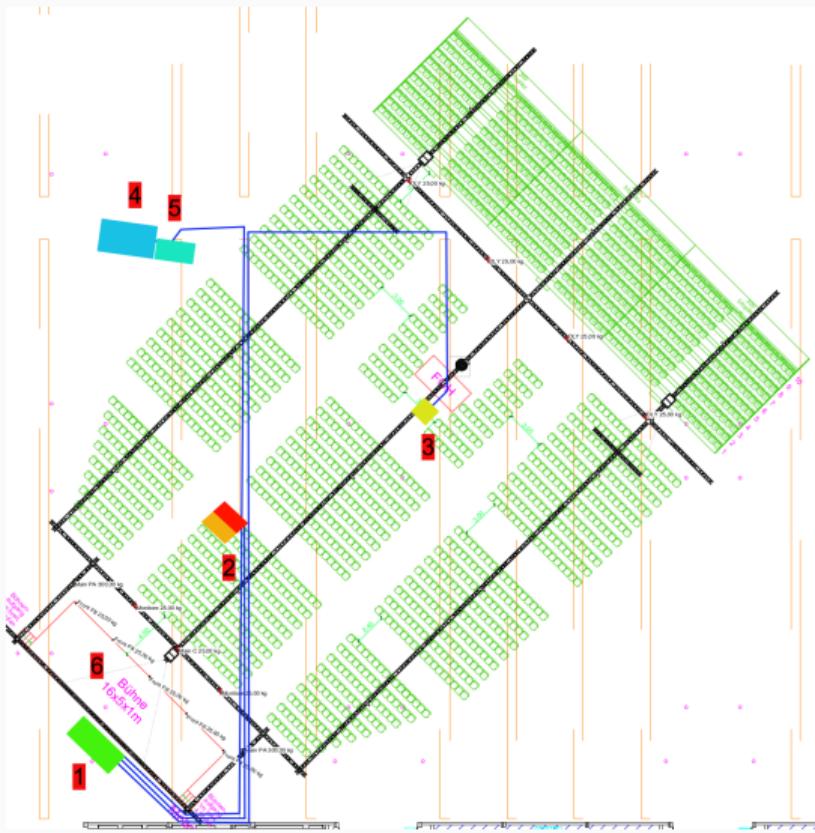
Alert the A/V-Technician if something's wrong or not running.

Camera Positions and Angles

Map of the camp grounds



Saal Metiner



Camera 1 - Closeup Camera

Content

- The Speaker is your best friend
- Keep them always in frame
- Default for all composition modes

Framing

- The upper part of their body + head + a bit of headroom.
- Stay close to his/her eyeline on the upper third line.

Alerts

- Anticipate movement, stay alert
- Leave some room where they want to move next.

Camera 1 - Closeup Camera

Example Shots I



Figure 9: Good Closeup Shot

Camera 1 - Closeup Camera

Example Shots II

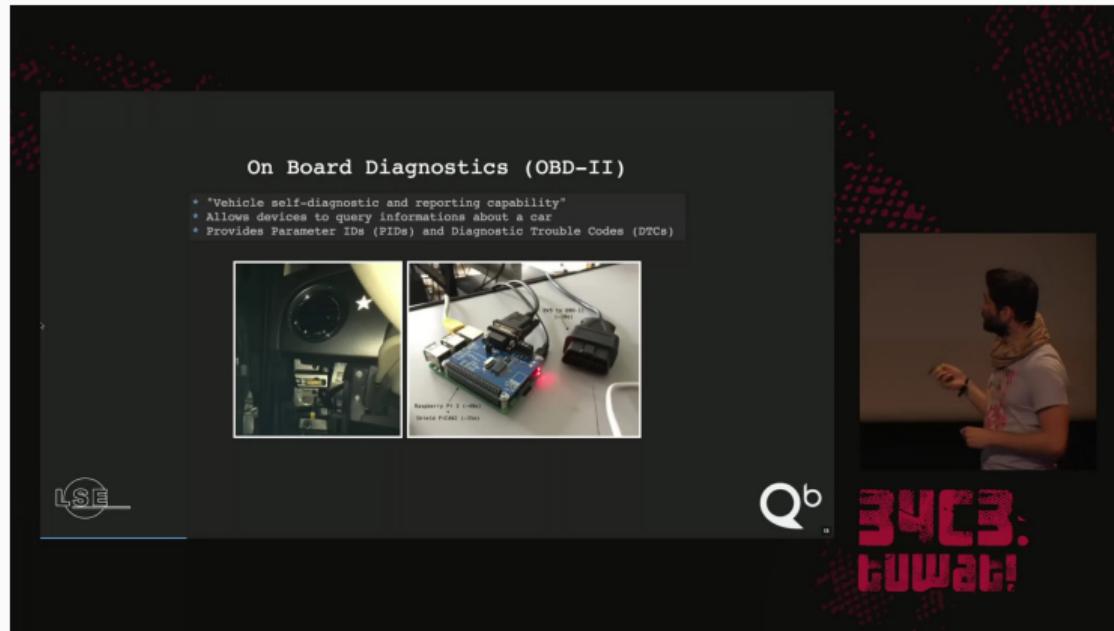


Figure 10: Good Closeup in Supersource

Camera 1 - Closeup Camera

Bad Shots I



Figure 11: Half a head - not good.

Camera 1 - Closeup Camera

Bad Shots II

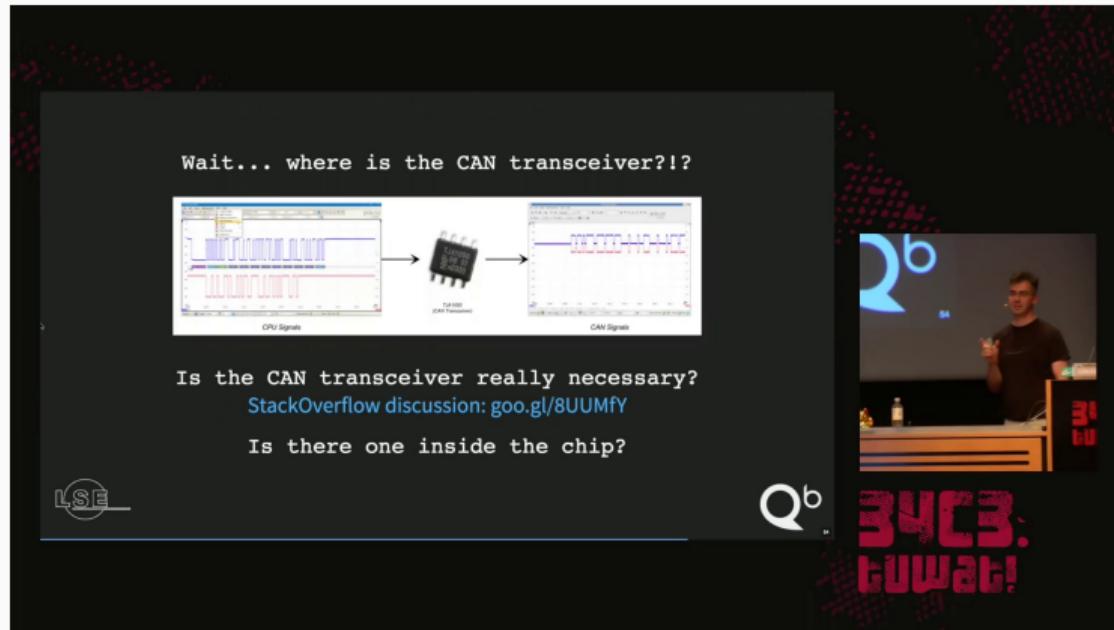


Figure 12: Too Far out for a good supersource image.

Camera 2 - Medium Camera

Content

- Context around the speaker
- If there are two or more speakers choose the other one

Framing

- Speaker from Head to Toes
- Stay close to his/her eyeline on the upper third line.

Alerts

- Anticipate movement.
- Leave some room where they want to move next.
- Fallback Camera if the Closeup Camera can't keep up.

Camera 2 - Medium Camera

Good Shots I



Figure 13: Good Context image.

Camera 2 - Medium Camera

Good Shots II



Figure 14: Two Speakers.

Camera 3 - Wide Shot

Framing

- Covers the whole stage.
- A bit of small audience for context.
- Statically set.

Alerts

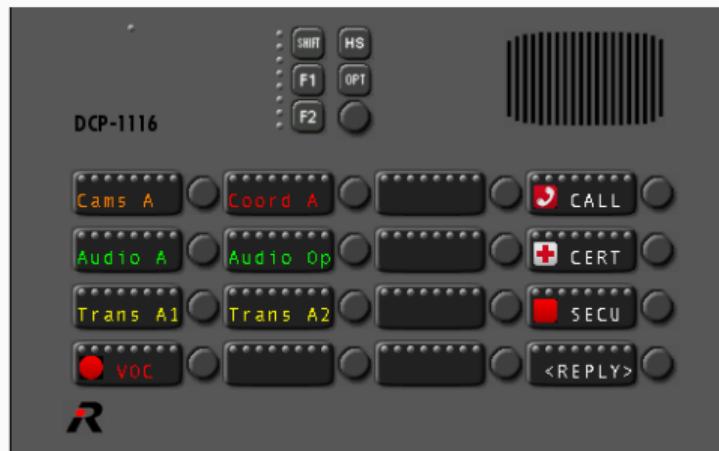
- Needs no attention.
- Fallback Camera if all else fails
- Beautifully captures standing ovations

Camera 3 - Wide Shot



Intercom

Intercom



Video Mixer Tools

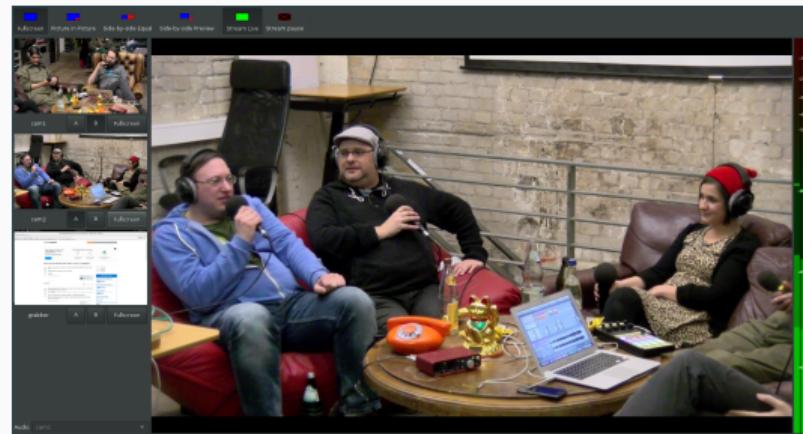


Figure 15: Voctogui

Previews Small images on the left

Program Large, middle, what everyone
on the internet sees.

Composition Top row.

Blue Select A

Red Select B

Stream Blank For breaks when nothing
should be streamed.

Software Video Mixer - Voctogui

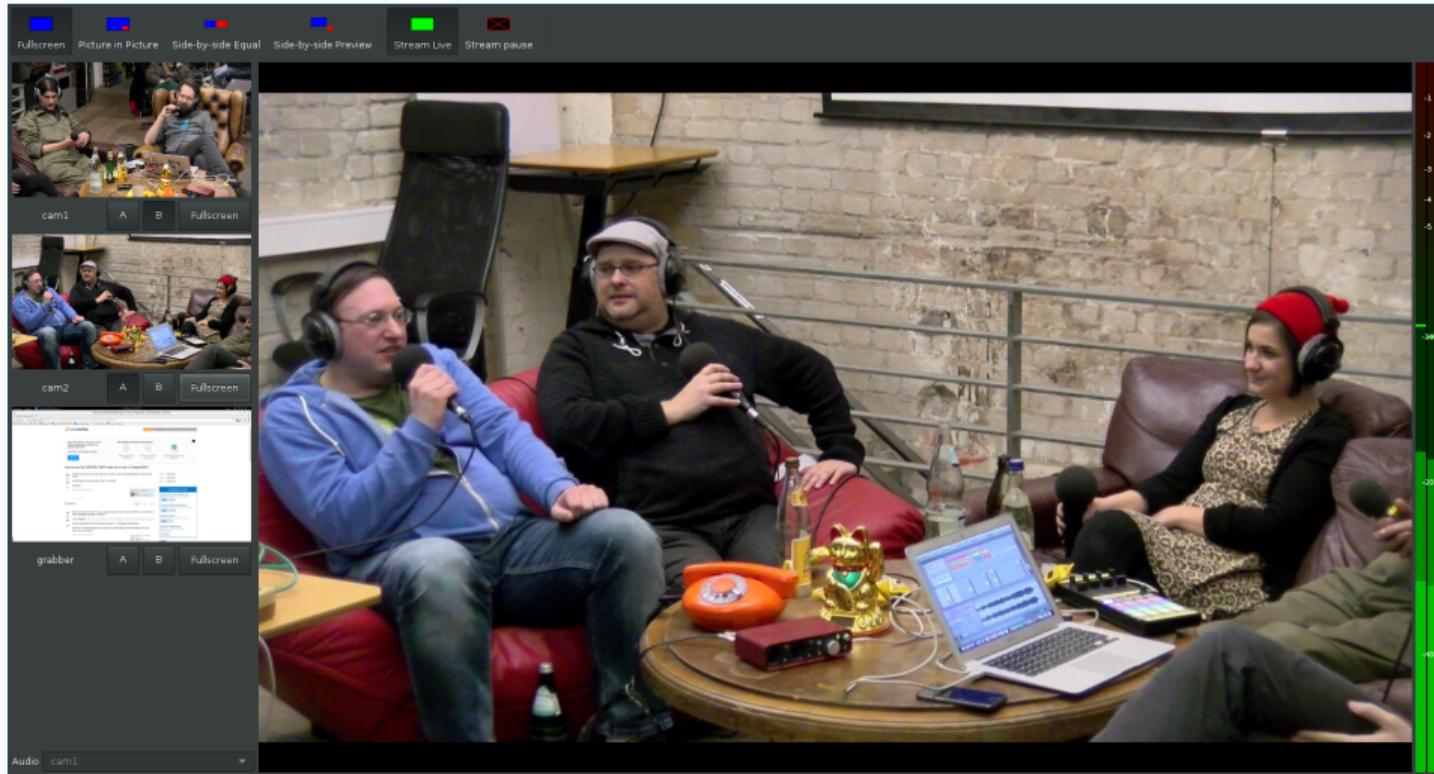


Figure 16: Voctogui

Video Mixing Guidelines

Mixing Guidelines - Hard Rules

- All you are doing is **recorded** and will be published. **Don't make mistakes.**
- The Audience is **not to be filmed**. Cut away if faces of people not on the stage appear.
- **Slides are important**
- Slides stay on till the text has been read **twice**.
- Show new slides **immediately**.

Hint

Fast-paced presentations with lots of slides are easier to handle with the supersource.

Mixing Guidelines - Softer Hints

- Start early – opening announcements of the Herald are a good start. Their introduction has to be in the recording and on stream.
- Open wide – Structure the beginning of a talk with shots that set the stage
- The slides in fullscreen – you're dealing with a very small screen. Text has to be readable
- Show gestures – medium-close-up that follows the speakers eye-line
- Don't be too cutty – Pace your videos temperately. Do not cut too often.
- Don't end too early – All questions and answers have to be recorded. The herald ends the talk, not the mixer angel.

Hints

Leave lots of room at the start and end of a talk. Cut away from the infobeamer before the Herald starts with announcements. Cut to the infobeamer only after the last applause has finished.

Mixing Guidelines - Communication

- Communication is key
- Partyline intercom in every room
- Mixer Angel requests pictures from Camera Angels and announces their next steps
- Camera angels offer good pictures
- Work together, say what you want to do and what doesn't work.

- Hands-on training with Capo after the review sessions
- Do stream-observer shifts
- Get feedback from peers
- Watch your own edits (post event)
- Do it more than once a year, check c3voc.de/wiki
- Have a habit of continuous improvement

Hands On Training

- Problem: Experience in handling mixer and cameras was gained by doing angel shifts
 - ⇒ You train in a productive system
- Solution: Hands-On-Training during the whole congress
- Possibility to train in a non-productive setting
- Stream a mock-up talk, gain experience, get feedback
- Get coached in
 - image composition
 - camera handling
 - "logical mixing"
 - communication between mixer and camera angel
- Starting tomorrow after the review meeting

Orga

Daily Meeting

- We meet in Lecture Room Meitner everyday at 3 pm
- **Mandatory** for **Video Mixing Angels**
- **Optional** for other A/V Angels
- Feedback and Shift Distribution

Agenda

- Announcements (5 mins)
- Remarkable Examples, Short Feedback Round (15 mins)
- Shift Distribution (20 mins)
- Keep in mind that we will moderate the session to fit into those timeboxes

Shift Distribution

- Video Mixer shifts will be distributed in this meeting
- Select about three talks you want do have and be excellent to your fellow angels
- Talks with special requirements might be handled by VOC

Contacts

Who to Contact?

- Technical problem **in the hall** - A/V Technician on duty
- General Questions regarding VOC - VOC Helpdesk **1600**
- Angels - Frederik DECT **7658**
- Organizational or social problems - jwacalex - DECT **5542**
- General Angel Topics - Heaven - DECT **1023**
- Unable to find right person for issue - VOC Helpdesk **1600**
- **We might need to call you. Please have your DECT (or UMTS) number in the Engelsystem! If you don't have a number yet, go to eventphone.de and get one.**

Questions?

Contact us on congress via irc, voc-lounge on hackint or come to the VOC office.⁴