

1. Jeg ville gerne at de to microhpnes hed Interviewer/interviewee og Noise source, så vi ikke tager stilling til hvordan lyden kommer ind i systemet, men det er jo et design constraint i kravene og det er en eksterne enhed til systemet.
2. Det er egentlig kun Audio control der kan håndteres remotely, så burde remote control egently pege på Audio control?

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| **Use case name** | **Noise cancellation** |
| Version | 1.0 |
| Date | 16/11-10 |
| Actors | Microphone near Interviewer/Interviewee,  Noise microphone |
| Pre-conditions | Systemet er aktivt (Interview er i gang) |
| Post-conditions | Baggrundsstøj filtreres fra og kun lyd fra interviewer and interviewe er tilbage |
| Rules | None |
| Normal flow | See below |
| Alternative flow | None |
| Comments |  |

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| Step | Description | Actors | Service | Object |
| 1 | A microphone close to the interviewer and interviewee records their voises and the background noise. | Microphone near Interviewer/  Interviewee,  Noise microphone |  |  |
| 2 | A microphone placed a little away from the interviewer and interviewee records the background noise. | Noise microphone |  |  |
| 3 | The system removes the background noise from the recording in step 1. |  |  |  |

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| **Use case name** | **Audio control** |
| Version | 1.0 |
| Date | 17/11-10 |
| Actors | Controller,  Speaker,  Controlling/Recording device |
| Pre-conditions | Systemet er aktivt (tændt) |
| Post-conditions | Lydniveau, diskant og treble justeres efter ønske |
| Rules | None |
| Normal flow | See below |
| Alternative flow | None |
| Comments | The controller may be the interviewer |

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| Step | Description | Actors | Service | Object |
| 1 | The controller adjusts the dials to change the volume, treble and/or diskant. | Controller |  |  |
| 2 | The volume level sent to the speakers and recording device is adjusted accordingly |  |  |  |

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| **Use case name** | **Audio video processing** |
| Version | 1.0 |
| Date | 17/11-10 |
| Actors | Speaker,  Controlling/Recording device,  Display,  Camera |
| Pre-conditions | Systemet er aktivt (tændt) |
| Post-conditions | Lydniveau, diskant og treble justeres efter ønske |
| Rules | A form of access control should prevent unauthorized users from gaining access to the sent recordings. |
| Normal flow | See below |
| Alternative flow | 1. Only audio is sent to Controlling/Recording device if no Camera is present. 2. Display shows blank screen is no Camera is present. 3. Video feed not sent to display if display not present. |
| Comments |  |

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| Step | Description | Actors | Service | Object |
| 1 | The system combines the data received from the camera and the noise cancellation filter to an audio/video feed and send it to the recording/controlling device. | Controlling/  Recording device,  Camera |  |  |
| 2 | The audio from the audio/video feed is sent to the speaker. | Speaker |  |  |
| 3 | The video from the audio/video feed is sent to the display | Display |  |  |

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| **Use case name** | **Remote control** |
| Version | 1.0 |
| Date | 17/11-10 |
| Actors | Controlling/Recording device, |
| Pre-conditions | Systemet er aktivt (tændt) |
| Post-conditions | Lydniveau, diskant og treble justeres efter ønske |
| Rules | A form of access control should prevent unauthorized users from gaining access to controlling the system. |
| Normal flow | See below |
| Alternative flow | 1. Remote control failure. The volume, treble or diskant is not adjusted. |
| Comments |  |

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| Step | Description | Actors | Service | Object |
| 1 | The Controlling/Recording device adjusts the settings for volume, treble and/or diskant. | Controller |  |  |
| 2 | The volume level sent to the speakers and recording device is adjusted accordingly |  |  |  |

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| **Use case name** | **Firmware update** |
| Version | 1.0 |
| Date | 17/11-10 |
| Actors | Controlling/Recording device, |
| Pre-conditions | Systemet er aktivt (tændt) |
| Post-conditions | Systemet eksekverer med den nye firmware |
| Rules | A form of access control should prevent unauthorized users from uploading new firmware. |
| Normal flow | See below |
| Alternative flow | 1. Firmware upload failure. The “old” firmware continues to run. |
| Comments | There must be room for two complete firmwares in the flash to achieve this. |

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| Step | Description | Actors | Service | Object |
| 1 | The Controlling/Recording device initiates firmware upload. | Controlling/Recording device |  |  |
| 2 | The new firmware is validated and executed. |  |  |  |