Meeting 1 – 08.05.2022

- Introduction of the group members.
- Discussion and approval of the team contract.
- Distribution of tasks for the first assessment.
- Consent that a first draft should be available by May 15, 2022 → 8:30 PM, BST

Meeting 2 – 16.05.2022

- Presentation of server side and client side devices vulnerabilities of smart homes
- Presentation of the mitigation measures found
- Discussion of the further course:
- Individual units of the assessment must be put together.
- Further investigations will be made
- Better references need to be found as some of these are not scientific.
- Another meeting is scheduled for May 20, 2022 → 8:30 PM, BST

Meeting 3 – 20.05.2022

- Discussion of the progress of the Design Document.
- Planning of further progress to be done.
  - Document pieces needs to be put together in one file.
  - The final AD trees need to be drawn and numbers calculated.
  - List of mitigation need to be adopted.
- Next meeting: May 22, 2022 → 8:30 PM, BST

Meeting 4 – 22.05.2022

- Presentation of the final Design Document.
- Discussion of structure and content.
- Clarifying of task to be done.
- Fixing the references.
- Implementing last pieces.
- Proof reading.
- Next meeting: May 23, 2022 → 8:30 PM, BST

Meeting 5 – 23.05.2022

- Agreement on the submission of the first assessment.
- Brief discussion of the requirements of the second assessment.

- Arrangement of a new meeting to plan the second assessment as not enough preparation was made by some of the team members.
- Next meeting: May 26, 2022 → 8:30 PM, BST

Meeting 6 – 26.05.2022

- Discussion of the tasks of the second assessment
- Distribution of tasks
- Discussion on how to approach the coding project
- It is noted that MQTT could be used to make the work easier.
- It is noted that the tutor mentioned to choose the main threats/vulnerabilities to decide a focus for the project.
- Next meeting: May 29, 2022 → 8:30 PM, BST

Meeting 7 – 29.05.2022

- Presentation of the progress
- Discussion of the features and used references
- Agreement that everyone helps with the code testing
- Next meeting: June 1, 2022 → 7:30 PM, BST

Meeting 8 – 1.06.2022

- General discussion
- Discussion of the program testing
- Discussion of the following tasks:
- Local storage
- Insecure open ports
- Insecure IDS & IPS
- Certificates for weak & hardcoded pw
- Q0S / Q2S: Increases delay but decreases package loss
- Pro & Con of latency, power consumtion and package drop
- Next meeting (with tutor): June 7, 2022 → 5 PM, BST

Meeting 9 – 07.06.2022

- Presentation of the Coding Project
- Thoughts and planning of the project
- Presentation of the Code
- Functions: Smart lamps, Temp. & heating sensors, Oximeter (Smart Watch)
- Port 8884 TLS for encryption
- Disabling unsecure ports on broker side

- Certification & device sensors
- Payload encryption → fernet
- Data creation through random data generator
- Expression over MQTT Explorer, presentation of the functions
- Presentation of the Readme file
- Feedback: Overall a good attempt, maybe trying to simulate a separated broker

Meeting 10 – 11.06.2022

- Discussion of the final coding project
- Project is complete
- Only test results needs to be implemented
- Joint preparation of the test results and proofreading
- Michael Geiger will hand in the assessment on Monday 13.06.2022