

# Weekly report: Week 8 of dissertation for Uninett AS on authentication in IoT

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## Activities

### Monday February 18

The prestudy report was completed and sent to stakeholders. After completion, we continued to see if we could get a laptop to act as an access point (unsuccessfully still). Work began on the design report.

### Tuesday February 19

We designed an architecture that includes an “ad hoc adapter” and an “authentication module.” We are aiming for a highly modular and customizable solution that is platform independent (including independence from access point controller software and other factors in the environment). This means that we cannot assume that authentication will be done against Feide (though it will in our case), and we cannot assume that the process of generating a new PSK is the same in every system. The “ad hoc (meaning ‘for this’) adapter” performs the custom logic required to generate a new PSK, and the “authentication module” performs the custom logic required to authenticate a user against the chosen solution (Feide in our case). The rest is the same for all systems.

### Wednesday February 20

We attended a meeting with Jørn and, briefly, Stein. In the meeting we got some comments on the prestudy report and changed it accordingly. The changes included technicalities and clarifications, as well as a reprioritization of goals. The amendment is described at the end of the prestudy report.

With Jørn’s help, we managed to diagnose and solve the problems with the access point-configured laptop. This is becoming less relevant now that we know we will receive access points from Aerohive.

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## Remarks

We were unable to work Thursday to Sunday. We are still confident that we will complete the design report on time. We have a general idea of all designs in mind.