

## **2DV703 Mobile and Wireless Data Security**

### **Assignment #5**

#### **A. Theoretical about Mobile Security**

As preparation for the practical work, read the 10 vulnerabilities that the GAO report states exists within all mobile platforms (p.17+)

To prepare for the lectures 16 and 20 December, read chapters 12-13 and 14-15 respectively.

#### **B. Practical part (completed at latest Friday 7 January)**

Write a report about the tasks for part B and submit to MyMoodle.

#### **MDM**

Install an MDM service (one possibility is maas360, but you may choose whatever you feel will be working well) and see which of these 10 vulnerabilities (GAO report) are possible to prevent or advert using the software. Which might require other means? Also specify requirements for the rules depending on version and OS of different mobile devices.

You should also install the client software on several different mobile devices (either your own or some in the lab). You should prove that you are able to do some basic things with your device: e.g. password change, lock it, locate it, push out updates.

#### **USB Encryption**

Study the USB device given to your group that support hardware encryption (see list in the course site). Your company is looking into buying one of these devices. Try to configure them to use your own PIN/password. Evaluate the device based on the security that it provides. Could it be suitable to transport sensitive information?

Once you have investigated your device, collect results from the other groups' investigations and compare the different solutions. Which one would you propose?

Now look into different software encryption tools that can be used to encrypt removable media. Are there any alternatives that you think would be suitable to regular users? What security do they provide? What is the drawback on e.g. usability, read/write speed and storage capacity?

E.g. Rohos Mini Drive, SecurStick, Bitlocker to Go, diskcryptor

#### **WiKi Documentation in MyMoodle**

Make sure all other tasks in previous assignments are in place and look over your documentation.