Exercise 12.1 (Primary biometric identifier). (4 points)

In the lecture we discussed “Why ICAO selected the face as primary biometric identifier specified to e-passports”. Consider the voice of a person as biometric identifier and comment whether the arguments for the ICAO’s decision still hold or not.

Exercise 12.2 (Restricted Identification). (10 points)

(i) Show that Passive Authentication provides a unique identifier to the terminal.

(ii) Show that Chip Authentication provides a unique identifier to the terminal.

(iii) Without this authentication the terminal cannot trust the chip. How does Restricted Identification work? In other words: how is guaranteed that the remote terminal does only get the sector identifier and no unique identifier whatsoever.