

## **PCAP Quiz #1 Questionare**

### **1. 802.1X/EAP Authentications**

Since we have a authentications server (radius-server) in our network the clients will use 802.1X/EAP authentication. Its only one user account configured on the Radius server, so all clients will use the same username and password. All three clients will associate to one of the access points and some of them will roam to another during the capture

#### Question 1.1

Which type of 802.1X/EAP-authentication method is used in this network?

#### Question 1.2

In several 802.1X/EAP authentication methods the supplicant sends a “bogus” outer identity. What is the “bogus” outer identity for these clients? Could that outer identity also be the real username?

#### Question 1.3

During the 802.1X/EAP authentication the supplicant sends its Cipher Suite capabilities. How many Cipher Suites are the Samsung A5 capable of?

#### Question 1.4

In response to the supplicant Chipher Suite capabilities, the Authentication server decide to use one of the Cipher suite. Which one is used between the Samsung A5 and its AP?

#### Question 1.5

Does the Samsung A5 and the iPad uses the same chipher suite?

### **2. Fast roaming**

The network is configured with both 803.11i (WPA) and 803.11r (BSS FT) roaming methods

#### Question 2.1

It is three different supplicants that connects to the network. Which ones supports 803.11r (BSS FT) and which ones supports only 802.11i (WPA)

#### Question 2.2

During the Samsung A5s first association to one of the access point there are some missing packets in the packet capture. Is that a problem? Do you think the A5 did connect? Why are there some missing packets?

#### Question 2.3

During the packet capture the Samsung A5 first did a full 802.1X/EAP authentication to the first AP, then it roam to another AP without any EAPOL-packets (packet 3730-3737). What happens here?

#### Question 2.4

14 seconds after the previous roam, the Samsung A5 associate the same access point. This time with full 802.1X/EAP authentication (start at packet 4340). Why did it happens?

#### Question 2.5

Does this network support fast transition over the air or over the DS?