

7.3 Question 3

7.3.A The Wi-Fi NIC of two laptops happened to have the same MAC address. Assume that they have both entered the same Extended Service Set.

Which of the IEEE 802.11 services are affected the most by this issue and why?

As long as both devices use the same AP there wouldn't be a problem. However, if the laptops would change their BSS then association and reassociation problems can occur.

Would this conflict always be a problem (even if multiple Access Points may be involved)?

Yes, this problem would still arise even with the use of multiple APs, as only one MAC address should be associated with an AP.