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LAB Discussion Forum

[Lab5]BLE hopping algorithm hint

Mac "lists all the visible APs individually" command not working in the terminal

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[Lab5]BLE hopping algorithm hint
by Jiawei Hu

Hi All,

When you ... You might observe something like below:

In here, the hopping increment is 5 and bad channels are **0-9**. 1st event the algorithm choose **channel 15**, 2nd event it choose **channel 10** and then it choose **channel 15** again in 3rd event. Why the algorithm choose in this way?

Answer:

In the first event, the unmapped channel is (0+5) mod 37 = 5 which is a **bad channel**, therefore it uses remapping algorithm to remap to good **channel 15**. You need to understand how channel remapping algorithm works here, which is also required in Lab5 task2.

In the second event, the next unmapped channel is (5+5) mod 37 = **10** which is a **good channel**, so it can be selected.

Similarly, in the third event, the next unmapped channel is (10+5) mod 37 = **15** which is a **good channel**.

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Re: [Lab5]BLE hopping algorithm hint
by Krishna Srivastava - Tuesday, 28 June 2022, 10:58 PM

Thank you Gary, the above makes way more sense now,

Cheers,
Krishna

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Re: [Lab5]BLE hopping algorithm hint
by Jiawei Hu - Wednesday, 29 June 2022, 9:58 AM

No worry, Krishna.
You will need to look at task 2 (when it is a bad channel) again. Sorry about the confusion from yesterday.

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