

Wi-Fi Site Survey Tool

Revision Date	Revision	Description	Author
April/2018	V1.0	Initial release	ICG AE Jacky.Lin

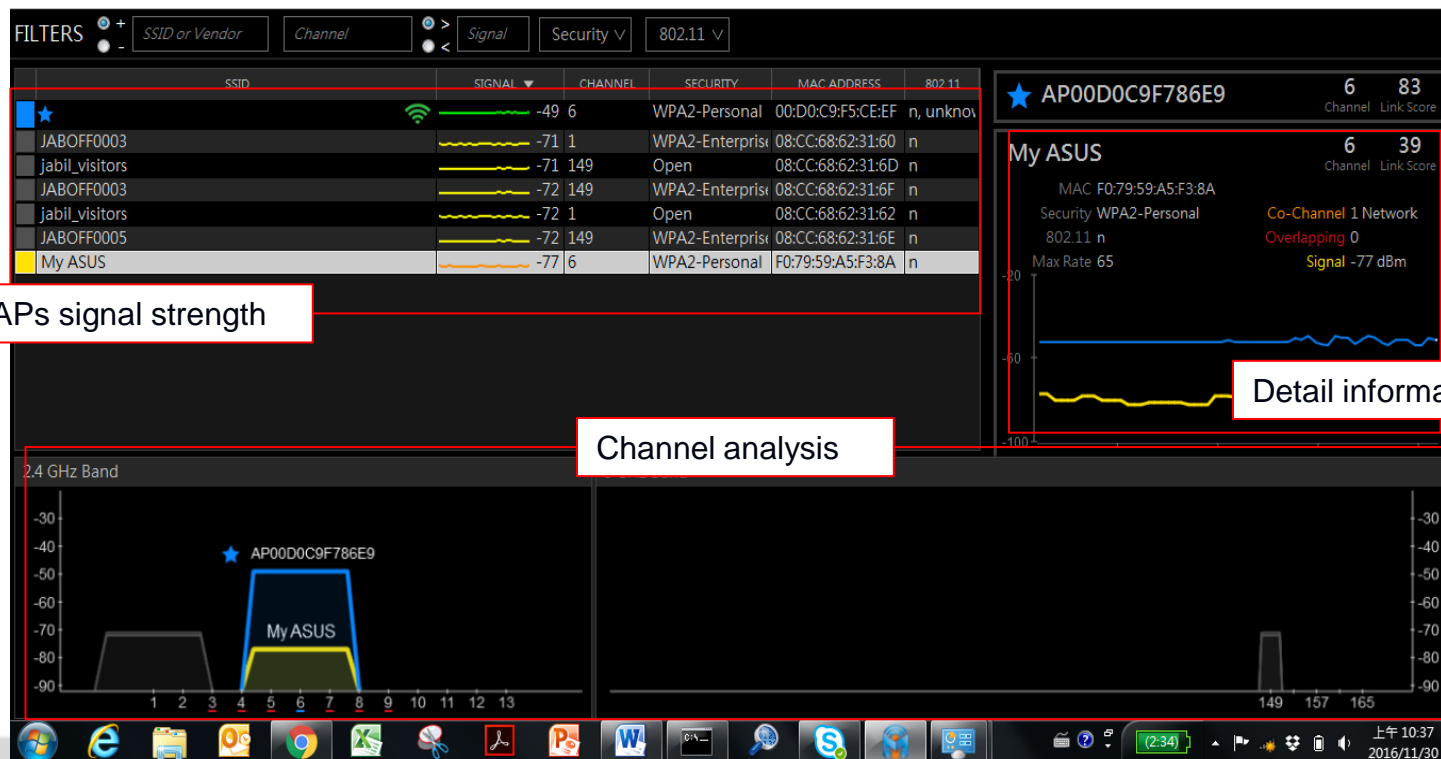
Abstract

- ❖ **This SOP introduces how to use the Third party tool (InSIDDer, Goping, PingInforView) for Wi-Fi site survey.**
- ❖ **Related products:**
EKI-633x, EKI-136x, EKI-136x-MB, other Wi-Fi product
- ❖ **Requirement: Notebook with wireless NIC card (better support dual band)**



InSIDDer (1/2)

- **Wireless environment site survey**
 - AP signal strength/ Channel analysis
- **Step 1 :Installed InSIDDer software on your laptop**
 - You may download the free-trial InSIDDer from below website.
 - <http://www.techspot.com/downloads/5936-inssider.html>

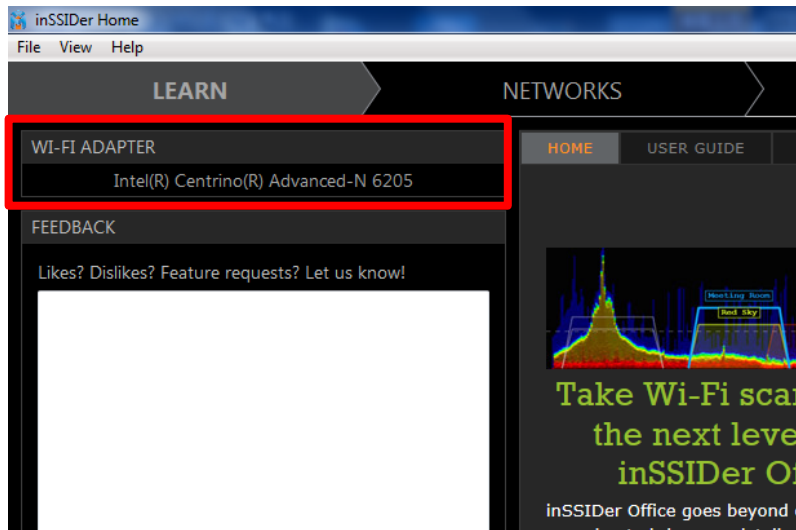


InSIDDer (2/2)

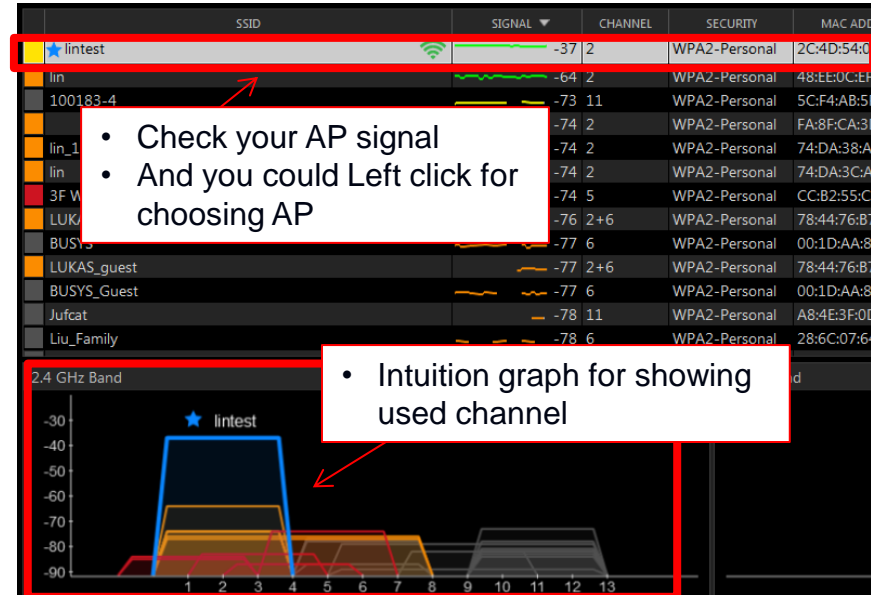
- **Step 2: Run the program and choose the NIC**

Note: Some NIC on legacy notebook only support 2.4GHz.

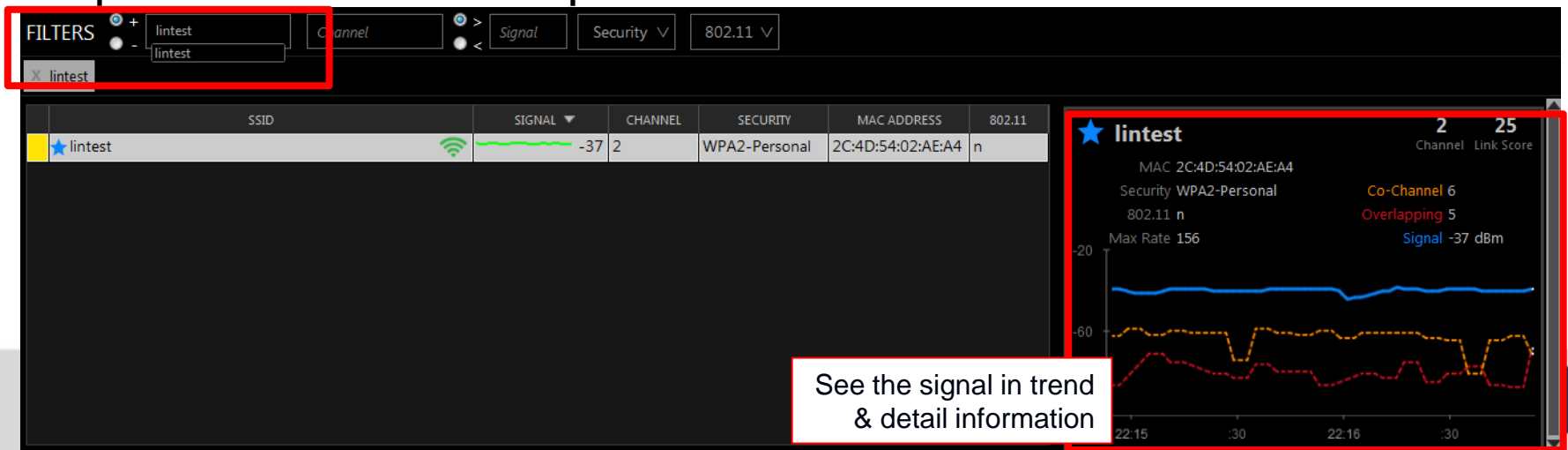
Please check your NIC first, If you want to analyze 5GHz channel,



- **Step 3: check your AP signal and used channel**

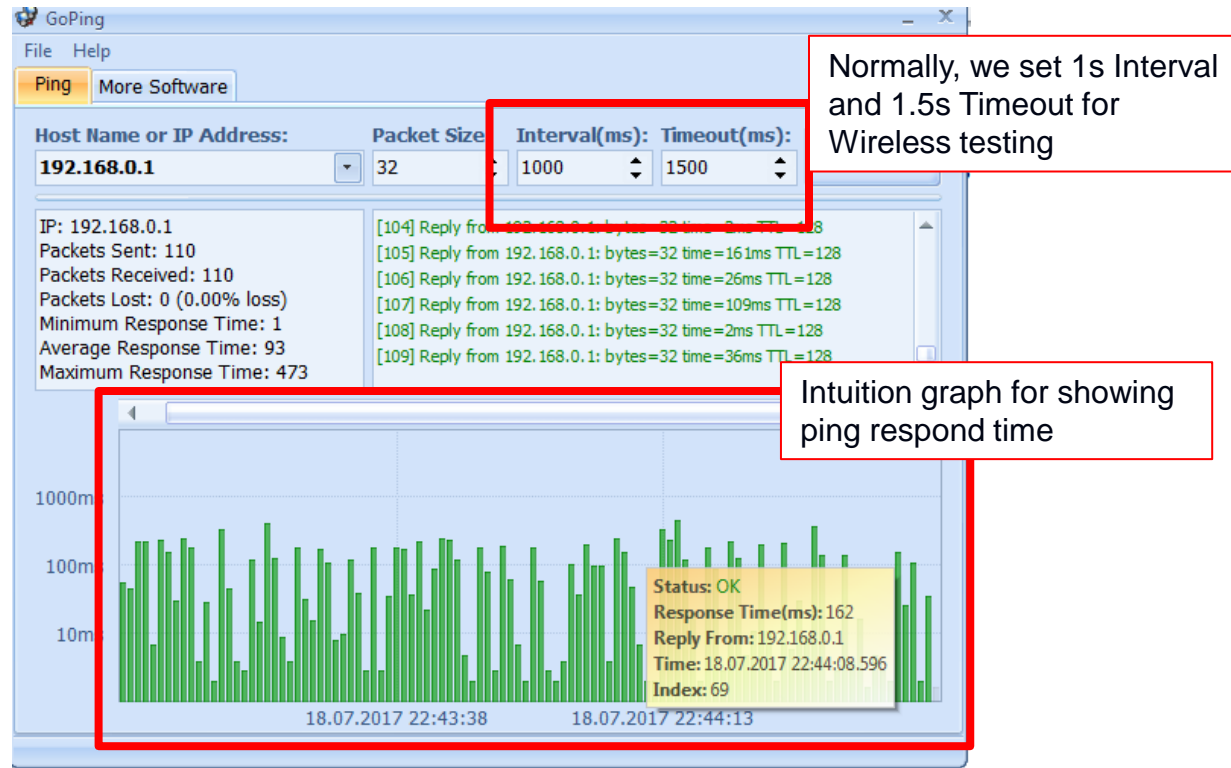


- **Step 4: use filter for advanced inspection**



Goping Tool

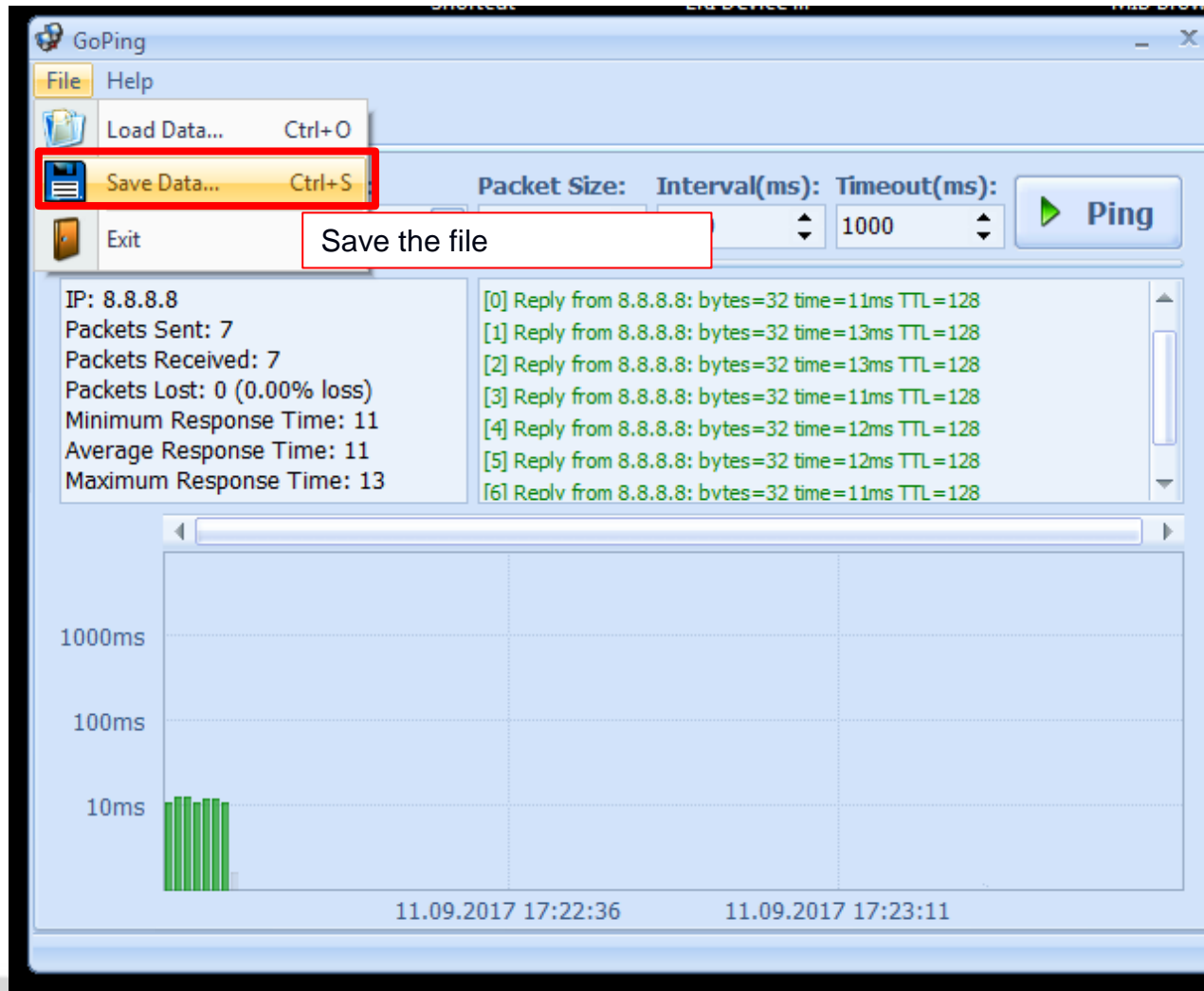
- Check the ping respond time & save the ping result
 - Step 1 : download from the website
 - <http://www.snapfiles.com/get/goping.html>
 - Step 2: run the program and check the ping respond time



- Use the NB to keep pinging AP for check the wireless condition.
 - We'd suggest the average ping respond time lower than **200ms** for stable communication.

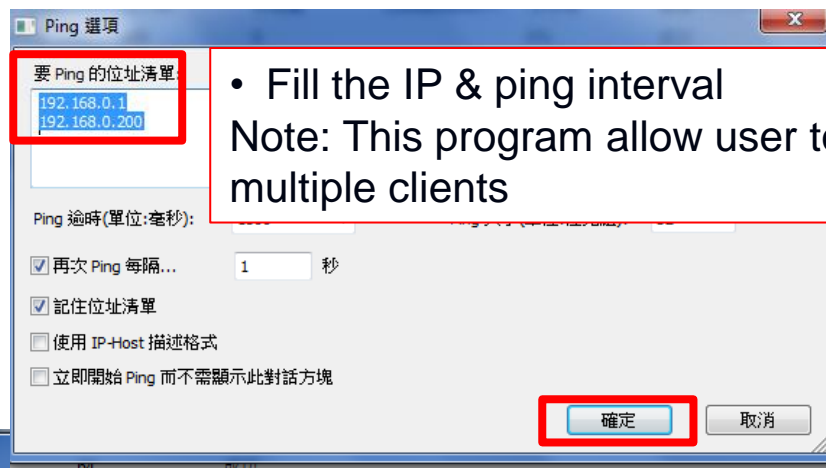
Goping Tool

- Save the result as gpd file



PingforView

- Use PingforView tool to test Ping loss Rate
- Step 1 : download from the website
 - https://www.nirsoft.net/utls/multiple_ping_tool.html
- Step 2: Run the program and ping Wireless client devices
 - We suggest the customer set 1s as time interval and keep pinging more than 10 minutes to observe the package loss probability



• Ping lost rate

主機名稱 /	IP 位址	回覆 IP 位址	成功數	失敗數	Consecutive F...	% 失敗	最後一次 Ping 狀態	最後一次 Ping ...	最後一次 Ping ...	平均 Ping 時間
dlinkrouter	192.168.0.1	192.168.0.1	417	0		0%	成功	19	64	68
192.168.0.200	192.168.0.200	192.168.0.200	416	1		0.24%	成功	19	64	64



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