Wi-Fi Site Survey Tool

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

Enabling an Intelligent Planet

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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 4: use filter for advanced inspection

 Step 3:check yout AP signal and used channel

SSID	SIGNAL 🔻	CHANNEL	SECURITY	MAC ADD
★ lintest 🛜	-3	7 2	WPA2-Personal	2C:4D:54:0
in 7	-6-	4 2	WPA2-Personal	48:EE:0C:EF
100183-4		3 11	WPA2-Personal	5C:F4:AB:5F
	-7-	4 2	WPA2-Personal	FA:8F:CA:3E
	-7-	4 2	WPA2-Personal	74:DA:38:A
• And you could Left clic	ck for -7	42	WPA2-Personal	74:DA:3C:A
	-74	4 5	WPA2-Personal	CC:B2:55:C/
	-7	5 2+6	WPA2-Personal	78:44:76:B7
BUSY	-7	7 6	WPA2-Personal	00:1D:AA:8
LUKAS_guest		7 2+6	WPA2-Personal	78:44:76:B7
BUSYS_Guest		7 6	WPA2-Personal	00:1D:AA:84
Jufcat	7	8 11	WPA2-Personal	A8:4E:3F:0D
Liu_Family	7	86	WPA2-Personal	28:6C:07:64
2.4 GHz Band • Intuit -30 ★ lintest used	ion grapł channel	n for sh	lowing	ıd
	9 10 11 1	2 13		



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/utils/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

		II Ping 選項	1000							
		 Fill the IP & ping interval 192.168.0.1 192.168.0.200 Note: This program allow user to ping multiple clients 								
		 ✓ 再次 Ping 每隔… ✓ 記住位址清單 ● 使用 IP-Host 描述 	1	秒						
3 PingInfoView	-	 立即開始 Ping 而不 	「需顯示此對話方」	塊	िल	淀	取消			<u> </u>
檔案(F) 編輯(E) 檢視(V)			HALANJ							
🔲 🕨 🥯 🔛 🖻	' 🔊 📲									
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 批	犬態 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
					• Pi	ng lost	t rate			



