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```
# ATWM=3[with_len]
#ATWM match ATWM, search cnt 1
[ATWM1: _AT_WLAN_PROMISC_

Switch to channel(1)
DA: c4 6e 1f 58 42 bc, SA: 20 e0 4c 87 00 00, len=6
DA: 01 00 0c cc cc d, SA: 24 e9 b3 23 f0 92, len=56
DA: ff ff ff ff ff, SA: 00 1f 3b 81 48 89, len=47

Switch to channel(2)
DA: ff ff ff ff ff ff, SA: 00 1f 3b 81 48 89, len=154

Switch to channel(3)

Switch to channel(4)
DA: 01 00 0c cc cc cd, SA: 24 e9 b3 23 f0 92, len=56

Switch to channel(5)
DA: 34 bd c8 ac 14 20, SA: d0 22 be 22 00 a9, len=6
DA: 34 bd c8 ac 14 20, SA: d0 22 be 22 00 a9, len=6
```

```
# ATVM=3
#M match ATVM, search cnt 1
[ATVM1: _AT_WLAN_PROMISC_

Switch to channel(1)
DA: 01 00 5e 00 00 fb, SA: c4 6e 1f 58 42 bc, len=0
DA: 01 00 5e 00 00 fb, SA: c4 e9 b3 23 f0 92, len=0
DA: 01 00 5e 00 00 fb, SA: c4 6e 1f 58 42 bc, len=0
DA: 01 00 5e 00 00 fb, SA: c4 6e 1f 58 42 bc, len=0
DA: 01 00 5e 00 00 fb, SA: c4 6e 1f 58 42 bc, len=0
DA: ff ff ff ff ff, SA: ac cf 5c 61 eb 27, len=0
DA: 01 00 0c cc cc cd, SA: 24 e9 b3 23 f0 92, len=0

Switch to channel(2)

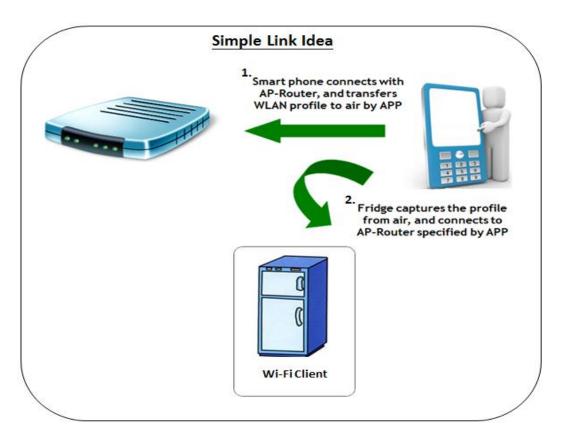
Switch to channel(3)
DA: 01 00 0c cc cc cd, SA: 24 e9 b3 23 f0 92, len=0
DA: 01 00 0c cc cc cd, SA: 24 e9 b3 23 f0 92, len=0

Switch to channel(4)
DA: 20 10 7a 7c bb 34, SA: 5c f3 fc 3e a9 b8, len=0
```

### 4 Solution 3: Realtek Simple Config



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# 4.1 Simple Config Usage Install Android APP



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## **Simple Config APK description**

## **Config Progress**

device without PIN	configures configures device with PIN code		
			one



#### **Configuration without PIN code**

entered via "ATWQ" command

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#### **Configuration with PIN Code**

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## **4.2 Simple Config Testing**





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```
# ATWQ=12345678
# Command ATWQ
ATWQ match ATWQ, search cnt 1
[ATWQ]: _AT_WLAN_SIMPLE_CONFIG_
ioctl[SIOCGIWESSID] ssid = NULL, not connected
ioctl[SIOCGIWESSID] ssid = NULL, not connected
ioctl[SIOCGIWESSID] ssid = NULL, not connected
====== Connection Information ======
wifi->security_type = RTW_SECURITY_OPEN
wifi.password =
wifi.password_len = 0
wifi.ssid = rtk
wifi.ssid_len = 3
===== start to connect target AP =====
RTL8195A[Driver]: set ssid [rtk]
RTL8195A[Driver]: start auth
RTL8195A[Driver]: auth success, start assoc
RTL8195A[Driver]: association success(res=1)
IP address : 192.168.1.100
WIFI wlan0 Setting:
                                              -------
    MODE => STATION
SSID => rtk
CHANNEL => 1
SECURITY => OPEN
PASSWORD =>
[MEM] After do cmd, available heap 52936
# ATWI=192.168.1.254
# Command ATWI
# Command ATWI
ATWI match ATWI, search cnt 1
[ATWI I: _AT_WLAN_PING_TEST_
[ATWI]Target address: 192.168.1.254
[ATWI]Repeat Count: 5
 [ping_test] PING 192.168.1.254 120(148) bytes of data
[ping_test] 128 bytes from 192.168.1.254: icmp_seq=1 time=2 ms [ping_test] 128 bytes from 192.168.1.254: icmp_seq=2 time=2 ms [ping_test] 128 bytes from 192.168.1.254: icmp_seq=3 time=2 ms [ping_test] 128 bytes from 192.168.1.254: icmp_seq=4 time=3 ms [ping_test] 128 bytes from 192.168.1.254: icmp_seq=4 time=3 ms [MEM] After do cmd, available heap 52936
```

#### 4.3 Simple Config Resources



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## 5 Solution 3: Realtek WPS Config

### **5.1 WPS Config Usage**

#### **Config Progress**

configures device

with PBC	configures device with PIN		
	two		

device pin code 75798024

**Configuration with PBC** 





## **Configuration with PIN**

# 5.2 WPS Config Testing

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# ATWW=pin # Command AIWW ATWW match ATWW, search cnt 2 [ATWW]: \_AT\_WLAN\_WPS\_ ioctlISIOCGIWESSID] ssid = NULL, not connected [pin]device pin code = 75798024 [pin]find out first triger wps AP = rtk Start WPS PIN [pin]target ssid = rtk
RTL8195A[Driver]: set ssid [rtk]
RTL8195A[Driver]: start auth
RTL8195A[Driver]: auth success, start assoc
RTL8195A[Driver]: aush success, start assoc
RTL8195A[Driver]: wPS: Building Message M1
RTL8195A[Driver]: Receive WPS\_M2
RTL8195A[Driver]: Receive WPS\_M4
RTL8195A[Driver]: Receive WPS\_M4
RTL8195A[Driver]: WPS: Building Message M5
RTL8195A[Driver]: Receive WPS\_M6
RTL8195A[Driver]: Receive WPS\_M6
RTL8195A[Driver]: Receive WPS\_M6
RTL8195A[Driver]: Receive WPS\_M8
RTL8195A[Driver]: WPS: Building Message M7
RTL8195A[Driver]: WPS: Received M8
RTL8195A[Driver]: WPS: Building Message WSC\_Done [pin]get credential from queue [pin]dev\_cred.ssid = rtk [pin]dev\_cred.key = [pin]dev\_cred.auth\_type = u [pin]dev\_cred.encr\_type = u wps\_config\_wifi\_setting wps\_wifi.ssid = rtk wps\_wifi.ssid\_len = 3 security\_type = RTW\_SECURITY\_OPEN wps\_wifi.security\_type = 0 wps\_wifi.password = wps\_wifi.password\_len = 0 ========= wifi\_certificate\_info ==========



