

Pruebas realizadas - prototipo EmPOWER

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Capítulo 1

Detalle de pruebas realizadas

En este informe se presentan en mayor detalle las capturas tomadas por las pruebas realizadas.

Para cada una de las ejecuciones realizadas en las pruebas de concepto, como en las pruebas de despliegue, se presentan dos tipos de información. El primero hace referencia al pedido de escaneo desde *ScanApp* a los WTPs, para cada iteración del algoritmo. El segundo hace referencia al armado de estructuras y ejecución del algoritmo. Aquí se encuentra un caché, que contiene los LVAPs registrados por el controlador, que posteriormente serán utilizados para contrarrestar los obtenidos por cada WTP (si se encuentra en el caché, se toma en cuenta) para el armado de sus estructuras. También detalla las tuplas solución obtenidas por el algoritmo con su respectivo cálculo de interferencia.

1.1. Pruebas de concepto

1.1.1. Ejecución completa

Resultado del escaneo por WTP

```
----- PRIMERA ITERACION -----
----- SCAN START -----
router router1 erro: no connection
router router2 erro: no connection
router router3 erro: no connection
router router4 erro: no connection
router router7 erro: no connection
router router8 erro: no connection
router router10 erro: no connection
scan router router5
scan received router router5
scan router router6
scan received router router6
scan router router9
scan received router router9

----- SCAN WTP-5 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -35, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -65, QUALITY: 45/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -70, QUALITY: 40/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -39, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -40, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -84, QUALITY: 26/70
```

SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -247, QUALITY: 70/70

----- SCAN WTP-6 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -62, QUALITY: 48/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -62, QUALITY: 48/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -39, QUALITY: 70/70
SSID: wifing, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -41, QUALITY: 69/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -39, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -247, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -26, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -26, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -89, QUALITY: 21/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -84, QUALITY: 26/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -84, QUALITY: 26/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -25, QUALITY: 70/70

----- SCAN WTP-9 -----

SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -31, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -22, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -22, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -32, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -14, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -88, QUALITY: 22/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -89, QUALITY: 21/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -20, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -90, QUALITY: 20/70

----- SEGUNDA ITERACION -----

----- SCAN START -----

router router1 erro: no connection
router router2 erro: no connection
router router3 erro: no connection
router router4 erro: no connection
router router7 erro: no connection
router router8 erro: no connection
router router10 erro: no connection
scan router router5
scan received router router5
scan router router6
scan received router router6
scan router router9
scan received router router9

----- SCAN WTP-5 -----

SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -35, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -65, QUALITY: 45/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -18, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -17, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -91, QUALITY: 19/70

----- SCAN WTP-6 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -62, QUALITY: 48/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -63, QUALITY: 47/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -72, QUALITY: 38/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -247, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -26, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -26, QUALITY: 70/70

SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -90, QUALITY: 20/70
 SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -40, QUALITY: 70/70
 SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -40, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -25, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -23, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -22, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -60, QUALITY: 50/70
 SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -90, QUALITY: 20/70

----- SCAN WTP-9 -----

SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -77, QUALITY: 33/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -66, QUALITY: 44/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -77, QUALITY: 33/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -14, QUALITY: 70/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
 SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -86, QUALITY: 24/70
 SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -86, QUALITY: 24/70
 SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -86, QUALITY: 24/70
 SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -20, QUALITY: 70/70
 SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -84, QUALITY: 26/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -53, QUALITY: 57/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -53, QUALITY: 57/70

----- TERCERA ITERACION -----

----- SCAN START -----

router router1 erro: no connection
 router router2 erro: no connection
 router router3 erro: no connection
 router router4 erro: no connection
 router router7 erro: no connection
 router router8 erro: no connection
 router router10 erro: no connection
 scan router router5
 scan received router router5
 scan router router6
 scan received router router6
 scan router router9
 scan received router router9

----- SCAN WTP-5 -----

SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -65, QUALITY: 45/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -80, QUALITY: 30/70
 SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
 SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
 SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -18, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -62, QUALITY: 48/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -27, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -32, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -61, QUALITY: 49/70

----- SCAN WTP-6 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -62, QUALITY: 48/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -61, QUALITY: 49/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -247, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -26, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -26, QUALITY: 70/70
 SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -89, QUALITY: 21/70
 SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70
 SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -85, QUALITY: 25/70
 SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -25, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -23, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -20, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -20, QUALITY: 70/70
 SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -90, QUALITY: 20/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70

```

----- SCAN WTP-9 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -14, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -88, QUALITY: 22/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -89, QUALITY: 21/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -20, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -16, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -53, QUALITY: 57/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -17, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -17, QUALITY: 70/70

```

Resultado del algoritmo

```

----- PRIMERA ITERACION -----
----- LVAPS CACHE (Registrados por el Controlador) -----
lvap: router9, 00:1B:B3:E8:C0:33
lvap: router9, 00:1B:B3:01:0B:DF
lvap: router9, 00:1B:B3:6A:32:A1
lvap: router5, 00:1B:B3:A3:6F:12
lvap: router6, 00:1B:B3:D9:CA:21

(graph-> lvaps propios captados / neighborsConstraint-> redes externas)
----- graph router5 -----
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -65, QUALITY: 45/70
SSID: empowerSDN, ID: 1, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -247, QUALITY: 70/70
----- neighborsConstraint router5 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -40, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -82, QUALITY: 28/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -84, QUALITY: 26/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -39, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -70, QUALITY: 40/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -35, QUALITY: 70/70

----- graph router6 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -247, QUALITY: 70/70
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -26, QUALITY: 70/70
----- neighborsConstraint router6 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -62, QUALITY: 48/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -39, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -84, QUALITY: 26/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -39, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -84, QUALITY: 26/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -41, QUALITY: 69/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -62, QUALITY: 48/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70

----- graph router9 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -14, QUALITY: 70/70
SSID: empowerSDN, ID: 1, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -20, QUALITY: 70/70
----- neighborsConstraint router9 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -32, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -88, QUALITY: 22/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -31, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -90, QUALITY: 20/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -22, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -22, QUALITY: 70/70

Tupla solucion parcial:
WTP-5: canal 1
WTP-6: canal 1
WTP-9: canal 1
Interferencia total: 5.065714285714286

```

Tupla solucion parcial:
WTP-5: canal 1
WTP-6: canal 1
WTP-9: canal 11
Interferencia total: 3.1257142857142854

Tupla solucion parcial:
WTP-5: canal 1
WTP-6: canal 11
WTP-9: canal 1
Interferencia total: 2.9857142857142853

----- SEGUNDA ITERACION -----

----- LVAPS CACHE (Registrados por el Controlador) -----

lvap: router9, 00:1B:B3:A3:6F:12
lvap: router5, 00:1B:B3:A5:91:AB
lvap: router5, 00:1B:B3:6A:32:A1

(graph-> lvaps propios captados / neighborsConstraint-> redes externas)

----- graph router5 -----

SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -65, QUALITY: 45/70
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -17, QUALITY: 70/70

----- neighborsConstraint router5 -----

SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -35, QUALITY: 70/70

----- graph router6 -----

SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -247, QUALITY: 70/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -26, QUALITY: 70/70

----- neighborsConstraint router6 -----

SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -63, QUALITY: 47/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -40, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -90, QUALITY: 20/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -40, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -62, QUALITY: 48/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -72, QUALITY: 38/70

----- graph router9 -----

SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -14, QUALITY: 70/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -53, QUALITY: 57/70

----- neighborsConstraint router9 -----

SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -77, QUALITY: 33/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -86, QUALITY: 24/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -77, QUALITY: 33/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -86, QUALITY: 24/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -66, QUALITY: 44/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70

Tupla solucion parcial:
WTP-5: canal 1
WTP-6: canal 1
WTP-9: canal 1
Interferencia total: 3.8885714285714283

Tupla solucion parcial:
WTP-5: canal 1
WTP-6: canal 1
WTP-9: canal 11
Interferencia total: 3.22

Tupla solucion parcial:
WTP-5: canal 11
WTP-6: canal 1

WTP-9: canal 1
Interferencia total: 2.125714285714286

```
----- TERCERA ITERACION -----
----- LVAPS CACHE (Registrados por el Controlador) -----
lvap: router9, 00:1B:B3:A5:91:AB
lvap: router6, 00:1B:B3:A3:6F:12
lvap: router6, 00:1B:B3:6A:32:A1
lvap: router6, 00:1B:B3:01:0B:DF

(graph-> lvaps propios captados / neighborsConstraint-> redes externas)
----- graph router5 -----
SSID: empowerSDN, ID: 1, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -65, QUALITY: 45/70
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -61, QUALITY: 49/70
----- neighborsConstraint router5 -----
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -80, QUALITY: 30/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70

----- graph router6 -----
SSID: empowerSDN, ID: 1, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -247, QUALITY: 70/70
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -20, QUALITY: 70/70
----- neighborsConstraint router6 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -61, QUALITY: 49/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -89, QUALITY: 21/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -85, QUALITY: 25/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -62, QUALITY: 48/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70

----- graph router9 -----
SSID: empowerSDN, ID: 1, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -14, QUALITY: 70/70
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -53, QUALITY: 57/70
----- neighborsConstraint router9 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -88, QUALITY: 22/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -90, QUALITY: 20/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
```

Tupla solucion parcial:
WTP-5: canal 1
WTP-6: canal 1
WTP-9: canal 1
Interferencia total: 2.7399999999999993

Tupla solucion parcial:
WTP-5: canal 1
WTP-6: canal 1
WTP-9: canal 11
Interferencia total: 1.7914285714285714

Tupla solucion parcial:
WTP-5: canal 1
WTP-6: canal 11
WTP-9: canal 1
Interferencia total: 1.7714285714285714

Tupla solucion parcial:
WTP-5: canal 11
WTP-6: canal 1
WTP-9: canal 11
Interferencia total: 1.4314285714285715

Tupla solucion parcial:
WTP-5: canal 11
WTP-6: canal 11

WTP-9: canal 1
Interferencia total: 1.4114285714285713

1.1.2. Ejecución sin redes externas

Resultado del escaneo por WTP

```
----- PRIMERA ITERACION -----  
----- SCAN START -----  
router router1 erro: no connection  
router router2 erro: no connection  
router router3 erro: no connection  
router router4 erro: no connection  
router router7 erro: no connection  
router router8 erro: no connection  
router router10 erro: no connection  
scan router router5  
scan received router router5  
scan router router6  
scan received router router6  
scan router router9  
scan received router router9  
  
----- SCAN WTP-5 -----  
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70  
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -13, QUALITY: 70/70  
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -14, QUALITY: 70/70  
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -12, QUALITY: 70/70  
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70  
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -69, QUALITY: 41/70  
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -38, QUALITY: 70/70  
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -40, QUALITY: 70/70  
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 6, SIGNAL: -13, QUALITY: 70/70  
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -89, QUALITY: 21/70  
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -13, QUALITY: 70/70  
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -40, QUALITY: 70/70  
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70  
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70  
  
----- SCAN WTP-6 -----  
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -61, QUALITY: 49/70  
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -61, QUALITY: 49/70  
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -40, QUALITY: 70/70  
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -41, QUALITY: 69/70  
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -36, QUALITY: 70/70  
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -42, QUALITY: 68/70  
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -249, QUALITY: 70/70  
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -21, QUALITY: 70/70  
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -22, QUALITY: 70/70  
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -91, QUALITY: 19/70  
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70  
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70  
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -247, QUALITY: 70/70  
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 6, SIGNAL: -21, QUALITY: 70/70  
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -92, QUALITY: 18/70  
  
----- SCAN WTP-9 -----  
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70  
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -23, QUALITY: 70/70  
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -23, QUALITY: 70/70  
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -32, QUALITY: 70/70  
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -20, QUALITY: 70/70  
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70  
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -75, QUALITY: 35/70  
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -64, QUALITY: 46/70  
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -89, QUALITY: 21/70  
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70  
  
----- SEGUNDA ITERACION -----  
----- SCAN START -----  
router router1 erro: no connection  
router router2 erro: no connection
```

```

router router3 erro: no connection
router router4 erro: no connection
router router7 erro: no connection
router router8 erro: no connection
router router10 erro: no connection
scan router router5
scan received router router5
scan router router6
scan received router router6
scan router router9
scan received router router9

----- SCAN WTP-5 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: empowersDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
SSID: empowersDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -64, QUALITY: 46/70
SSID: empowersDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -65, QUALITY: 45/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -69, QUALITY: 41/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowersDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -91, QUALITY: 19/70
SSID: empowersDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -80, QUALITY: 30/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70
SSID: empowersDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 11, SIGNAL: -36, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -89, QUALITY: 21/70

----- SCAN WTP-6 -----
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -62, QUALITY: 48/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -63, QUALITY: 47/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -75, QUALITY: 35/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: empowersDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: empowersDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -68, QUALITY: 42/70
SSID: empowersDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -90, QUALITY: 20/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -40, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -39, QUALITY: 70/70
SSID: empowersDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -68, QUALITY: 42/70
SSID: empowersDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -92, QUALITY: 18/70
SSID: empowersDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -31, QUALITY: 70/70

----- SCAN WTP-9 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -33, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -22, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -22, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -32, QUALITY: 70/70
SSID: empowersDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -20, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -73, QUALITY: 37/70
SSID: empowersDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -64, QUALITY: 46/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -91, QUALITY: 19/70
SSID: empowersDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -56, QUALITY: 54/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -91, QUALITY: 19/70
SSID: empowersDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 11, SIGNAL: -61, QUALITY: 49/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -89, QUALITY: 21/70

```

Resultado del algoritmo

```

----- PRIMERA ITERACION -----
----- LVAPS CACHE (Registrados por el Controlador) -----
lvap: router9, 00:1B:B3:A5:91:AB
lvap: router9, 00:1B:B3:E8:C0:33
lvap: router9, 00:1B:B3:6A:32:A1
lvap: router5, 00:1B:B3:01:0B:DF
lvap: router9, 00:1B:B3:A3:6F:12

```

(graph-> lvaps propios captados / neighborsConstraint-> redes externas)

```

----- graph router5 -----
SSID: empowerSDN, ID: 1, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -13, QUALITY: 70/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -13, QUALITY: 70/70
----- neighborsConstraint router5 -----

----- graph router6 -----
SSID: empowerSDN, ID: 1, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -249, QUALITY: 70/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -247, QUALITY: 70/70
----- neighborsConstraint router6 -----

----- graph router9 -----
SSID: empowerSDN, ID: 1, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -20, QUALITY: 70/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -64, QUALITY: 46/70
----- neighborsConstraint router9 -----

Tupla solucion parcial:
WTP-5: canal 1
WTP-6: canal 1
WTP-9: canal 1
Interferencia total: 2.657142857142857

Tupla solucion parcial:
WTP-5: canal 1
WTP-6: canal 6
WTP-9: canal 1
Interferencia total: 0.6571428571428571

Tupla solucion parcial:
WTP-5: canal 1
WTP-6: canal 11
WTP-9: canal 6
Interferencia total: 0.0

----- SEGUNDA ITERACION -----
----- LVAPS CACHE (Registrados por el Controlador) -----
lvap: router6, 00:1B:B3:A3:6F:12
lvap: router5, 00:1B:B3:6A:32:A1

(graph-> lvaps propios captados / neighborsConstraint-> redes externas)
----- graph router5 -----
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -65, QUALITY: 45/70
----- neighborsConstraint router5 -----

----- graph router6 -----
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
----- neighborsConstraint router6 -----

----- graph router9 -----
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -20, QUALITY: 70/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -56, QUALITY: 54/70
----- neighborsConstraint router9 -----

Tupla solucion parcial:
WTP-5: canal 1
WTP-6: canal 1
WTP-9: canal 1
Interferencia total:1.3857142857142857

Tupla solucion parcial:
WTP-5: canal 1
WTP-6: canal 6
WTP-9: canal 1
Interferencia total:0.7714285714285715

Tupla solucion parcial:
WTP-5: canal 1
WTP-6: canal 1
WTP-9: canal 6
Interferencia total:0.6142857142857143

Tupla solucion parcial:

```

WTP-5: canal 1
WTP-6: canal 6
WTP-9: canal 6
Interferencia total:0.0

1.2. Pruebas de despliegue

1.2.1. Ejecución completa

Resultado del escaneo por WTP

```
----- PRIMERA ITERACION -----  
----- SCAN START -----  
scan router router6  
scan received router router6  
scan router router9  
scan received router router9  
scan router router2  
scan received router router2  
scan router router8  
scan received router router8  
scan router router1  
scan received router router1  
scan router router3  
scan received router router3  
scan router router4  
scan received router router4  
scan router router7  
scan received router router7  
scan router router5  
scan received router router5  
scan router router10  
scan received router router10  
  
----- SCAN WTP-6 -----  
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -54, QUALITY: 56/70  
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -62, QUALITY: 48/70  
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -40, QUALITY: 70/70  
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -41, QUALITY: 69/70  
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -41, QUALITY: 69/70  
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70  
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -40, QUALITY: 70/70  
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -22, QUALITY: 70/70  
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70  
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -30, QUALITY: 70/70  
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -29, QUALITY: 70/70  
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -45, QUALITY: 65/70  
SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -44, QUALITY: 66/70  
SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -19, QUALITY: 70/70  
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70  
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70  
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -83, QUALITY: 27/70  
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70  
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -83, QUALITY: 27/70  
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -83, QUALITY: 27/70  
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70  
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70  
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -42, QUALITY: 68/70  
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -43, QUALITY: 67/70  
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -44, QUALITY: 66/70  
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -90, QUALITY: 20/70  
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 11, SIGNAL: -45, QUALITY: 65/70  
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -46, QUALITY: 64/70  
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -63, QUALITY: 47/70  
  
----- SCAN WTP-9 -----  
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70  
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -63, QUALITY: 47/70  
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70  
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70  
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
```

SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -66, QUALITY: 44/70
SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -21, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -77, QUALITY: 33/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -46, QUALITY: 64/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -77, QUALITY: 33/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -92, QUALITY: 18/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -75, QUALITY: 35/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -77, QUALITY: 33/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:23:CB:60, CHANNEL: 1, SIGNAL: -92, QUALITY: 18/70
SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -88, QUALITY: 22/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -77, QUALITY: 33/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -92, QUALITY: 18/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -52, QUALITY: 58/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 11, SIGNAL: -19, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -19, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -45, QUALITY: 65/70
SSID: empowerSDN, ADDR: 00:1B:B3:EB:63:A8, CHANNEL: 6, SIGNAL: -45, QUALITY: 65/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -77, QUALITY: 33/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -48, QUALITY: 62/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -45, QUALITY: 65/70
SSID: empowerSDN, ADDR: 00:1B:B3:7E:39:CC, CHANNEL: 1, SIGNAL: -47, QUALITY: 63/70

----- SCAN WTP-2 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -46, QUALITY: 64/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 6, SIGNAL: -43, QUALITY: 67/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -86, QUALITY: 24/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -73, QUALITY: 37/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -87, QUALITY: 23/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -84, QUALITY: 26/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -72, QUALITY: 38/70
SSID: empowerSDN, ADDR: 00:1B:B3:EB:63:A8, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -61, QUALITY: 49/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -61, QUALITY: 49/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -80, QUALITY: 30/70
SSID: empowerSDN, ADDR: 00:1B:B3:7E:39:CC, CHANNEL: 1, SIGNAL: -80, QUALITY: 30/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -80, QUALITY: 30/70
SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -88, QUALITY: 22/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -55, QUALITY: 55/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -88, QUALITY: 22/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -77, QUALITY: 33/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -61, QUALITY: 49/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -72, QUALITY: 38/70
SSID: empowerSDN, ADDR: 00:1B:B3:23:CB:60, CHANNEL: 1, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -71, QUALITY: 39/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 11, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -89, QUALITY: 21/70

----- SCAN WTP-8 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -73, QUALITY: 37/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -80, QUALITY: 30/70
SSID: imfia, ADDR: 90:F6:52:F5:D6:26, CHANNEL: 1, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: 92:F6:52:F5:D6:26, CHANNEL: 1, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -52, QUALITY: 58/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -51, QUALITY: 59/70
SSID: inco, ADDR: 90:F6:52:F5:CC:A4, CHANNEL: 9, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -48, QUALITY: 62/70
SSID: empowerSDN, ADDR: 00:1B:B3:EB:63:A8, CHANNEL: 6, SIGNAL: -49, QUALITY: 61/70
SSID: empowerSDN, ADDR: 00:1B:B3:7E:39:CC, CHANNEL: 1, SIGNAL: -80, QUALITY: 30/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -81, QUALITY: 29/70
SSID: wifing, ADDR: 92:F6:52:F5:CC:A4, CHANNEL: 9, SIGNAL: -89, QUALITY: 21/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -87, QUALITY: 23/70

SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -84, QUALITY: 26/70

----- SCAN WTP-1 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -18, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -18, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -30, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -75, QUALITY: 35/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -28, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -46, QUALITY: 64/70
SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -32, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -80, QUALITY: 30/70
SSID: empowerSDN, ADDR: 00:1B:B3:EB:63:A8, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:7E:39:CC, CHANNEL: 1, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -48, QUALITY: 62/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -46, QUALITY: 64/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -37, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -47, QUALITY: 63/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -46, QUALITY: 64/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -38, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:23:CB:60, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -38, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 11, SIGNAL: -72, QUALITY: 38/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -72, QUALITY: 38/70

----- SCAN WTP-3 -----

SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -68, QUALITY: 42/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -68, QUALITY: 42/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -35, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -247, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -36, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -39, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -39, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -40, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -88, QUALITY: 22/70
SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -46, QUALITY: 64/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -74, QUALITY: 36/70
SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -52, QUALITY: 58/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -55, QUALITY: 55/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -75, QUALITY: 35/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -58, QUALITY: 52/70
SSID: empowerSDN, ADDR: 00:1B:B3:23:CB:60, CHANNEL: 1, SIGNAL: -53, QUALITY: 57/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -56, QUALITY: 54/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -57, QUALITY: 53/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -58, QUALITY: 52/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 11, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -88, QUALITY: 22/70

----- SCAN WTP-4 -----

SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -61, QUALITY: 49/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -69, QUALITY: 41/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -62, QUALITY: 48/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -64, QUALITY: 46/70

SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -69, QUALITY: 41/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -69, QUALITY: 41/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: empowerSDN, ADDR: 00:1B:B3:EB:63:A8, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -33, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -45, QUALITY: 65/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:7E:39:CC, CHANNEL: 1, SIGNAL: -43, QUALITY: 67/70
SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -61, QUALITY: 49/70
SSID: nkno, ADDR: F4:F2:6D:94:1E:11, CHANNEL: 1, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -61, QUALITY: 49/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -88, QUALITY: 22/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -88, QUALITY: 22/70
SSID: empowerSDN, ADDR: 00:1B:B3:23:CB:60, CHANNEL: 1, SIGNAL: -60, QUALITY: 50/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -61, QUALITY: 49/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -64, QUALITY: 46/70

----- SCAN WTP-7 -----

SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -49, QUALITY: 61/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -45, QUALITY: 65/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -65, QUALITY: 45/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -64, QUALITY: 46/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -92, QUALITY: 18/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -55, QUALITY: 55/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -51, QUALITY: 59/70
SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -41, QUALITY: 69/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -16, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -41, QUALITY: 69/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -16, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -41, QUALITY: 69/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -50, QUALITY: 60/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -84, QUALITY: 26/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -56, QUALITY: 54/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -56, QUALITY: 54/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -55, QUALITY: 55/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -56, QUALITY: 54/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -92, QUALITY: 18/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -92, QUALITY: 18/70

----- SCAN WTP-5 -----

SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -30, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -92, QUALITY: 18/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -71, QUALITY: 39/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -40, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -62, QUALITY: 48/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -39, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:23:CB:60, CHANNEL: 1, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -87, QUALITY: 23/70

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----- SCAN WTP-10 -----
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -58, QUALITY: 52/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -57, QUALITY: 53/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: imfia, ADDR: 90:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -80, QUALITY: 30/70
SSID: wifing, ADDR: 92:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -79, QUALITY: 31/70
SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -80, QUALITY: 30/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
SSID: nknow, ADDR: F4:F2:6D:94:1E:11, CHANNEL: 1, SIGNAL: -92, QUALITY: 18/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -91, QUALITY: 19/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -87, QUALITY: 23/70
SSID: wifing, ADDR: A0:F3:C1:D4:3D:14, CHANNEL: 10, SIGNAL: -93, QUALITY: 17/70

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----- SEGUNDA ITERACION -----
----- SCAN START -----

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scan router router6
scan received router router6
scan router router9
scan received router router9
scan router router2
scan received router router2
scan router router8
scan received router router8
scan router router1
scan received router router1
scan router router3
scan received router router3
scan router router4
scan received router router4
scan router router7
scan received router router7
scan router router5
scan received router router5
scan router router10
scan received router router10

```

```

----- SCAN WTP-6 -----
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -54, QUALITY: 56/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -62, QUALITY: 48/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -75, QUALITY: 35/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -22, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -30, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -29, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -44, QUALITY: 66/70
SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -63, QUALITY: 47/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -62, QUALITY: 48/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -32, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -83, QUALITY: 27/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -33, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70

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SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 11, SIGNAL: -45, QUALITY: 65/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -46, QUALITY: 64/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -62, QUALITY: 48/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70

----- SCAN WTP-9 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -72, QUALITY: 38/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -66, QUALITY: 44/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -66, QUALITY: 44/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -77, QUALITY: 33/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -21, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -17, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -77, QUALITY: 33/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -18, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -80, QUALITY: 30/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -92, QUALITY: 18/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -52, QUALITY: 58/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 11, SIGNAL: -19, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -56, QUALITY: 54/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -45, QUALITY: 65/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -77, QUALITY: 33/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -88, QUALITY: 22/70

----- SCAN WTP-2 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -43, QUALITY: 67/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -44, QUALITY: 66/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -86, QUALITY: 24/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -87, QUALITY: 23/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -72, QUALITY: 38/70
SSID: empowerSDN, ADDR: 00:1B:B3:EB:63:A8, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -61, QUALITY: 49/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:7E:39:CC, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -83, QUALITY: 27/70
SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -80, QUALITY: 30/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -83, QUALITY: 27/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -55, QUALITY: 55/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -72, QUALITY: 38/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -61, QUALITY: 49/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:23:CB:60, CHANNEL: 1, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -61, QUALITY: 49/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -71, QUALITY: 39/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 11, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -43, QUALITY: 67/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -82, QUALITY: 28/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -93, QUALITY: 17/70

----- SCAN WTP-8 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: imfia, ADDR: 90:F6:52:F5:D6:26, CHANNEL: 1, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: 92:F6:52:F5:D6:26, CHANNEL: 1, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -52, QUALITY: 58/70

SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -52, QUALITY: 58/70
SSID: inco, ADDR: 90:F6:52:F5:CC:A4, CHANNEL: 9, SIGNAL: -90, QUALITY: 20/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -91, QUALITY: 19/70

----- SCAN WTP-1 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -74, QUALITY: 36/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -73, QUALITY: 37/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -28, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -32, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -88, QUALITY: 22/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:7E:39:CC, CHANNEL: 1, SIGNAL: -92, QUALITY: 18/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -75, QUALITY: 35/70
SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -47, QUALITY: 63/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -49, QUALITY: 61/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -47, QUALITY: 63/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -76, QUALITY: 34/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -38, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:23:CB:60, CHANNEL: 1, SIGNAL: -88, QUALITY: 22/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -38, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 11, SIGNAL: -72, QUALITY: 38/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -28, QUALITY: 70/70
SSID: wifing, ADDR: 92:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -90, QUALITY: 20/70

----- SCAN WTP-3 -----

SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -69, QUALITY: 41/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -70, QUALITY: 40/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -247, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -247, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -36, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -39, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -39, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -40, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -46, QUALITY: 64/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -71, QUALITY: 39/70
SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:23:CB:60, CHANNEL: 1, SIGNAL: -53, QUALITY: 57/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -56, QUALITY: 54/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -57, QUALITY: 53/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -93, QUALITY: 17/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -88, QUALITY: 22/70
SSID: empowerSDN, ADDR: 00:1B:B3:C3:78:DE, CHANNEL: 1, SIGNAL: -70, QUALITY: 40/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -53, QUALITY: 57/70
SSID: empowerSDN, ADDR: 00:1B:B3:EB:63:A8, CHANNEL: 6, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:7E:39:CC, CHANNEL: 1, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -92, QUALITY: 18/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70

----- SCAN WTP-4 -----

SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -75, QUALITY: 35/70

SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -58, QUALITY: 52/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
 SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
 SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -58, QUALITY: 52/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
 SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -68, QUALITY: 42/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70
 SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
 SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -68, QUALITY: 42/70
 SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -69, QUALITY: 41/70
 SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
 SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -68, QUALITY: 42/70
 SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
 SSID: empowerSDN, ADDR: 00:1B:B3:EB:63:A8, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -62, QUALITY: 48/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -84, QUALITY: 26/70
 SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -84, QUALITY: 26/70
 SSID: empowerSDN, ADDR: 00:1B:B3:7E:39:CC, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
 SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -62, QUALITY: 48/70
 SSID: nknow, ADDR: F4:F2:6D:94:1E:11, CHANNEL: 1, SIGNAL: -85, QUALITY: 25/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -62, QUALITY: 48/70
 SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -88, QUALITY: 22/70
 SSID: empowerSDN, ADDR: 00:1B:B3:23:CB:60, CHANNEL: 1, SIGNAL: -62, QUALITY: 48/70
 SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -61, QUALITY: 49/70
 SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
 SSID: empowerSDN, ADDR: 00:1B:B3:53:5E:6D, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -87, QUALITY: 23/70
 SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
 SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -85, QUALITY: 25/70
 SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -87, QUALITY: 23/70
 SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -89, QUALITY: 21/70

----- SCAN WTP-7 -----

SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -49, QUALITY: 61/70
 SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -48, QUALITY: 62/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -59, QUALITY: 51/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -60, QUALITY: 50/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -92, QUALITY: 18/70
 SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -56, QUALITY: 54/70
 SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -56, QUALITY: 54/70
 SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
 SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -41, QUALITY: 69/70
 SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -66, QUALITY: 44/70
 SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -91, QUALITY: 19/70
 SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -66, QUALITY: 44/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -41, QUALITY: 69/70
 SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -50, QUALITY: 60/70
 SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -84, QUALITY: 26/70
 SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -56, QUALITY: 54/70
 SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -56, QUALITY: 54/70
 SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -56, QUALITY: 54/70
 SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -57, QUALITY: 53/70
 SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -92, QUALITY: 18/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -89, QUALITY: 21/70
 SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -89, QUALITY: 21/70
 SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -91, QUALITY: 19/70
 SSID: empowerSDN, ADDR: 00:1B:B3:C3:78:DE, CHANNEL: 1, SIGNAL: -66, QUALITY: 44/70
 SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70

----- SCAN WTP-5 -----

SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -64, QUALITY: 46/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
 SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -77, QUALITY: 33/70
 SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
 SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
 SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -18, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -71, QUALITY: 39/70
 SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70
 SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -18, QUALITY: 70/70

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SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -18, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -19, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -41, QUALITY: 69/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -89, QUALITY: 21/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -91, QUALITY: 19/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -91, QUALITY: 19/70

```

----- SCAN WTP-10 -----

```

SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -53, QUALITY: 57/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -53, QUALITY: 57/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
SSID: imfia, ADDR: 90:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -75, QUALITY: 35/70
SSID: wifing, ADDR: 92:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -79, QUALITY: 31/70
SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -45, QUALITY: 65/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -46, QUALITY: 64/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -45, QUALITY: 65/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -45, QUALITY: 65/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
SSID: nknow, ADDR: F4:F2:6D:94:1E:11, CHANNEL: 1, SIGNAL: -48, QUALITY: 62/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -92, QUALITY: 18/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -46, QUALITY: 64/70
SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -48, QUALITY: 62/70
SSID: empowerSDN, ADDR: 00:1B:B3:C3:78:DE, CHANNEL: 1, SIGNAL: -44, QUALITY: 66/70
SSID: empowerSDN, ADDR: 00:1B:B3:53:5E:6D, CHANNEL: 6, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -93, QUALITY: 17/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -86, QUALITY: 24/70

```

----- TERCERA ITERACION -----

----- SCAN START -----

```

scan router router6
scan received router router6
scan router router9
scan received router router9
scan router router2
scan received router router2
scan router router8
scan received router router8
scan router router1
scan received router router1
scan router router3
scan received router router3
scan router router4
scan received router router4
scan router router7
scan received router router7
scan router router5
scan received router router5
scan router router10
scan received router router10

```

----- SCAN WTP-6 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -63, QUALITY: 47/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -63, QUALITY: 47/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -22, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -30, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -29, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
 SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -63, QUALITY: 47/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -87, QUALITY: 23/70
 SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
 SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -64, QUALITY: 46/70
 SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
 SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -33, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
 SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
 SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 11, SIGNAL: -250, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -251, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -62, QUALITY: 48/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -88, QUALITY: 22/70
 SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
 SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -76, QUALITY: 34/70
 SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -83, QUALITY: 27/70
 SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -78, QUALITY: 32/70
 SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -40, QUALITY: 70/70
 SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -39, QUALITY: 70/70

----- SCAN WTP-9 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -72, QUALITY: 38/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -66, QUALITY: 44/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -71, QUALITY: 39/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
 SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -47, QUALITY: 63/70
 SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -85, QUALITY: 25/70
 SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
 SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
 SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
 SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
 SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -91, QUALITY: 19/70
 SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -80, QUALITY: 30/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -81, QUALITY: 29/70
 SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -52, QUALITY: 58/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 11, SIGNAL: -18, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -18, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -91, QUALITY: 19/70
 SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -77, QUALITY: 33/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
 SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
 SSID: empowerSDN, ADDR: 00:1B:B3:EB:63:A8, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -85, QUALITY: 25/70
 SSID: empowerSDN, ADDR: 00:1B:B3:23:CB:60, CHANNEL: 1, SIGNAL: -91, QUALITY: 19/70
 SSID: imfia, ADDR: 90:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -91, QUALITY: 19/70
 SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -91, QUALITY: 19/70

----- SCAN WTP-2 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -44, QUALITY: 66/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -49, QUALITY: 61/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -82, QUALITY: 28/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
 SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -85, QUALITY: 25/70
 SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -84, QUALITY: 26/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
 SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -72, QUALITY: 38/70
 SSID: empowerSDN, ADDR: 00:1B:B3:EB:63:A8, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
 SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
 SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
 SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -61, QUALITY: 49/70
 SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70

SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:7E:39:CC, CHANNEL: 1, SIGNAL: -76, QUALITY: 34/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -77, QUALITY: 33/70
SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -77, QUALITY: 33/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -74, QUALITY: 36/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -72, QUALITY: 38/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -88, QUALITY: 22/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -61, QUALITY: 49/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:23:CB:60, CHANNEL: 1, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -61, QUALITY: 49/70
SSID: wifing, ADDR: 92:F6:52:F5:D6:26, CHANNEL: 1, SIGNAL: -69, QUALITY: 41/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -71, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 11, SIGNAL: -44, QUALITY: 66/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -45, QUALITY: 65/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -82, QUALITY: 28/70

----- SCAN WTP-8 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
SSID: imfia, ADDR: 90:F6:52:F5:D6:26, CHANNEL: 1, SIGNAL: -77, QUALITY: 33/70
SSID: wifing, ADDR: 92:F6:52:F5:D6:26, CHANNEL: 1, SIGNAL: -69, QUALITY: 41/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -46, QUALITY: 64/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -51, QUALITY: 59/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -89, QUALITY: 21/70
SSID: wifing, ADDR: 92:F6:52:F5:CC:A4, CHANNEL: 9, SIGNAL: -88, QUALITY: 22/70

----- SCAN WTP-1 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -61, QUALITY: 49/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -75, QUALITY: 35/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -28, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -32, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -34, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -48, QUALITY: 62/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -75, QUALITY: 35/70
SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -47, QUALITY: 63/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -49, QUALITY: 61/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -47, QUALITY: 63/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -76, QUALITY: 34/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -38, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:23:CB:60, CHANNEL: 1, SIGNAL: -88, QUALITY: 22/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -38, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 11, SIGNAL: -80, QUALITY: 30/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: 92:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:EB:63:A8, CHANNEL: 6, SIGNAL: -45, QUALITY: 65/70
SSID: imfia, ADDR: 90:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -90, QUALITY: 20/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -90, QUALITY: 20/70

----- SCAN WTP-3 -----

SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -69, QUALITY: 41/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -70, QUALITY: 40/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -30, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -30, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -75, QUALITY: 35/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -39, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -39, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -40, QUALITY: 70/70

SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -46, QUALITY: 64/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -38, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -12, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:23:CB:60, CHANNEL: 1, SIGNAL: -12, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -56, QUALITY: 54/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -57, QUALITY: 53/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -12, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:EB:63:A8, CHANNEL: 6, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:7E:39:CC, CHANNEL: 1, SIGNAL: -48, QUALITY: 62/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -80, QUALITY: 30/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -83, QUALITY: 27/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -83, QUALITY: 27/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 11, SIGNAL: -89, QUALITY: 21/70

----- SCAN WTP-4 -----

SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -62, QUALITY: 48/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -64, QUALITY: 46/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -56, QUALITY: 54/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -71, QUALITY: 39/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -68, QUALITY: 42/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -69, QUALITY: 41/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -68, QUALITY: 42/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -93, QUALITY: 17/70
SSID: empowerSDN, ADDR: 00:1B:B3:EB:63:A8, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -60, QUALITY: 50/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -84, QUALITY: 26/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -84, QUALITY: 26/70
SSID: empowerSDN, ADDR: 00:1B:B3:7E:39:CC, CHANNEL: 1, SIGNAL: -84, QUALITY: 26/70
SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -61, QUALITY: 49/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -61, QUALITY: 49/70
SSID: empowerSDN, ADDR: 00:1B:B3:23:CB:60, CHANNEL: 1, SIGNAL: -62, QUALITY: 48/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -53, QUALITY: 57/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: empowerSDN, ADDR: 00:1B:B3:53:5E:6D, CHANNEL: 6, SIGNAL: -94, QUALITY: 16/70

----- SCAN WTP-7 -----

SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -50, QUALITY: 60/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -50, QUALITY: 60/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -65, QUALITY: 45/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -59, QUALITY: 51/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -92, QUALITY: 18/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -56, QUALITY: 54/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -56, QUALITY: 54/70
SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -41, QUALITY: 69/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -66, QUALITY: 44/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -55, QUALITY: 55/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -50, QUALITY: 60/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -84, QUALITY: 26/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -56, QUALITY: 54/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -56, QUALITY: 54/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -56, QUALITY: 54/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -57, QUALITY: 53/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -92, QUALITY: 18/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:C3:78:DE, CHANNEL: 1, SIGNAL: -66, QUALITY: 44/70

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SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -56, QUALITY: 54/70

----- SCAN WTP-5 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -64, QUALITY: 46/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -64, QUALITY: 46/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -71, QUALITY: 39/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -39, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -18, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -19, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -75, QUALITY: 35/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -253, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:23:CB:60, CHANNEL: 1, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:53:5E:6D, CHANNEL: 6, SIGNAL: -92, QUALITY: 18/70

----- SCAN WTP-10 -----
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -56, QUALITY: 54/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -57, QUALITY: 53/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: imfia, ADDR: 90:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -80, QUALITY: 30/70
SSID: wifing, ADDR: 92:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -79, QUALITY: 31/70
SSID: empowerSDN, ADDR: 00:1B:B3:EF:B8:0A, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -45, QUALITY: 65/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -45, QUALITY: 65/70
SSID: empowerSDN, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -92, QUALITY: 18/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -79, QUALITY: 31/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -46, QUALITY: 64/70
SSID: empowerSDN, ADDR: 00:1B:B3:EA:90:C9, CHANNEL: 1, SIGNAL: -48, QUALITY: 62/70
SSID: empowerSDN, ADDR: 00:1B:B3:C3:78:DE, CHANNEL: 1, SIGNAL: -44, QUALITY: 66/70
SSID: empowerSDN, ADDR: 00:1B:B3:53:5E:6D, CHANNEL: 6, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -92, QUALITY: 18/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -89, QUALITY: 21/70
SSID: wifing, ADDR: A0:F3:C1:D4:3D:14, CHANNEL: 10, SIGNAL: -93, QUALITY: 17/70

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Resultado del algoritmo

```

----- PRIMERA ITERACION -----
----- LVAPS CACHE (Registrados por el Controlador) -----
lvap: router3, 00:1B:B3:1F:E3:33

```



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lvap: router6, 00:1B:B3:A3:6F:12
lvap: router3, 00:1B:B3:01:0B:DF
lvap: router3, 00:1B:B3:D9:CA:21
lvap: router2, 00:1B:B3:BF:B6:DD
lvap: router1, 00:1B:B3:6A:32:A1
lvap: router2, 00:1B:B3:08:87:4E

(graph-> lvaps propios captados / neighborsConstraint-> redes externas)
----- graph router6 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -22, QUALITY: 70/70
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -29, QUALITY: 70/70
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -45, QUALITY: 65/70
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
----- neighborsConstraint router6 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -62, QUALITY: 48/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -40, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -40, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -41, QUALITY: 69/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -54, QUALITY: 56/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -41, QUALITY: 69/70

----- graph router9 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -66, QUALITY: 44/70
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -77, QUALITY: 33/70
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -92, QUALITY: 18/70
----- neighborsConstraint router9 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -63, QUALITY: 47/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -46, QUALITY: 64/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -45, QUALITY: 65/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70

----- graph router2 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -88, QUALITY: 22/70
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -61, QUALITY: 49/70
----- neighborsConstraint router2 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -86, QUALITY: 24/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -46, QUALITY: 64/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -43, QUALITY: 67/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -73, QUALITY: 37/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -72, QUALITY: 38/70

----- graph router8 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -90, QUALITY: 20/70
----- neighborsConstraint router8 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -80, QUALITY: 30/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -51, QUALITY: 59/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -52, QUALITY: 58/70
SSID: inco, ADDR: 90:F6:52:F5:CC:A4, CHANNEL: 9, SIGNAL: -81, QUALITY: 29/70
SSID: wifing, ADDR: 92:F6:52:F5:CC:A4, CHANNEL: 9, SIGNAL: -89, QUALITY: 21/70
SSID: imfia, ADDR: 90:F6:52:F5:D6:26, CHANNEL: 1, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: 92:F6:52:F5:D6:26, CHANNEL: 1, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -87, QUALITY: 23/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -73, QUALITY: 37/70

----- graph router1 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -28, QUALITY: 70/70
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -37, QUALITY: 70/70
----- neighborsConstraint router1 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -30, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -75, QUALITY: 35/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -18, QUALITY: 70/70

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SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -18, QUALITY: 70/70

----- graph router3 -----
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -39, QUALITY: 70/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -40, QUALITY: 70/70
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
----- neighborsConstraint router3 -----
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -36, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -68, QUALITY: 42/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -68, QUALITY: 42/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -88, QUALITY: 22/70

----- graph router4 -----
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -69, QUALITY: 41/70
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -33, QUALITY: 70/70
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -61, QUALITY: 49/70
----- neighborsConstraint router4 -----
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -61, QUALITY: 49/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -89, QUALITY: 21/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -69, QUALITY: 41/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -64, QUALITY: 46/70
SSID: nknow, ADDR: F4:F2:6D:94:1E:11, CHANNEL: 1, SIGNAL: -87, QUALITY: 23/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70

----- graph router7 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -92, QUALITY: 18/70
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -16, QUALITY: 70/70
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -16, QUALITY: 70/70
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -41, QUALITY: 69/70
----- neighborsConstraint router7 -----
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -49, QUALITY: 61/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -45, QUALITY: 65/70

----- graph router5 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -30, QUALITY: 70/70
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -71, QUALITY: 39/70
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
----- neighborsConstraint router5 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -40, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -39, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70

----- graph router10 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
----- neighborsConstraint router10 -----
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -87, QUALITY: 23/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: imfia, ADDR: 90:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -80, QUALITY: 30/70
SSID: wifing, ADDR: A0:F3:C1:D4:3D:14, CHANNEL: 10, SIGNAL: -93, QUALITY: 17/70
SSID: wifing, ADDR: 92:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -79, QUALITY: 31/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -58, QUALITY: 52/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -57, QUALITY: 53/70

Tupla solucion final:
WTP-1: canal 11
WTP-2: canal 11
WTP-3: canal 6

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WTP-4: canal 1
WTP-5: canal 1
WTP-6: canal 11
WTP-7: canal 1
WTP-8: canal 6
WTP-9: canal 1
WTP-10: canal 1
Interferencia total: 7.9628571428571435

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----- SEGUNDA ITERACION -----
----- LVAPS CACHE (Registrados por el Controlador) -----
lvap: router6, 00:1B:B3:6A:32:A1
lvap: router7, 00:1B:B3:A3:6F:12
lvap: router5, 00:1B:B3:01:0B:DF
lvap: router8, 00:1B:B3:53:5E:6D
lvap: router8, 00:1B:B3:BF:B6:DD
lvap: router4, 00:1B:B3:C3:78:DE

(graph-> lvaps propios captados / neighborsConstraint-> redes externas)
----- graph router6 -----
SSID: empowerSDN, ID: 7, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -22, QUALITY: 70/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -29, QUALITY: 70/70
SSID: empowerSDN, ID: 8, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -82, QUALITY: 28/70
----- neighborsConstraint router6 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -62, QUALITY: 48/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -54, QUALITY: 56/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -75, QUALITY: 35/70

----- graph router9 -----
SSID: empowerSDN, ID: 7, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ID: 8, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -18, QUALITY: 70/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -92, QUALITY: 18/70
----- neighborsConstraint router9 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -77, QUALITY: 33/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -72, QUALITY: 38/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -66, QUALITY: 44/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -66, QUALITY: 44/70

----- graph router2 -----
SSID: empowerSDN, ID: 7, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -83, QUALITY: 27/70
SSID: empowerSDN, ID: 8, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -61, QUALITY: 49/70
----- neighborsConstraint router2 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -86, QUALITY: 24/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -43, QUALITY: 67/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -44, QUALITY: 66/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -93, QUALITY: 17/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -82, QUALITY: 28/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70

----- graph router8 -----
SSID: empowerSDN, ID: 7, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -91, QUALITY: 19/70
----- neighborsConstraint router8 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -52, QUALITY: 58/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -52, QUALITY: 58/70
SSID: inco, ADDR: 90:F6:52:F5:CC:A4, CHANNEL: 9, SIGNAL: -90, QUALITY: 20/70
SSID: imfia, ADDR: 90:F6:52:F5:D6:26, CHANNEL: 1, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: 92:F6:52:F5:D6:26, CHANNEL: 1, SIGNAL: -79, QUALITY: 31/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70

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----- graph router1 -----
SSID: empowerSDN, ID: 7, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -28, QUALITY: 70/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -47, QUALITY: 63/70
SSID: empowerSDN, ID: 8, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -76, QUALITY: 34/70
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
----- neighborsConstraint router1 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -74, QUALITY: 36/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -73, QUALITY: 37/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -73, QUALITY: 37/70
SSID: wifing, ADDR: 92:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -90, QUALITY: 20/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70

----- graph router3 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -39, QUALITY: 70/70
SSID: empowerSDN, ID: 7, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -40, QUALITY: 70/70
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
SSID: empowerSDN, ID: 8, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ID: 6, ADDR: 00:1B:B3:C3:78:DE, CHANNEL: 1, SIGNAL: -70, QUALITY: 40/70
----- neighborsConstraint router3 -----
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -36, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -69, QUALITY: 41/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -70, QUALITY: 40/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70

----- graph router4 -----
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: empowerSDN, ID: 7, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -62, QUALITY: 48/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -62, QUALITY: 48/70
SSID: empowerSDN, ID: 8, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -61, QUALITY: 49/70
----- neighborsConstraint router4 -----
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -58, QUALITY: 52/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -89, QUALITY: 21/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -75, QUALITY: 35/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -68, QUALITY: 42/70
SSID: nknew, ADDR: F4:F2:6D:94:1E:11, CHANNEL: 1, SIGNAL: -85, QUALITY: 25/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70

----- graph router7 -----
SSID: empowerSDN, ID: 7, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -92, QUALITY: 18/70
SSID: empowerSDN, ID: 8, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -66, QUALITY: 44/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -41, QUALITY: 69/70
SSID: empowerSDN, ID: 6, ADDR: 00:1B:B3:C3:78:DE, CHANNEL: 1, SIGNAL: -66, QUALITY: 44/70
----- neighborsConstraint router7 -----
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -49, QUALITY: 61/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -48, QUALITY: 62/70

----- graph router5 -----
SSID: empowerSDN, ID: 7, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -77, QUALITY: 33/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -71, QUALITY: 39/70
SSID: empowerSDN, ID: 8, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -19, QUALITY: 70/70
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 6, SIGNAL: -89, QUALITY: 21/70
----- neighborsConstraint router5 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -64, QUALITY: 46/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70

----- graph router10 -----
SSID: empowerSDN, ID: 7, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:BF:B6:DD, CHANNEL: 1, SIGNAL: -45, QUALITY: 65/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -46, QUALITY: 64/70
SSID: empowerSDN, ID: 8, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -45, QUALITY: 65/70
SSID: empowerSDN, ID: 6, ADDR: 00:1B:B3:C3:78:DE, CHANNEL: 1, SIGNAL: -44, QUALITY: 66/70
----- neighborsConstraint router10 -----

```

```

SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -86, QUALITY: 24/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -86, QUALITY: 24/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
SSID: imfia, ADDR: 90:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -75, QUALITY: 35/70
SSID: wifing, ADDR: 92:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -79, QUALITY: 31/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -53, QUALITY: 57/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -53, QUALITY: 57/70

```

Tupla solucion final:

```

WTP-1: canal 1
WTP-2: canal 11
WTP-3: canal 1
WTP-4: canal 11
WTP-5: canal 11
WTP-6: canal 11
WTP-7: canal 1
WTP-8: canal 6
WTP-9: canal 11
WTP-10: canal 1
Interferencia total: 5.597142857142857

```

----- TERCERA ITERACION -----

----- LVAPS CACHE (Registrados por el Controlador) -----

```

lvap: router1, 00:1B:B3:1F:E3:33
lvap: router3, 00:1B:B3:6A:32:A1

```

(graph-> lvaps propios captados / neighborsConstraint-> redes externas)

```

----- graph router6 -----
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -29, QUALITY: 70/70
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -64, QUALITY: 46/70
----- neighborsConstraint router6 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -63, QUALITY: 47/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -39, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -40, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -63, QUALITY: 47/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70

```

```

----- graph router9 -----
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -47, QUALITY: 63/70
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -81, QUALITY: 29/70
----- neighborsConstraint router9 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -71, QUALITY: 39/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -72, QUALITY: 38/70
SSID: imfia, ADDR: 90:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -91, QUALITY: 19/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -66, QUALITY: 44/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70

```

```

----- graph router2 -----
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -87, QUALITY: 23/70
----- neighborsConstraint router2 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -82, QUALITY: 28/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -44, QUALITY: 66/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -49, QUALITY: 61/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -82, QUALITY: 28/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -73, QUALITY: 37/70

```

```

----- graph router8 -----
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -89, QUALITY: 21/70
----- neighborsConstraint router8 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -51, QUALITY: 59/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -46, QUALITY: 64/70
SSID: wifing, ADDR: 92:F6:52:F5:CC:A4, CHANNEL: 9, SIGNAL: -88, QUALITY: 22/70

```

```

SSID: imfia, ADDR: 90:F6:52:F5:D6:26, CHANNEL: 1, SIGNAL: -77, QUALITY: 33/70
SSID: wifing, ADDR: 92:F6:52:F5:D6:26, CHANNEL: 1, SIGNAL: -69, QUALITY: 41/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70

----- graph router1 -----
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -75, QUALITY: 35/70
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -47, QUALITY: 63/70
----- neighborsConstraint router1 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -75, QUALITY: 35/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -73, QUALITY: 37/70
SSID: imfia, ADDR: 90:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -90, QUALITY: 20/70
SSID: wifing, ADDR: 92:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -91, QUALITY: 19/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -61, QUALITY: 49/70

----- graph router3 -----
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -39, QUALITY: 70/70
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -15, QUALITY: 70/70
----- neighborsConstraint router3 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -83, QUALITY: 27/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -69, QUALITY: 41/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -70, QUALITY: 40/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -80, QUALITY: 30/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -75, QUALITY: 35/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -91, QUALITY: 19/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -83, QUALITY: 27/70

----- graph router4 -----
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -68, QUALITY: 42/70
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -61, QUALITY: 49/70
----- neighborsConstraint router4 -----
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -62, QUALITY: 48/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -64, QUALITY: 46/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -71, QUALITY: 39/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70

----- graph router7 -----
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -55, QUALITY: 55/70
----- neighborsConstraint router7 -----
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -50, QUALITY: 60/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -50, QUALITY: 60/70

----- graph router5 -----
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -71, QUALITY: 39/70
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 6, SIGNAL: -89, QUALITY: 21/70
----- neighborsConstraint router5 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -64, QUALITY: 46/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -39, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -83, QUALITY: 27/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -64, QUALITY: 46/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70

----- graph router10 -----
SSID: empowerSDN, ID: 5, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 1, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ID: 4, ADDR: 00:1B:B3:1F:E3:33, CHANNEL: 1, SIGNAL: -90, QUALITY: 20/70
----- neighborsConstraint router10 -----
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -87, QUALITY: 23/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -79, QUALITY: 31/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: imfia, ADDR: 90:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -80, QUALITY: 30/70

```

```

SSID: wifing, ADDR: A0:F3:C1:D4:3D:14, CHANNEL: 10, SIGNAL: -93, QUALITY: 17/70
SSID: wifing, ADDR: 92:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -79, QUALITY: 31/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -56, QUALITY: 54/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -57, QUALITY: 53/70

```

```

Tupla solucion final:
WTP-1: canal 11
WTP-2: canal 11
WTP-3: canal 11
WTP-4: canal 1
WTP-5: canal 1
WTP-6: canal 1
WTP-7: canal 1
WTP-8: canal 6
WTP-9: canal 11
WTP-10: canal 1
Interferencia total: 4.417142857142857

```

1.2.2. Ejecución sin redes externas

Resultado del escaneo por WTP

```

----- PRIMERA ITERACION -----
----- SCAN START -----
scan router router5
scan received router router5
scan router router2
scan received router router2
scan router router4
scan received router router4
scan router router10
scan received router router10
scan router router9
scan received router router9
scan router router7
scan received router router7
scan router router8
scan received router router8
scan router router1
scan received router router1
scan router router6
scan received router router6
scan router router3
scan received router router3

----- SCAN WTP-5 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -39, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 6, SIGNAL: -34, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -92, QUALITY: 18/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -75, QUALITY: 35/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -76, QUALITY: 34/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -71, QUALITY: 39/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70

----- SCAN WTP-2 -----
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -43, QUALITY: 67/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -43, QUALITY: 67/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -77, QUALITY: 33/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -87, QUALITY: 23/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -86, QUALITY: 24/70

```

SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -75, QUALITY: 35/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: empowerSDN, ADDR: 00:1B:B3:C3:78:DE, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -72, QUALITY: 38/70
SSID: wifing, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -67, QUALITY: 43/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -60, QUALITY: 50/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -59, QUALITY: 51/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -69, QUALITY: 41/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -60, QUALITY: 50/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -44, QUALITY: 66/70

----- SCAN WTP-4 -----

SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -62, QUALITY: 48/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -72, QUALITY: 38/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -61, QUALITY: 49/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -64, QUALITY: 46/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: nknew, ADDR: F4:F2:6D:94:1E:11, CHANNEL: 1, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -80, QUALITY: 30/70
SSID: empowerSDN, ADDR: 00:1B:B3:C3:78:DE, CHANNEL: 6, SIGNAL: -21, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 6, SIGNAL: -20, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -66, QUALITY: 44/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -87, QUALITY: 23/70

----- SCAN WTP-10 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -14, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -14, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -34, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -42, QUALITY: 68/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -34, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -34, QUALITY: 70/70
SSID: imfia, ADDR: 90:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -75, QUALITY: 35/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -42, QUALITY: 68/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -81, QUALITY: 29/70
SSID: wifing, ADDR: 92:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -48, QUALITY: 62/70
SSID: nknew, ADDR: F4:F2:6D:94:1E:11, CHANNEL: 1, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -42, QUALITY: 68/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -42, QUALITY: 68/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -41, QUALITY: 69/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -39, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 6, SIGNAL: -47, QUALITY: 63/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -80, QUALITY: 30/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 11, SIGNAL: -79, QUALITY: 31/70

----- SCAN WTP-9 -----

SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -33, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -23, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -23, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -22, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -7, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -74, QUALITY: 36/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 6, SIGNAL: -22, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -41, QUALITY: 69/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -46, QUALITY: 64/70

SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -46, QUALITY: 64/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -64, QUALITY: 46/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -45, QUALITY: 65/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -43, QUALITY: 67/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -91, QUALITY: 19/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 11, SIGNAL: -79, QUALITY: 31/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -90, QUALITY: 20/70

----- SCAN WTP-7 -----

SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -51, QUALITY: 59/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -50, QUALITY: 60/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -65, QUALITY: 45/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -65, QUALITY: 45/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -92, QUALITY: 18/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -61, QUALITY: 49/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -60, QUALITY: 50/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -47, QUALITY: 63/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -88, QUALITY: 22/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -59, QUALITY: 51/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -61, QUALITY: 49/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 11, SIGNAL: -46, QUALITY: 64/70

----- SCAN WTP-8 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -80, QUALITY: 30/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -70, QUALITY: 40/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -53, QUALITY: 57/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -53, QUALITY: 57/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -88, QUALITY: 22/70
SSID: wifing, ADDR: 92:F6:52:F5:CC:A4, CHANNEL: 9, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70
SSID: inco, ADDR: 90:F6:52:F5:CC:A4, CHANNEL: 9, SIGNAL: -90, QUALITY: 20/70
SSID: imfia, ADDR: 90:F6:52:F5:D6:26, CHANNEL: 1, SIGNAL: -71, QUALITY: 39/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -91, QUALITY: 19/70

----- SCAN WTP-1 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -59, QUALITY: 51/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -79, QUALITY: 31/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -73, QUALITY: 37/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -48, QUALITY: 62/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -47, QUALITY: 63/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -48, QUALITY: 62/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 6, SIGNAL: -68, QUALITY: 42/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -47, QUALITY: 63/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -80, QUALITY: 30/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -80, QUALITY: 30/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:C3:78:DE, CHANNEL: 6, SIGNAL: -88, QUALITY: 22/70
SSID: imfia, ADDR: 90:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 11, SIGNAL: -82, QUALITY: 28/70

----- SCAN WTP-6 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -62, QUALITY: 48/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -62, QUALITY: 48/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70

SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -68, QUALITY: 42/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
 SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
 SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -90, QUALITY: 20/70
 SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -90, QUALITY: 20/70
 SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -84, QUALITY: 26/70
 SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -84, QUALITY: 26/70
 SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -76, QUALITY: 34/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -76, QUALITY: 34/70
 SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
 SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
 SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -68, QUALITY: 42/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -46, QUALITY: 64/70
 SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 11, SIGNAL: -88, QUALITY: 22/70

----- SCAN WTP-3 -----

SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -68, QUALITY: 42/70
 SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -64, QUALITY: 46/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -246, QUALITY: 70/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -246, QUALITY: 70/70
 SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -36, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -19, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -42, QUALITY: 68/70
 SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -47, QUALITY: 63/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -45, QUALITY: 65/70
 SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -42, QUALITY: 68/70
 SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -25, QUALITY: 70/70
 SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -35, QUALITY: 70/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -82, QUALITY: 28/70
 SSID: empowerSDN, ADDR: 00:1B:B3:C3:78:DE, CHANNEL: 6, SIGNAL: -17, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 6, SIGNAL: -20, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 6, SIGNAL: -38, QUALITY: 70/70
 SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -80, QUALITY: 30/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -81, QUALITY: 29/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -46, QUALITY: 64/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -88, QUALITY: 22/70
 SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -75, QUALITY: 35/70
 SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -72, QUALITY: 38/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -90, QUALITY: 20/70
 SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 11, SIGNAL: -63, QUALITY: 47/70

----- SEGUNDA ITERACION -----

----- SCAN START -----

scan router router5
 scan received router router5
 scan router router2
 scan received router router2
 scan router router4
 scan received router router4
 scan router router10
 scan received router router10
 scan router router9
 scan received router router9
 scan router router7
 scan received router router7
 scan router router8
 scan received router router8
 scan router router1
 scan received router router1
 scan router router6
 scan received router router6
 scan router router3
 scan received router router3

----- SCAN WTP-5 -----

SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
 SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
 SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
 SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -68, QUALITY: 42/70
 SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -67, QUALITY: 43/70
 SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70

SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 6, SIGNAL: -34, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -75, QUALITY: 35/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -76, QUALITY: 34/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -71, QUALITY: 39/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -35, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 11, SIGNAL: -89, QUALITY: 21/70

----- SCAN WTP-2 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -47, QUALITY: 63/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -48, QUALITY: 62/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 6, SIGNAL: -84, QUALITY: 26/70
SSID: empowerSDN, ADDR: 00:1B:B3:C3:78:DE, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -72, QUALITY: 38/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -60, QUALITY: 50/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -69, QUALITY: 41/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -60, QUALITY: 50/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:2B:DB, CHANNEL: 1, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -87, QUALITY: 23/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -87, QUALITY: 23/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70

----- SCAN WTP-4 -----

SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -61, QUALITY: 49/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -68, QUALITY: 42/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -61, QUALITY: 49/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -74, QUALITY: 36/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: nknow, ADDR: F4:F2:6D:94:1E:11, CHANNEL: 1, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ADDR: 00:1B:B3:C3:78:DE, CHANNEL: 6, SIGNAL: -21, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 6, SIGNAL: -20, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -66, QUALITY: 44/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -89, QUALITY: 21/70

----- SCAN WTP-10 -----

SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -11, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -14, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -34, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -41, QUALITY: 69/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -34, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -33, QUALITY: 70/70
SSID: imfia, ADDR: 90:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -75, QUALITY: 35/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -42, QUALITY: 68/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -82, QUALITY: 28/70
SSID: wifing, ADDR: 92:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -76, QUALITY: 34/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -48, QUALITY: 62/70

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SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -42, QUALITY: 68/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -42, QUALITY: 68/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -41, QUALITY: 69/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -39, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -80, QUALITY: 30/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 6, SIGNAL: -47, QUALITY: 63/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 11, SIGNAL: -79, QUALITY: 31/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:2B:DB, CHANNEL: 1, SIGNAL: -79, QUALITY: 31/70
SSID: empowerSDN, ADDR: 00:1B:B3:4B:4D:8C, CHANNEL: 6, SIGNAL: -88, QUALITY: 22/70
SSID: empowerSDN, ADDR: 00:1B:B3:2C:BA:00, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -88, QUALITY: 22/70

----- SCAN WTP-9 -----
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -76, QUALITY: 34/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -77, QUALITY: 33/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -7, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -74, QUALITY: 36/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 6, SIGNAL: -22, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -41, QUALITY: 69/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -46, QUALITY: 64/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -61, QUALITY: 49/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -66, QUALITY: 44/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -45, QUALITY: 65/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -60, QUALITY: 50/70
SSID: empowerSDN, ADDR: 00:1B:B3:C3:78:DE, CHANNEL: 6, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70

----- SCAN WTP-7 -----
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -49, QUALITY: 61/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -51, QUALITY: 59/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -64, QUALITY: 46/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -64, QUALITY: 46/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -92, QUALITY: 18/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -61, QUALITY: 49/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -60, QUALITY: 50/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -47, QUALITY: 63/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -88, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -88, QUALITY: 22/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -64, QUALITY: 46/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 11, SIGNAL: -46, QUALITY: 64/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:2B:DB, CHANNEL: 1, SIGNAL: -55, QUALITY: 55/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -48, QUALITY: 62/70

----- SCAN WTP-8 -----
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -52, QUALITY: 58/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -47, QUALITY: 63/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -91, QUALITY: 19/70
SSID: wifing, ADDR: 92:F6:52:F5:CC:A4, CHANNEL: 9, SIGNAL: -89, QUALITY: 21/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70
SSID: inco, ADDR: 90:F6:52:F5:CC:A4, CHANNEL: 9, SIGNAL: -89, QUALITY: 21/70
SSID: imfia, ADDR: 90:F6:52:F5:D6:26, CHANNEL: 1, SIGNAL: -37, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -91, QUALITY: 19/70
SSID: wifing, ADDR: 92:F6:52:F5:D6:26, CHANNEL: 1, SIGNAL: -38, QUALITY: 70/70
SSID: wifing, ADDR: 92:F6:52:DC:2D:F4, CHANNEL: 4, SIGNAL: -90, QUALITY: 20/70

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----- SCAN WTP-1 -----
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -62, QUALITY: 48/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -78, QUALITY: 32/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -75, QUALITY: 35/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -73, QUALITY: 37/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -73, QUALITY: 37/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -48, QUALITY: 62/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 6, SIGNAL: -68, QUALITY: 42/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -47, QUALITY: 63/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -80, QUALITY: 30/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -80, QUALITY: 30/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -30, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:C3:78:DE, CHANNEL: 6, SIGNAL: -88, QUALITY: 22/70
SSID: imfia, ADDR: 90:F6:52:F5:D2:D0, CHANNEL: 5, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 11, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -74, QUALITY: 36/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -75, QUALITY: 35/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -91, QUALITY: 19/70

----- SCAN WTP-6 -----
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -62, QUALITY: 48/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -62, QUALITY: 48/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: inco, ADDR: C0:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -75, QUALITY: 35/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:60, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -68, QUALITY: 42/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -90, QUALITY: 20/70
SSID: inco, ADDR: C0:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -40, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:57:E2, CHANNEL: 11, SIGNAL: -84, QUALITY: 26/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -76, QUALITY: 34/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -31, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -68, QUALITY: 42/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -46, QUALITY: 64/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 11, SIGNAL: -88, QUALITY: 22/70
SSID: empowerSDN, ADDR: 00:1B:B3:4B:4D:8C, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -31, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:2C:BA:00, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70

----- SCAN WTP-3 -----
SSID: inco, ADDR: C0:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -68, QUALITY: 42/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:56, CHANNEL: 8, SIGNAL: -69, QUALITY: 41/70
SSID: inco, ADDR: C0:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -28, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:82, CHANNEL: 6, SIGNAL: -31, QUALITY: 70/70
SSID: wifing, ADDR: C2:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -19, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -42, QUALITY: 68/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -45, QUALITY: 65/70
SSID: empowerSDN, ADDR: 00:1B:B3:D9:CA:21, CHANNEL: 6, SIGNAL: -42, QUALITY: 68/70
SSID: empowerSDN, ADDR: 00:1B:B3:9D:C4:A8, CHANNEL: 6, SIGNAL: -25, QUALITY: 70/70
SSID: inco, ADDR: C0:4A:00:A4:6A:B6, CHANNEL: 6, SIGNAL: -80, QUALITY: 30/70
SSID: inco, ADDR: C0:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -91, QUALITY: 19/70
SSID: empowerSDN, ADDR: 00:1B:B3:C3:78:DE, CHANNEL: 6, SIGNAL: -17, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 6, SIGNAL: -20, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 6, SIGNAL: -38, QUALITY: 70/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 1, SIGNAL: -80, QUALITY: 30/70
SSID: empowerSDN, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 1, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -42, QUALITY: 68/70
SSID: empowerSDN, ADDR: 00:1B:B3:01:0B:DF, CHANNEL: 1, SIGNAL: -75, QUALITY: 35/70
SSID: empowerSDN, ADDR: 00:1B:B3:08:87:4E, CHANNEL: 1, SIGNAL: -78, QUALITY: 32/70
SSID: wifing, ADDR: C2:4A:00:A4:6B:DC, CHANNEL: 3, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ADDR: 00:1B:B3:19:72:23, CHANNEL: 11, SIGNAL: -63, QUALITY: 47/70
SSID: empowerSDN, ADDR: 00:1B:B3:E8:2B:DB, CHANNEL: 1, SIGNAL: -75, QUALITY: 35/70
SSID: empowerSDN, ADDR: 00:1B:B3:A5:91:AB, CHANNEL: 1, SIGNAL: -86, QUALITY: 24/70

```

Resultado del algoritmo

```
----- PRIMERA ITERACION -----
----- LVAPS CACHE (Registrados por el Controlador) -----
lvap: router10, 00:1B:B3:A3:6F:12
lvap: router10, 00:1B:B3:E8:C0:33
lvap: router10, 00:1B:B3:19:72:23
lvap: router3, 00:1B:B3:6A:31:68
lvap: router5, 00:1B:B3:6A:32:A1

(graph-> lvaps propios captados / neighborsConstraint-> redes externas)
----- graph router5 -----
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -85, QUALITY: 25/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
SSID: empowerSDN, ID: 9, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -86, QUALITY: 24/70
----- neighborsConstraint router5 -----

----- graph router2 -----
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -75, QUALITY: 35/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ID: 9, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -60, QUALITY: 50/70
----- neighborsConstraint router2 -----

----- graph router4 -----
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:E8:C0:33, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: empowerSDN, ID: 9, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -66, QUALITY: 44/70
----- neighborsConstraint router4 -----

----- graph router10 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -42, QUALITY: 68/70
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -48, QUALITY: 62/70
----- neighborsConstraint router10 -----

----- graph router9 -----
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -22, QUALITY: 70/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -7, QUALITY: 70/70
SSID: empowerSDN, ID: 9, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -83, QUALITY: 27/70
----- neighborsConstraint router9 -----

----- graph router7 -----
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -92, QUALITY: 18/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -47, QUALITY: 63/70
SSID: empowerSDN, ID: 9, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -61, QUALITY: 49/70
----- neighborsConstraint router7 -----

----- graph router8 -----
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -88, QUALITY: 22/70
----- neighborsConstraint router8 -----

----- graph router1 -----
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -48, QUALITY: 62/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -48, QUALITY: 62/70
SSID: empowerSDN, ID: 9, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -80, QUALITY: 30/70
----- neighborsConstraint router1 -----

----- graph router6 -----
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
SSID: empowerSDN, ID: 9, ADDR: 00:1B:B3:6A:31:68, CHANNEL: 6, SIGNAL: -81, QUALITY: 29/70
----- neighborsConstraint router6 -----

----- graph router3 -----
SSID: empowerSDN, ID: 3, ADDR: 00:1B:B3:19:72:23, CHANNEL: 6, SIGNAL: -19, QUALITY: 70/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -42, QUALITY: 68/70
----- neighborsConstraint router3 -----

Tupla solucion final:
WTP-5: canal 1
WTP-2: canal 6
WTP-4: canal 1
WTP-10: canal 6
WTP-9: canal 11
WTP-7: canal 11
WTP-8: canal 1
```

```

WTP-1: canal 11
WTP-6: canal 11
WTP-3: canal 11
Interferencia total: 0.0

```

```

----- SEGUNDA ITERACION -----
----- LVAPS CACHE (Registrados por el Controlador) -----
lvap: router6, 00:1B:B3:6A:32:A1
lvap: router5, 00:1B:B3:A5:91:AB
lvap: router5, 00:1B:B3:A3:6F:12
lvap: router4, 00:1B:B3:E8:2B:DB

(graph-> lvaps propios captados / neighborsConstraint-> redes externas)
----- graph router5 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: empowerSDN, ID: 8, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -63, QUALITY: 47/70
----- neighborsConstraint router5 -----

----- graph router2 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -79, QUALITY: 31/70
SSID: empowerSDN, ID: 8, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:E8:2B:DB, CHANNEL: 1, SIGNAL: -90, QUALITY: 20/70
----- neighborsConstraint router2 -----

----- graph router4 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -78, QUALITY: 32/70
SSID: empowerSDN, ID: 8, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 11, SIGNAL: -89, QUALITY: 21/70
----- neighborsConstraint router4 -----

----- graph router10 -----
SSID: empowerSDN, ID: 8, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -42, QUALITY: 68/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -42, QUALITY: 68/70
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:E8:2B:DB, CHANNEL: 1, SIGNAL: -79, QUALITY: 31/70
----- neighborsConstraint router10 -----

----- graph router9 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -90, QUALITY: 20/70
SSID: empowerSDN, ID: 8, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -7, QUALITY: 70/70
----- neighborsConstraint router9 -----

----- graph router7 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -92, QUALITY: 18/70
SSID: empowerSDN, ID: 8, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -47, QUALITY: 63/70
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:E8:2B:DB, CHANNEL: 1, SIGNAL: -55, QUALITY: 55/70
----- neighborsConstraint router7 -----

----- graph router8 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -91, QUALITY: 19/70
----- neighborsConstraint router8 -----

----- graph router1 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -87, QUALITY: 23/70
SSID: empowerSDN, ID: 8, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -48, QUALITY: 62/70
----- neighborsConstraint router1 -----

----- graph router6 -----
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -82, QUALITY: 28/70
SSID: empowerSDN, ID: 8, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -67, QUALITY: 43/70
----- neighborsConstraint router6 -----

----- graph router3 -----
SSID: empowerSDN, ID: 8, ADDR: 00:1B:B3:6A:32:A1, CHANNEL: 6, SIGNAL: -42, QUALITY: 68/70
SSID: empowerSDN, ID: 0, ADDR: 00:1B:B3:A3:6F:12, CHANNEL: 6, SIGNAL: -45, QUALITY: 65/70
SSID: empowerSDN, ID: 2, ADDR: 00:1B:B3:E8:2B:DB, CHANNEL: 1, SIGNAL: -75, QUALITY: 35/70
----- neighborsConstraint router3 -----

Tupla solucion final:
WTP-5: canal 1
WTP-2: canal 6
WTP-4: canal 6
WTP-10: canal 11
WTP-9: canal 6
WTP-7: canal 11

```

```

WTP-8: canal 6
WTP-1: canal 6
WTP-6: canal 6
WTP-3: canal 11
Interferencia total: 0.0

```

1.3. Pruebas de utilidad

1.3.1. Prueba bajo tráfico

En esta sección se expondrán los resultados proporcionados por la ejecución de la aplicación *iperf* discriminada por los distintos escenarios descritos en la sección de pruebas.

```

Escenario 1:
UDP
Controlador -> Cliente
Red EmPOWER - canal 6
Sin generar trafico en el canal
-----
empower@ubuntu:~/runtime$ iperf -c 192.168.9.9 -u -t 30 -b 50M
-----
Client connecting to 192.168.9.9, UDP port 5001
Sending 1470 byte datagrams
UDP buffer size: 208 KByte (default)
-----
[ 3] local 192.168.9.6 port 37435 connected with 192.168.9.9 port 5001
[ ID] Interval      Transfer    Bandwidth
[ 3] 0.0-30.0 sec   170 MBytes  47.6 Mbits/sec
[ 3] Sent 121357 datagrams
-----
[ 3] Server Report:
[ 3] 0.0-30.1 sec   76.7 MBytes  21.4 Mbits/sec   2.242 ms 66630/121356 (55%)
[ 3] 0.0-30.1 sec   126 datagrams received out-of-order

Escenario 2:
UDP
Controlador -> Cliente
Red EmPOWER - canal 6
Generando trafico a 20M en el canal 6
-----
empower@ubuntu:~/runtime$ iperf -c 192.168.9.9 -u -t 30 -b 50M
-----
Client connecting to 192.168.9.9, UDP port 5001
Sending 1470 byte datagrams
UDP buffer size: 208 KByte (default)
-----
[ 3] local 192.168.9.6 port 44401 connected with 192.168.9.9 port 5001
[ ID] Interval      Transfer    Bandwidth
[ 3] 0.0-30.0 sec   163 MBytes  45.6 Mbits/sec
[ 3] Sent 116264 datagrams
-----
[ 3] Server Report:
[ 3] 0.0-30.2 sec   68.9 MBytes  19.1 Mbits/sec   0.891 ms 67126/116263 (58%)
[ 3] 0.0-30.2 sec    8 datagrams received out-of-order

Escenario 3
UDP
Controlador -> Cliente
Red EmPOWER - canal 6
Generando Trafico a 100M en el canal 6
-----
empower@ubuntu:~/runtime$ iperf -c 192.168.9.9 -u -t 30 -b 50M
-----
Client connecting to 192.168.9.9, UDP port 5001
Sending 1470 byte datagrams
UDP buffer size: 208 KByte (default)
-----
[ 3] local 192.168.9.6 port 56414 connected with 192.168.9.9 port 5001

```



```

[ ID] Interval      Transfer      Bandwidth
[ 3] 0.0-30.0 sec    176 MBytes   49.2 Mbits/sec
[ 3] Sent 125432 datagrams
[ 3] WARNING: did not receive ack of last datagram after 10 tries.
-----
[ 3] Server Report:
[ 3] 0.0-37.3 sec    3.59 MBytes   808 Kbits/sec  16.482 ms 122843/125406 (98%)
[ 3] 0.0-37.3 sec    105 datagrams received out-of-order

```

Escenario 4:
UDP
Controlador -> Cliente
Red EmPOWER - canal 11
Generando Trafico a 100M en el canal 6

```
empower@ubuntu:~/runtime$ iperf -c 192.168.9.9 -u -t 30 -b 50M
```

```

Client connecting to 192.168.9.9, UDP port 5001
Sending 1470 byte datagrams
UDP buffer size: 208 KByte (default)

```

```

[ 3] local 192.168.9.6 port 51115 connected with 192.168.9.9 port 5001
[ ID] Interval      Transfer      Bandwidth
[ 3] 0.0-30.0 sec    171 MBytes   47.7 Mbits/sec
[ 3] Sent 121634 datagrams
-----
[ 3] Server Report:
[ 3] 0.0-30.2 sec    73.9 MBytes   20.5 Mbits/sec   0.965 ms 68921/121633 (57%)
[ 3] 0.0-30.2 sec    45 datagrams received out-of-order

```