

## NOTES:

- Terminal outputs are from my specific test kits. Your output should look similar but device addresses/information will be different.
- There is a failure output and a table of steps to restart the group in case of a connection failure.

## Connecting Two Mira Kits

Step #	Mira #1 Commands	Output	Mira #2 Commands	Output
1	ifconfig eth0 down	none	ifconfig eth0 down	none
2	ifconfig wlan0 down	root@phyboard-mira-imx6-10:~# ifconfig wlan0 down wlc0re: down	ifconfig wlan0 down	root@phyboard-mira-imx6-10:~# ifconfig wlan0 down wlc0re: down
3	ifconfig wlan0 <ip addr #1> up	root@phyboard-mira-imx6-10:~# ifconfig wlan0 192.168.3.62 up wlc0re: firmware booted (Rev 6.3.10.0.133) IPv6: ADDRCONF(NETDEV_UP): wlan0: link is not ready	ifconfig wlan0 <ip addr #2> up	root@phyboard-mira-imx6-10:~# ifconfig wlan0 192.168.3.67 up wlc0re: firmware booted (Rev 6.3.10.0.133) IPv6: ADDRCONF(NETDEV_UP): wlan0: link is not ready
4	wpa_supplicant -i wlan0 -c /etc/wpa_supplicant.conf - Dnl80211&	root@phyboard-mira-imx6-10:~# wpa_supplicant -i wlan0 -c /etc/wpa_supplicant.conf -Dnl80211& [1] 203 root@phyboard-mira-imx6-10:~# Successfully initialized wpa_supplicant	wpa_supplicant -i wlan0 -c /etc/wpa_supplicant.conf - Dnl80211&	root@phyboard-mira-imx6-10:~# wpa_supplicant -i wlan0 -c /etc/wpa_supplicant.conf -Dnl80211& [1] 203 root@phyboard-mira-imx6-10:~# Successfully initialized wpa_supplicant
5	wpa_cli -i wlan0	root@phyboard-mira-imx6-10:~# wpa_cli -i wlan0 wpa_cli v2.5 Copyright (c) 2004-2015, Jouni Malinen <j@w1.fi> and contributors  This software may be distributed under the terms of the BSD license. See README for more details.  Interactive mode >	wpa_cli -i wlan0	root@phyboard-mira-imx6-10:~# wpa_cli -i wlan0 wpa_cli v2.5 Copyright (c) 2004-2015, Jouni Malinen <j@w1.fi> and contributors  This software may be distributed under the terms of the BSD license. See README for more details.  Interactive mode >
6	p2p_group_add	> p2p_group_add OK > wlc0re: down Using interface wlan0 with hwaddr 5c:31:3e:f1:32:61 and ssid "DIRECT-Xo" random: Cannot read from /dev/random: Resource temporarily unavailable random: Only 15/20 bytes of strong random data [ 540.760138] IPv6: ADDRCONF(NETDEV_CHANGE): wlan0: link becomes ready available from /dev/random random: Not enough entropy pool available for secure operations WPA: Not enough entropy in random pool for secure operations - update keys later when the first station connects wlan0: interface state UNINITIALIZED->ENABLED wlan0: AP-ENABLED <3>AP-ENABLED wlan0: CTRL-EVENT-CONNECTED - Connection to 5c:31:3e:f1:32:61 completed [id=0 id_str=] <3>CTRL-EVENT-CONNECTED - Connection to 5c:31:3e:f1:32:61 completed [id=0 id_str=] <3>P2P-GROUP-STARTED wlan0 GO ssid="DIRECT-Xo" freq=2412		

		<pre> passphrase="xL21xNTG" go_dev_addr=5c:31:3e:f1:32:61 P2P-GROUP-STARTED wlan0 GO ssid="DIRECT-Xo" freq=2412 go_dev_addr=5c:31:3e:f1:32:61 </pre>		
7	wps_pin any	<pre> &gt;&gt; wps_pin any 38218958 </pre>		
8		<pre> &gt; P2P-PROV-DISC-SHOW-PIN 5c:31:3e:fe:13:ab 40103877 p2p_dev_addr=5c:31:3e:fe:13:ab pri_dev_type=2-0050F204-1 name='mira67' config_methods=0x1108 dev_capab=0x25 group_capab=0x0 group=wlan0 &lt;3&gt;P2P-PROV-DISC-SHOW-PIN 5c:31:3e:fe:13:ab 40103877 p2p_dev_addr=5c:31:3e:fe:13:ab pri_dev_type=2-0050F204-1 name='mira67' config_methods=0x1108 dev_capab=0x25 group_capab=0x0 group=wlan0 &lt;3&gt;WPS-ENROLLEE-SEEN 5c:31:3e:fe:13:ab 684d1b91-676b-55ef- 90a9-55c94e363220 2-0050F204-1 0x3108 0 1 [mira67] &lt;3&gt;WPS-ENROLLEE-SEEN 5c:31:3e:fe:13:ab 684d1b91-676b-55ef- 90a9-55c94e363220 2-0050F204-1 0x3108 0 1 [mira67] wlan0: CTRL-EVENT-EAP-STARTED 5c:31:3e:fe:13:ab &lt;3&gt;CTRL-EVENT-EAP-STARTED 5c:31:3e:fe:13:ab wlan0: CTRL-EVENT-EAP-PROPOSED-METHOD vendor=0 method=1 &lt;3&gt;CTRL-EVENT-EAP-PROPOSED-METHOD vendor=0 method=1 wlan0: CTRL-EVENT-EAP-PROPOSED-METHOD vendor=14122 method=254 &lt;3&gt;CTRL-EVENT-EAP-PROPOSED-METHOD vendor=14122 method=254 wlan0: WPS-REG-SUCCESS 5c:31:3e:fe:13:ab 684d1b91-676b-55ef- 90a9-55c94e363220 &lt;3&gt;WPS-REG-SUCCESS 5c:31:3e:fe:13:ab 684d1b91-676b-55ef-90a9- 55c94e363220 wlan0: WPS-SUCCESS &lt;3&gt;WPS-SUCCESS wlan0: CTRL-EVENT-EAP-FAILURE 5c:31:3e:fe:13:ab &lt;3&gt;CTRL-EVENT-EAP-FAILURE 5c:31:3e:fe:13:ab wlan0: AP-STA-CONNECTED 5c:31:3e:fe:13:ab p2p_dev_addr=5c:31:3e:fe:13:ab &lt;3&gt;AP-STA-CONNECTED 5c:31:3e:fe:13:ab p2p_dev_addr=5c:31:3e:fe:13:ab </pre>	<pre> p2p_connect &lt;Mira #1 go_dev_addr&gt; &lt;Mira #1 wps_pin&gt; join </pre>	<pre> &gt;&gt; p2p_connect 5c:31:3e:f1:32:61 38218958 join OK &lt;3&gt;CTRL-EVENT-SCAN-STARTED P2P-DEVICE-LOST p2p_dev_addr=72:5a:0f:a2:65:0f &lt;3&gt;P2P-DEVICE-LOST p2p_dev_addr=72:5a:0f:a2:65:0f P2P-DEVICE-LOST p2p_dev_addr=aa:6b:ad:1d:b4:93 &lt;3&gt;P2P-DEVICE-LOST p2p_dev_addr=aa:6b:ad:1d:b4:93 P2P-DEVICE-LOST p2p_dev_addr=5c:31:3e:f1:32:61 &lt;3&gt;P2P-DEVICE-LOST p2p_dev_addr=5c:31:3e:f1:32:61 P2P-DEVICE-FOUND 5c:31:3e:f1:32:61 p2p_dev_addr=5c:31:3e:f1:32:61 pri_dev_type=2-0050F204-1 name='mira62' config_methods=0x1108 dev_capab=0x25 group_capab=0x89 new=1 &lt;3&gt;P2P-DEVICE-FOUND 5c:31:3e:f1:32:61 p2p_dev_addr=5c:31:3e:f1:32:61 pri_dev_type=2-0050F204-1 name='mira62' config_methods=0x1108 dev_capab=0x25 group_capab=0x89 new=1 &lt;3&gt;CTRL-EVENT-SCAN-STARTED &lt;3&gt;CTRL-EVENT-SCAN-RESULTS [ 982.831281] wlc core: down wlan0: SME: Trying to authenticate with 5c:31:3e:f1:32:61 (SSID='DIRECT-Cb' freq=2412 MHz) &lt;3&gt;SME: Trying to authenticate with 5c:31:3e:f1:32:61 (SSID='DIRECT- Cb' freq=2412 MHz) [ 982.881348] wlan0: authenticate with 5c:31:3e:f1:32:61 [ 982.912994] wlan0: send auth to 5c:31:3e:f1:32:61 (try 1/3) [ 983.007061] wlan0: authenticated wlan0: Trying to associate with 5 [ 983.013183] wlan0: associate with 5c:31:3e:f1:32:61 (try 1/3) c:31:3e:f1:32:61 (SSID='DIRECT-Cb' freq=2412 MHz) &lt;3&gt;Trying to associate with 5c:31:3e:f1:32:61 (SSID='DIRECT-Cb' freq=2412 MHz) [ 983.042538] wlan0: RX AssocResp from 5c:31:3e:f1:32:61 (capab=0x411 status=0 aid=1) [ 983.072490] wlan0: associated wlan0: Associated with 5c:31:3e:f1:32:61 wlan0: CTRL-EVENT-EAP-STARTED EAP authentication started &lt;3&gt;Associated with 5c:31:3e:f1:32:61 &lt;3&gt;CTRL-EVENT-EAP-STARTED EAP authentication started &lt;3&gt;CTRL-EVENT-EAP-STATUS status='started' parameter="" wlan0: CTRL-EVENT-EAP-PROPOSED-METHOD vendor=14122 method=1 wlan0: CTRL-EVENT-EAP-METHOD EAP vendor 14122 method 1 (WSC) selected &lt;3&gt;CTRL-EVENT-EAP-PROPOSED-METHOD vendor=14122 method=1 &lt;3&gt;CTRL-EVENT-EAP-STATUS status='accept proposed method' parameter='WSC' &lt;3&gt;CTRL-EVENT-EAP-METHOD EAP vendor 14122 method 1 (WSC) </pre>

				<pre>selected wlan0: WPS-CRED-RECEIVED &lt;3&gt;WPS-CRED-RECEIVED wlan0: WPS-SUCCESS &lt;3&gt;WPS-SUCCESS P2P-GROUP-FORMATION-SUCCESS &lt;3&gt;P2P-GROUP-FORMATION-SUCCESS &lt;3&gt;CTRL-EVENT-EAP-STATUS stat[ 984.012672] wlan0: deauthenticating from 5c:31:3e:f1:32:61 by local choice (Reason: 3=DEAUTH_LEAVING) us='completion' parameter='failure' wlan0: CTRL-EVENT-EAP-FAILURE EAP authentication failed &lt;3&gt;CTRL-EVENT-EAP-FAILURE EAP authentication failed [ 984.100603] cfg80211: Calling CRDA to update world regulatory domain wlan0: CTRL-EVENT-DISCONNECTED bssid=5c:31:3e:f1:32:61 reason=3 locally_generated=1 &lt;3&gt;CTRL-EVENT-DISCONNECTED bssid=5c:31:3e:f1:32:61 reason=3 locally_gene[ 984.121130] wlan0: authenticate with 5c:31:3e:f1:32:61 rated=1 wlan0: SME: Trying to authenticate with 5c:31:3e:f1:32:61 (SSID='DIRECT-Cb' freq=2412 MHz) &lt;3&gt;SME: Trying to authenticate with 5c:31:3e:f1:32:61 (SSID='DIRECT- Cb' freq=2412 MHz) [ 984.174477] wlan0: send auth to 5c:31:3e:f1:32:61 (try 1/3) [ 984.181682] cfg80211: World regulatory domain updated: [ 984.186955] cfg80211: DFS Master region: unset [ 984.191337] cfg80211: (start_freq - end_freq @ bandwidth), (max_antenna_gain, max_eirp), (dfs_cac_time) [ 984.201224] cfg80211: (2402000 KHz - 2472000 KHz @ 40000 KHz), (N/A, 2000 mBm), (N/A) [ 984.209330] cfg80211: (2457000 KHz - 2482000 KHz @ 40000 KHz), (N/A, 2000 mBm), (N/A) [ 984.217435] cfg80211: (2474000 KHz - 2494000 KHz @ 20000 KHz), (N/A, 2000 mBm), (N/A) [ 984.225537] cfg80211: (5170000 KHz - 5250000 KHz @ 80000 KHz, 160000 KHz AUTO), (N/A, 2000 mBm), (N/A) [ 984.235143] cfg80211: (5250000 KHz - 5330000 KHz @ 80000 KHz, 160000 KHz AUTO), (N/A, 2000 mBm), (0 s) [ 984.244787] cfg80211: (5490000 KHz - 5730000 KHz @ 160000 KHz), (N/A, 2000 mBm), (0 s) [ 984.253016] cfg80211: (5735000 KHz - 5835000 KHz @ 80000 KHz), (N/A, 2000 mBm), (N/A) [ 984.261075] cfg80211: (57240000 KHz - 63720000 KHz @ 2160000 KHz), (N/A, 0 mBm), (N/A) wlan0: CTRL-EVENT-REGDOM-CHANGE [ 984.270961] wlan0: authenticated nit=CORE type=WORLD &lt;3&gt;CTRL-EVENT-REGDOM-CHANGE init=CORE type=WORLD wlan0: Tryi[ 984.282170] wlan0: associate with 5c:31:3e:f1:32:61 (try 1/3) ng to associate with 5c:31:3e:f1:32:61 (SSID='DIRECT-Cb' freq=2412 MHz) &lt;3&gt;Trying to associate with 5c:31:3e:f1:32:61 (SSID='DIRECT-Cb' freq=2412 MHz)</pre>
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				<pre>[ 984.313220] wlan0: RX AssocResp from 5c:31:3e:f1:32:61 (capab=0x411 status=0 aid=1) [ 984.333125] wlan0: associated wlan0: Associated with 5c:31:3e:f1:32:61 &lt;3&gt;Associated with 5c:31:3e:f1:32:61 wlan0: WPA: Key negotiation completed with 5c:31:3e:f1:32:61 [PTK=CCMP GTK=CCMP] &lt;3&gt;WPA: Key negotiation completed with 5c:3[ 984.404425] wlcore: Association completed. 1:3e:f1:32:61 [PTK=CCMP GTK=CCMP] wlan0: CTRL-EVENT-CONNECTED - Connection to 5c:31:3e:f1:32:61 completed [id=0 id_str=] &lt;3&gt;CTRL-EVENT-CONNECTED - Connection to 5c:31:3e:f1:32:61 completed [id=0 id_str=] &lt;3&gt;P2P-GROUP-STARTED wlan0 client ssid="DIRECT-Cb" freq=2412 psk=a672d38839deaf700ef1a114f958f0f4b7699e9887cd613376f94b46 f7ca8073 go_dev_addr=5c:31:3e:f1:32:61 P2P-GROUP-STARTED wlan0 client ssid="DIRECT-Cb" freq=2412 go_dev_addr=5c:31:3e:f1:32:61</pre>
9	q	<pre>&gt;&gt; q &gt; root@phyboard-mira-imx6-10:~#</pre>	q	<pre>&gt;&gt; q &gt; root@phyboard-mira-imx6-10:~#</pre>
10	ping <Mira #2 ip addr>	<pre>root@phyboard-mira-imx6-10:~# ping 192.168.3.67 PING 192.168.3.67 (192.168.3.67): 56 data bytes 64 bytes from 192.168.3.67: seq=0 ttl=64 time=249.172 ms 64 bytes from 192.168.3.67: seq=1 ttl=64 time=24.951 ms 64 bytes from 192.168.3.67: seq=2 ttl=64 time=20.195 ms 64 bytes from 192.168.3.67: seq=3 ttl=64 time=22.090 ms 64 bytes from 192.168.3.67: seq=4 ttl=64 time=21.122 ms --- 192.168.3.67 ping statistics --- 5 packets transmitted, 5 packets received, 0% packet loss round-trip min/avg/max = 20.195/67.506/249.172 ms ^Croot@phyboard-mira-imx6-10:~#</pre>	ping <Mira #1 ip addr>	<pre>root@phyboard-mira-imx6-10:~# ping 192.168.3.67 PING 192.168.3.67 (192.168.3.67): 56 data bytes 64 bytes from 192.168.3.67: seq=0 ttl=64 time=249.172 ms 64 bytes from 192.168.3.67: seq=1 ttl=64 time=24.951 ms 64 bytes from 192.168.3.67: seq=2 ttl=64 time=20.195 ms 64 bytes from 192.168.3.67: seq=3 ttl=64 time=22.090 ms 64 bytes from 192.168.3.67: seq=4 ttl=64 time=21.122 ms --- 192.168.3.67 ping statistics --- 5 packets transmitted, 5 packets received, 0% packet loss round-trip min/avg/max = 20.195/67.506/249.172 ms ^Croot@phyboard-mira-imx6-10:~#</pre>

## Failure Output

If Step #8 for Mira #2 does connect properly you will see a similar console output as the following on Mira #1.

Output from Mira #1	Output from Mira #2
<pre>&gt; P2P-DEVICE-FOUND 5c:31:3e:fe:13:ab p2p_dev_addr=5c:31:3e:fe:13:ab pri_dev_type=2-0050F204-1 name='mira67' config_methods=0x1108 dev_capab=0x25 group_capab=0x0 new=1 &lt;3&gt;P2P-DEVICE-FOUND 5c:31:3e:fe:13:ab p2p_dev_addr=5c:31:3e:fe:13:ab pri_dev_type=2-0050F204-1 name='mira67' config_methods=0x1108 dev_capab=0x25 group_capab=0x0 new=1 P2P-PROV-DISC-SHOW-PIN 5c:31:3e:fe:13:ab 96558805 p2p_dev_addr=5c:31:3e:fe:13:ab pri_dev_type=2-0050F204-1 name='mira67' config_methods=0x1108 dev_capab=0x25 group_capab=0x0 group=wlan0 &lt;3&gt;P2P-PROV-DISC-SHOW-PIN 5c:31:3e:fe:13:ab 96558805 p2p_dev_addr=5c:31:3e:fe:13:ab pri_dev_type=2-0050F204-1 name='mira67' config_methods=0x1108 dev_capab=0x25 group_capab=0x0 group=wlan0 &lt;3&gt;WPS-ENROLLEE-SEEN 5c:31:3e:fe:13:ab 684d1b91-676b-55ef-90a9-55c94e363220 2-0050F204-1 0x3108 0 1 [mira67] &lt;3&gt;WPS-ENROLLEE-SEEN 5c:31:3e:fe:13:ab 684d1b91-676b-55ef-90a9-55c94e363220 2-0050F204-1 0x3108 0 1 [mira67] wlan0: CTRL-EVENT-EAP-STARTED 5c:31:3e:fe:13:ab &lt;3&gt;CTRL-EVENT-EAP-STARTED 5c:31:3e:fe:13:ab wlan0: CTRL-EVENT-EAP-PROPOSED-METHOD vendor=0 method=1 &lt;3&gt;CTRL-EVENT-EAP-PROPOSED-METHOD vendor=0 method=1 wlan0: CTRL-EVENT-EAP-PROPOSED-METHOD vendor=14122 method=254 &lt;3&gt;CTRL-EVENT-EAP-PROPOSED-METHOD vendor=14122 method=254 wlan0: WPS-REG-SUCCESS 5c:31:3e:fe:13:ab 684d1b91-676b-55ef-90a9-55c94e363220 &lt;3&gt;WPS-REG-SUCCESS 5c:31:3e:fe:13:ab 684d1b91-676b-55ef-90a9-55c94e363220 wlan0: WPS-SUCCESS &lt;3&gt;WPS-SUCCESS wlan0: CTRL-EVENT-EAP-FAILURE 5c:31:3e:fe:13:ab &lt;3&gt;CTRL-EVENT-EAP-FAILURE 5c:31:3e:fe:13:ab random: Cannot read from /dev/random: Resource temporarily unavailable random: Only 15/20 bytes of strong random data available from /dev/random random: Not enough entropy pool available for secure operations WPA: Not enough entropy in random pool to proceed - reject first 4-way handshake &lt;3&gt;WPS-ENROLLEE-SEEN 5c:31:3e:fe:13:ab 684d1b91-676b-55ef-90a9-55c94e363220 2-0050F204-1 0x3108 0 0 [mira67] &lt;3&gt;WPS-ENROLLEE-SEEN 5c:31:3e:fe:13:ab 684d1b91-676b-55ef-90a9-55c94e363220 2-0050F204-1 0x3108 0 0 [mira67] random: Cannot read from /dev/random: Resource temporarily unavailable random: Only 15/20 bytes of strong random data available from /dev/random random: Not enough entropy pool available for secure operations WPA: Not enough entropy in random pool to proceed - reject first 4-way handshake</pre>	<pre>&gt; p2p_connect 5c:31:3e:f1:32:61 73088356 join OK &lt;3&gt;CTRL-EVENT-SCAN-STARTED P2P-DEVICE-FOUND 5c:31:3e:f1:32:61 p2p_dev_addr=5c:31:3e:f1:32:61 pri_dev_type=2-0050F204-1 name='mira62' config_methods=0x1108 dev_capab=0x25 group_capab=0x89 new=1 &lt;3&gt;P2P-DEVICE-FOUND 5c:31:3e:f1:32:61 p2p_dev_addr=5c:31:3e:f1:32:61 pri_dev_type=2-0050F204-1 name='mira62' config_methods=0x1108 dev_capab=0x25 group_capab=0x89 new=1 P2P-DEVICE-FOUND aa:6b:ad:1d:34:93 p2p_dev_addr=aa:6b:ad:1d:b4:93 pri_dev_type=3-0050F204-1 name='DIRECT-93-HP M452 LaserJet' config_methods=0x5a88 dev_capab=0x0 group_capab=0x1 vendor_elems=1 new=1 &lt;3&gt;P2P-DEVICE-FOUND aa:6b:ad:1d:34:93 p2p_dev_addr=aa:6b:ad:1d:b4:93 pri_dev_type=3-0050F204-1 name='DIRECT-93-HP M452 LaserJet' config_methods=0x5a88 dev_capab=0x0 group_capab=0x1 vendor_elems=1 new=1 P2P-DEVICE-FOUND 70:5a:0f:a2:1d:0c p2p_dev_addr=72:5a:0f:a2:65:0f pri_dev_type=3-0050F204-1 name='DIRECT-0F-HP OfficeJet Pro 8710' config_methods=0x5a88 dev_capab=0x4 group_capab=0x1 vendor_elems=1 new=1 &lt;3&gt;P2P-DEVICE-FOUND 70:5a:0f:a2:1d:0c p2p_dev_addr=72:5a:0f:a2:65:0f pri_ [ 919.203852] wlcore: down dev_type=3-0050F204-1 name='DIRECT-0F-HP OfficeJet Pro 8710' config_methods=0x5a88 dev_capab=0x4 group_capab=0x1 vendor_elems=1 new=1 &lt;3&gt;CTRL-EVENT-SCAN-STARTED &lt;3&gt;CTRL-EVENT-SCAN-RESULTS &lt;3&gt;WPS-AP-AVAILABLE-AUTH wlan0: SME: Trying to authenticate with 5c:31:3e:f1:32:61 (SSID='DIRECT-Xo' freq=2412 MHz) &lt;3&gt;SME: Trying to authenticate with 5c:31:3e:f1:32:61 (SSID='DIRECT-Xo' freq=2412 MHz) [ 919.253965] wlan0: authenticate with 5c:31:3e:f1:32:61 [ 919.306772] wlan0: send auth to 5c:31:3e:f1:32:61 (try 1/3) [ 919.327567] wlan0: authenticated wlan0: Trying to associate with 5c:31:3e:f1:32:61 (SSID='DIRECT-Xo' freq=2412 MHz) &lt;3&gt;Trying to associate with 5c:31:3e:f1:3[ 919.342858] wlan0: associate with 5c:31:3e:f1:32:61 (try 1/3) 2:61 (SSID='DIRECT-Xo' freq=2412 MHz) [ 919.371226] wlan0: RX AssocResp from 5c:31:3e:f1:32:61 (capab=0x411 status=0 aid=1) [ 919.397266] wlan0: associated [ 919.400295] IPv6: ADDRCONF(NETDEV_CHANGE): wlan0: link becomes ready wlan0: Associated with 5c:31:3e:f1:32:61 &lt;3&gt;Associated with 5c:31:3e:f1:32:61 wlan0: CTRL-EVENT-EAP-STARTED EAP authentication started &lt;3&gt;CTRL-EVENT-EAP-STARTED EAP authentication started &lt;3&gt;CTRL-EVENT-EAP-STATUS status='started' parameter="" wlan0: CTRL-EVENT-EAP-PROPOSED-METHOD vendor=14122 method=1 &lt;3&gt;CTRL-EVENT-EAP-PROPOSED-METHOD vendor=14122 method=1 &lt;3&gt;CTRL-EVENT-EAP-STATUS status='accept proposed method' parameter='WSC' wlan0: CTRL-EVENT-EAP-METHOD EAP vendor 14122 method 1 (WSC) selected &lt;3&gt;CTRL-EVENT-EAP-METHOD EAP vendor 14122 method 1 (WSC) selected wlan0: WPS-CRED-RECEIVED &lt;3&gt;WPS-CRED-RECEIVED wlan0: WPS-SUCCESS &lt;3&gt;WPS-SUCCESS P2P-GROUP-FORMATION-SUCCESS</pre>

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<3>P2P-GROUP-FORMATION-SUCCESS
<3>CTRL-EVENT-EAP-STATUS stat[ 920.335961] wlan0: deauthenticating from 5c:31:3e:f1:32:61 by local
choice (Reason: 3=DEAUTH_LEAVING)
us='completion' parameter='failure'
wlan0: CTRL-EVENT-EAP-FAILURE EAP authentication failed
<3>CTRL-EVENT-EAP-FAILURE EAP authentication failed
[ 920.436067] cfg80211: Calling CRDA to update world regulatory domain
wlan0: CTRL-EVENT-DISCONNECTED bssid=5c:31:3e:f1:32:61 reason=3 locally_generated=1
<3>CTRL-EVENT-DISCONNECTED bssid=5c:31:3e:f1:32:61 reason=3 locally_gene[ 920.456792] wlan0:
authenticate with 5c:31:3e:f1:32:61
rated=1
wlan0: SME: Trying to authenticate with 5c:31:3e:f1:32:61 (SSID='DIRECT-Xo' freq=2412 MHz)
<3>SME: Trying to authenticate with 5c:31:3e:f1:32:61 (SSID='DIRECT-Xo' freq=2412 MHz)
[ 920.504798] wlan0: send auth to 5c:31:3e:f1:32:61 (try 1/3)
[ 920.516332] cfg80211: World regulatory domain updated:
[ 920.521487] cfg80211: DFS Master region: unset
[ 920.525896] cfg80211: (start_freq - end_freq @ bandwidth), (max_antenna_gain, max_eirp),
(dfs_cac_time)
[ 920.535726] cfg80211: (2402000 KHz - 2472000 KHz @ 40000 KHz), (N/A, 2000 mBm), (N/A)
[ 920.543811] cfg80211: (2457000 KHz - 2482000 KHz @ 40000 KHz), (N/A, 2000 mBm), (N/A)
[ 920.551827] cfg80211: (2474000 KHz - 2494000 KHz @ 20000 KHz), (N/A, 2000 mBm), (N/A)
[ 920.559898] cfg80211: (5170000 KHz - 5250000 KHz @ 80000 KHz, 160000 KHz AUTO), (N/A, 2000 mBm),
(N/A)
[ 920.569439] cfg80211: (5250000 KHz - 5330000 KHz @ 80000 KHz, 160000 KHz AUTO), (N/A, 2000 mBm),
(0 s)
[ 920.578969] cfg80211: (5490000 KHz - 5730000 KHz @ 160000 KHz), (N/A, 2000 mBm), (0 s)
[ 920.587124] cfg80211: (5735000 KHz - 5835000 KHz @ 80000 KHz), (N/A, 2000 mBm), (N/A)
[ 920.595177] cfg80211: (57240000 KHz - 63720000 KHz @ 2160000 KHz), (N/A, 0 mBm), (N/A)
[ 920.604629] wlan0: authenticated
wlan0: CTRL-EVENT-REGDOM-CHANGE init=CORE type=WORLD
<3>CTRL[ 920.612444] wlan0: associate with 5c:31:3e:f1:32:61 (try 1/3)
-EVENT-REGDOM-CHANGE init=CORE type=WORLD
wlan0: Trying to associate with 5c:31:3e:f1:32:61 (SSID='DIRECT-Xo' freq=2412 MHz)
<3>Trying to associate with 5c:31:3e:f1:32:61 (SSID='DIRECT-Xo' freq=2412 MHz)
[ 920.642485] wlan0: RX AssocResp from 5c:31:3e:f1:32:61 (capab=0x411 status=0 aid=1)
[ 920.663423] wlan0: associated
wlan0: Associated with 5c:31:3e:f1:32:61
<3>Associated with 5c:31:3e:f1:32:61
[ 920.679797] wlan0: deauthenticated from 5c:31:3e:f1:32:61 (Reason: 2=PREV_AUTH_NOT_VALID)
wlan0: CTRL-EVENT-DISCONNECTED bssid=5c:31:3e:f1:32:61 reason=2
w[ 920.837675] cfg80211: Calling CRDA to update world regulatory domain
lan0: WPA: 4-Way Handshake failed - pre-shared key may be incorrect
<3>CTRL-EVENT-DISCONNECTED bssid=5c:31:3e:f1:32:61 reason=2
<3>WPA: 4-Way Handshake failed - pre-shared key may be incorrect
[ 920.886135] cfg80211: World regulatory domain updated:
[ 920.891292] cfg80211: DFS Master region: unset
[ 920.895694] cfg80211: (start_freq - end_freq @ bandwidth), (max_antenna_gain, max_eirp),
(dfs_cac_time)
[ 920.905490] cfg80211: (2402000 KHz - 2472000 KHz @ 40000 KHz), (N/A, 2000 mBm), (N/A)
[ 920.913531] cfg80211: (2457000 KHz - 2482000 KHz @ 40000 KHz), (N/A, 2000 mBm), (N/A)
[ 920.921546] cfg80211: (2474000 KHz - 2494000 KHz @ 20000 KHz), (N/A, 2000 mBm), (N/A)
[ 920.929586] cfg80211: (5170000 KHz - 5250000 KHz @ 80000 KHz, 160000 KHz AUTO), (N/A, 2000 mBm),
(N/A)
[ 920.939107] cfg80211: (5250000 KHz - 5330000 KHz @ 80000 KHz, 160000 KHz AUTO), (N/A, 2000 mBm),
(0 s)
```

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[ 920.948628] cfg80211: (5490000 KHz - 5730000 KHz @ 160000 KHz), (N/A, 2000 mBm), (0 s)
[ 920.956753] cfg80211: (5735000 KHz - 5835000 KHz @ 80000 KHz), (N/A, 2000 mBm), (N/A)
[ 920.964791] cfg80211: (57240000 KHz - 63720000 KHz @ 2160000 KHz), (N/A, 0 mBm), (N/A)
wlan0: CTRL-EVENT-REGDOM-CHANGE init=CORE type=WORLD
<3>CTRL-EVENT-REGDOM-CHANGE init=CORE type=WORLD
```

## Restarting a Group

Step #	Mira #1 Commands	Output	Mira #2 Commands	Output
1	p2p_group_remove wlan0	<pre>&gt;&gt; p2p_group_remove wlan0 P2P-GROUP-REMOVED wlan0 GO reason=REQUESTED wlan0: interface state ENABLED-&gt;DISABLED wlan0: AP-DISABLED [ 953.677751] wlcore: down wlan0: CTRL-EVENT-DISCONNECTED bssid=5c:31:3e:f1:32:61 reason=3 locally_generated=1 OK &lt;3&gt;P2P-GROUP-REMOVED wlan0 GO reason=REQUESTED &lt;3&gt;AP-DISABLED &lt;3&gt;CTRL-EVENT-DISCONNECTED bssid=5c:31:3e:f1:32:61 reason=3 locally_generated=1  &gt;&gt;</pre>		
2	p2p_group_add	<pre>&gt;&gt; p2p_group_add OK &gt; [ 961.770522] wlcore: down Using interface wlan0 with hwaddr 5c:31:3e:f1:32:61 and ssid "DIRECT-Cb" wlan0: interface state UNINITIALIZED-&gt;ENABLED wlan0: AP-ENABLED &lt;3&gt;AP-ENABLED wlan0: CTRL-EVENT-CONNECTED - Connection to 5c:31:3e:f1:32:61 completed [id=0 id_str=] &lt;3&gt;CTRL-EVENT-CONNECTED - Connection to 5c:31:3e:f1:32:61 completed [id=0 id_str=] &lt;3&gt;P2P-GROUP-STARTED wlan0 GO ssid="DIRECT-Cb" freq=2412 passphrase="LiXjiWVb" go_dev_addr=5c:31:3e:f1:32:61 P2P-GROUP-STARTED wlan0 GO ssid="DIRECT-Cb" freq=2412 go_dev_addr=5c:31:3e:f1:32:61 &gt;&gt;</pre>		
3	wps_pin any	<pre>&gt;&gt; wps_pin any 38218958</pre>		
4			Try Step #8 again	