

android 10 wifi以太网共存

wifi上局域网，以太网上外网，只能这样，测试同时打开，先打开以太网再打开wifi，或者先打开wifi再打开以太网都可以同时获取IP

wifi测试连接手机热点，笔记本再连接wifi热点测试局域网连接，以太网直接接路由ping外网

补丁

```
diff --git a/service/java/com/android/server/wifi/WifiNetworkFactory.java
b/service/java/com/android/server/wifi/WifiNetworkFactory.java
index 4b5866b..7a1495e 100644
--- a/service/java/com/android/server/wifi/WifiNetworkFactory.java
+++ b/service/java/com/android/server/wifi/WifiNetworkFactory.java
@@ -80,7 +80,7 @@ import java.util.Set;
public class WifiNetworkFactory extends NetworkFactory {
private static final String TAG = "WifiNetworkFactory";
@VisibleForTesting
- private static final int SCORE_FILTER = 60;
+ private static final int SCORE_FILTER = 80;
@VisibleForTesting
public static final int CACHED_SCAN_RESULTS_MAX_AGE_IN_MILLIS = 20 * 1000; // 20
seconds
@VisibleForTesting
```

```
diff --git a/java/com/android/server/ethernet/EthernetNetworkFactory.java
b/java/com/android/server/ethernet/EthernetNetworkFactory.java
index f70e885..8d9f17c 100644
--- a/java/com/android/server/ethernet/EthernetNetworkFactory.java
+++ b/java/com/android/server/ethernet/EthernetNetworkFactory.java
@@ -395,7 +395,7 @@ public class EthernetNetworkFactory extends NetworkFactory {
new TransportInfo(ConnectivityManager.TYPE_BLUETOOTH, 69));
// WifiNetworkFactory.SCORE_FILTER / NetworkAgent.WIFI_BASE_SCORE
sTransports.put(NetworkCapabilities.TRANSPORT_WIFI,
- new TransportInfo(ConnectivityManager.TYPE_WIFI, 60));
+ new TransportInfo(ConnectivityManager.TYPE_WIFI, 80));
// TelephonyNetworkFactory.TELEPHONY_NETWORK_SCORE
sTransports.put(NetworkCapabilities.TRANSPORT_CELLULAR,
new TransportInfo(ConnectivityManager.TYPE_MOBILE, 50));
```

```
diff --git a/services/core/java/com/android/server/ConnectivityService.java
b/services/core/java/com/android/server/ConnectivityService.java
index e5fddef..8758252 100644
--- a/services/core/java/com/android/server/ConnectivityService.java
+++ b/services/core/java/com/android/server/ConnectivityService.java
@@ -238,11 +238,13 @@ public class ConnectivityService extends
IConnectivityManager.Stub
private static final String REQUEST_ARG = "requests";

private static final boolean DBG = true;
- private static final boolean DDBG = Log.isLoggable(TAG, Log.DEBUG);
```

```

- private static final boolean VDBG = Log.isLoggable(TAG, Log.VERBOSE);
+ private static final boolean DDBG = true;//Log.isLoggable(TAG, Log.DEBUG);
+ private static final boolean VDBG = true;//Log.isLoggable(TAG, Log.VERBOSE);

private static final boolean LOGD_BLOCKED_NETWORKINFO = true;

+ private static final boolean ENABLE_NETWORK_COEXIST = true;
+
/**
 * Default URL to use for {@link #getCaptivePortalServerUrl()}. This should not be
 * changed
 * by OEMs for configuration purposes, as this value is overridden by
 * @@ -6108,7 +6110,23 @@ public class ConnectivityService extends
 * IConnectivityManager.Stub
break;
}
}
- nai.asyncChannel.disconnect();
+ if (ENABLE_NETWORK_COEXIST) {
+ log("Skip teardownUnneededNetwork: " + nai.name ());
+ if(nai.getCurrentScore(>0)){
+ try{
+ mNMS.removeInterfaceFromNetwork(nai.linkProperties.getInterfaceName(),
+ nai.network.netId);
+ mNMS.addInterfaceToLocalNetwork(nai.linkProperties.getInterfaceName(),
+ nai.linkProperties.getRoutes());
+ mLegacyTypeTracker.add(nai.networkInfo.getType(),nai);
+ }catch(RemoteException e){
+ Log.e(TAG,"Faied to add iface to local network" + e);
+ }
+ }
+
+ }else{
+ nai.asyncChannel.disconnect();
+ }
}

```

测试

wifi连手机热点，以太网连路由，不在同一个网段测试

```
console:/ # ifconfig
eth0      Link encap:Ethernet  HWaddr 16:18:a6:03:82:98  Driver rk_gmac-dwmac
          inet addr:192.168.1.4  Bcast:192.168.1.255  Mask:255.255.255.0
          inet6 addr: fe80::45b:4fe9:e8fd:5afb/64 Scope: Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:70 errors:0 dropped:0 overruns:0 frame:0
          TX packets:144 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:9282 TX bytes:11881
          Interrupt:27

wlan0     Link encap:Ethernet  HWaddr 10:2c:6b:6a:1d:d2  Driver bcmshd_sdmmc
          inet addr:192.168.43.80  Bcast:192.168.43.255  Mask:255.255.255.0
          inet6 addr: fe80::60d0:be9b:e5ac:2773/64 Scope: Link
          inet6 addr: 240e:47d:32c0:386b:c164:4933:aa5c:ec1d/64 Scope: Global
          inet6 addr: 240e:47d:32c0:386b:d11e:742f:8523:6b56/64 Scope: Global
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:64 errors:0 dropped:0 overruns:0 frame:0
          TX packets:64 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:6806 TX bytes:6318

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope: Host
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:25 errors:0 dropped:0 overruns:0 frame:0
          TX packets:25 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:2440 TX bytes:2440

console:/ # ping -I wlan0 192.168.43.35
PING 192.168.43.35 (192.168.43.35) from 192.168.43.80 wlan0: 56(84) bytes of data.
64 bytes from 192.168.43.35: icmp_seq=1 ttl=128 time=18.4 ms
64 bytes from 192.168.43.35: icmp_seq=2 ttl=128 time=21.3 ms
64 bytes from 192.168.43.35: icmp_seq=3 ttl=128 time=17.8 ms
64 bytes from 192.168.43.35: icmp_seq=4 ttl=128 time=23.1 ms
64 bytes from 192.168.43.35: icmp_seq=5 ttl=128 time=16.3 ms
^C
--- 192.168.43.35 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4008ms
rtt min/avg/max/mdev = 16.381/19.438/23.164/2.457 ms
console:/ # ping -I eth0 www.baidu.com
PING www.a.shifen.com (14.215.177.39) from 192.168.1.4 eth0: 56(84) bytes of data.
64 bytes from 14.215.177.39: icmp_seq=1 ttl=54 time=6.98 ms
64 bytes from 14.215.177.39: icmp_seq=2 ttl=54 time=7.59 ms
64 bytes from 14.215.177.39: icmp_seq=3 ttl=54 time=7.66 ms
64 bytes from 14.215.177.39: icmp_seq=4 ttl=54 time=8.45 ms
^C
2|console:/ # ping 192.168.43.35
PING 192.168.43.35 (192.168.43.35) 56(84) bytes of data.
64 bytes from 192.168.43.35: icmp_seq=1 ttl=128 time=19.2 ms
64 bytes from 192.168.43.35: icmp_seq=2 ttl=128 time=19.1 ms
64 bytes from 192.168.43.35: icmp_seq=3 ttl=128 time=18.5 ms
64 bytes from 192.168.43.35: icmp_seq=4 ttl=128 time=17.0 ms
^C
--- 192.168.43.35 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3006ms
rtt min/avg/max/mdev = 17.051/18.520/19.292/0.888 ms
console:/ # ping www.baidu.com
PING www.a.shifen.com (14.215.177.39) 56(84) bytes of data.
64 bytes from 14.215.177.39: icmp_seq=1 ttl=54 time=8.68 ms
64 bytes from 14.215.177.39: icmp_seq=2 ttl=54 time=8.82 ms
64 bytes from 14.215.177.39: icmp_seq=3 ttl=54 time=7.72 ms
64 bytes from 14.215.177.39: icmp_seq=4 ttl=54 time=8.92 ms
^C
rtt min/avg/max/mdev = 7.729/8.540/8.921/0.485 ms
console:/ # ip ru
0:      from all lookup local
10000:  from all fwmark 0xc0000/0xd0000 lookup legacy_system
10500:  from all iif lo oif wlan0 uidrange 0-0 lookup local_network
10500:  from all iif lo oif eth0 uidrange 0-0 lookup eth0
13000:  from all fwmark 0x10063/0x1ffff iif lo lookup local_network
13000:  from all fwmark 0x1006f/0x1ffff iif lo lookup eth0
14000:  from all iif lo oif wlan0 lookup local_network
14000:  from all iif lo oif eth0 lookup eth0
15000:  from all fwmark 0x0/0x10000 lookup legacy_system
16000:  from all fwmark 0x0/0x10000 lookup legacy_network
```

```
17000: from all fwmark 0x0/0x10000 lookup local_network
19000: from all fwmark 0x6f/0x1ffff iif lo lookup eth0
22000: from all fwmark 0x0/0xffff iif lo lookup eth0
23000: from all fwmark 0x0/0xffff uidrange 0-0 lookup main
32000: from all unreachable
console:/ # ip ro
192.168.1.0/24 dev eth0 proto kernel scope link src 192.168.1.4
192.168.43.0/24 dev wlan0 proto kernel scope link src 192.168.43.80
```