Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method for active scanning ~~in a network comprising two transmitters~~ of a scanning target for use in a first station (STA), the method comprising:

~~detecting~~ generating a first probe request ~~having a scanning target originating from a first transmitter~~ by the first STA, wherein the first probe request includes an indication of the scanning target;

~~desiring to send a probe request to the scanning target from a second transmitter; and~~

while waiting to access a wireless medium to transmit the first probe request, detecting at the first STA a second probe request from a second STA, wherein the second probe request includes an indication of a same scanning target; and

~~canceling the second probe request~~ on a condition that the second ~~transmitter detects the first~~ probe request indicates the same scanning target, determining to not transmit the first probe request by the first STA to the scanning target.

2. (currently amended) The method of claim 1, wherein the detecting requires that a relative received signal strength indicator (RSSI) of the ~~first~~ second probe request ~~frame~~ is ~~no less than~~ above a pre-defined threshold.

3. (currently amended) The method of claim 1, wherein ~~the probe request is transmitted by first station, and a probe response is sent in response to the first probe request, from~~ the scanning target comprises an access point.

4. (currently amended) The method of claim 1, ~~wherein~~ further comprising: ~~an SME~~

~~generates a MLME-Scan-STOP.request primitive with an indication to stop~~ stopping active scanning of a current channel, on a condition that the ~~first~~ second probe request is detected by the ~~second transmitter~~ first STA.

5. (currently amended) The method of claim 1, further comprising:

~~sending~~ transmitting the first probe request to the scanning target from the ~~second transmitter~~ first STA on a condition that the ~~second transmitter~~ first STA does not detect the ~~first~~ second probe request with [[a]] the same scanning target.

6. (currently amended) A method for active scanning ~~in a network comprising two transmitters~~ of a scanning target for use in a first station (STA), the method comprising:

~~sending~~ generating a first probe request ~~having a scanning target from a first transmitter~~ by the first STA, wherein the first probe request includes an indication of the scanning target;

~~desiring to send a second probe request to the scanning target from a second transmitter;~~

~~detecting a probe response to the first probe request;~~

~~canceling a probe request from the second transmitter on a condition that the second transmitter detects the probe response~~

while waiting to access a wireless medium to transmit the first probe request, receiving a probe response, wherein the probe response is responsive to a second probe request associated with a second STA; and

on a condition that the probe response includes an indication of a same scanning target, not transmitting the first probe request by the first STA to the scanning target.

7. (canceled).

8. (canceled).

9. (currently amended) The method of claim 6, wherein ~~the probe request is transmitted by first station and the detection takes place at a second station, and the probe response is sent by~~ the scanning target comprises an access point.

10. (currently amended) The method of claim 6, ~~wherein~~ further comprising:

~~an SME generates a MLME-Scan-STOP.request primitive with an indication to stop~~ stopping active scanning of ~~a current channel~~ the scanning target, on a condition that the probe response ~~to the first probe request is sent~~ is received by the first STA.

11. (currently amended) The method of claim 6, further comprising:

~~sending~~ transmitting the ~~second~~ first probe request to the scanning target on a condition that the ~~second transmitter~~ first STA does not ~~detect~~ receive the probe response with [[a]] [the] same scanning target.

12-20. (canceled)

21. (new) The method of claim 1, further comprising:

on a condition that it is determined to not transmit the first probe request, performing the method for active scanning on a next channel for a predetermined time period.

22. (new) The method of claim 1, further comprising:

receiving, at the first STA, a probe response in response to the second probe request; and

stopping active scanning of the scanning target.

23. (new) The method of claim 10, wherein stopping active scanning of the scanning target, includes:

generating a MLME-SCAN.confirm primitive, wherein the MLME-SCAN.confirm primitive includes a BSSDescriptionSet containing information of the scanning target.

24. (new) The method of claim 1, wherein the first probe request includes information of other channels.

25. (new) The method of claim 22, wherein the probe response includes information of other channels.

26. (new) The method of claim 6, wherein the probe response includes information of other channels.