

**Amendments to the Claims:**

Amend the claims as follows.

1-21. (Canceled)

22. (Currently amended) A multi-spectrum network that provides management of ~~channel selection~~ resource allocation, the multi-spectrum network comprising:

~~a home evolved Node B (HeNB) configured to transmit a spectrum allocation request;~~

~~an HeNB management system (HeMS)~~ a coexistence manager configured to ~~evaluate~~ receive the spectrum a resource allocation request; and

~~a coexistence database configured to check for~~ store information regarding available ~~channels~~ resources across multiple networks and retrieve ~~channel resource~~ usage data for the available channels across the multiple networks ~~based on the spectrum allocation request;~~

wherein the HeMS coexistence manager is further configured to ~~receive the channel usage data from the coexistence database and transmit the channel usage data to the HeNB~~ solve coexistence conflicts by examining available resources stored in the database and assist in selecting the resource allocation based on the

request and the stored available resource information; and

~~— wherein the HeNB is further configured to select a channel based on the channel usage data.~~

23. (New) A method of managing resource allocation in a dynamic spectrum management network comprising:
- evaluating a resource allocation request at a coexistence manager;
  - storing information regarding available resources across multiple networks;
  - retrieving resource usage data for the available resources across the multiple networks;
  - solving coexistence conflicts by examining available resources stored in the database; and
  - assisting in selecting the resource allocation based on the request and the stored available resource information.

24. (New) The method of claim 23, wherein the resource allocation request is a spectrum allocation request.

25. (New) The method of claim 23, wherein the coexistence manager is located within a base station management system.

26. (New) The method of claim 23, wherein the coexistence manager checks the information stored regarding available channels based on a geographical location.

27. (New) The method of claim 23, wherein the coexistence manager prepares a ranked resource candidate list.