

Amendments to the Claims:

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

1. (Currently amended) A method ~~of for~~ managing channel selection in a dynamic spectrum management network, ~~the method comprising the steps of:~~
receiving a spectrum allocation request from a base station;
based on the ~~source of the~~ spectrum allocation request, checking for available channels; ~~based on the source of the spectrum allocation request, collecting sensing and~~ retrieving channel usage data for the available channels from a coexistence database;
providing the channel usage data to the base station ~~an entity that transmitted the spectrum allocation request;~~ and
selecting a channel by the base station based on the channel usage data.
2. (Currently amended) The method of claim 1, wherein the spectrum allocation request is received at a coexistence manager (CM) ~~wireless transmit and receive unit (WTRU).~~
3. (Currently amended) The method of claim 2, wherein the ~~spectrum allocation request is received by a coexistence manager (CM)~~ CM is located within a base station management system ~~the WTRU.~~
4. (Currently amended) The method of claim 3, wherein the CM checks the coexistence ~~checks a~~ database for a list of the available channels based on a

geographical location.

5. (Currently amended) The method of claim 1, further comprising providing a ranked channel candidate list to the base station entity ~~that transmitted the spectrum allocation request.~~

Claims 6-7 (Canceled)

8. (Currently amended) The method of claim 2 ~~claim 7~~, wherein the base station HeNB informs the CM regarding the channel selected by the base station selection.

9. (Currently amended) The method of claim 1 ~~claim 6~~, further comprising registering the base station HeNB to a database of spectrum users.

Claims 10-20 (Canceled)

21. (New) The method of claim 1, wherein the base station is a home evolved Node-B (HeNB).

22. (New) A multi-spectrum network that provides management of channel selection, the multi-spectrum network comprising:

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

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an HeNB management system (HeMS) configured to receive the spectrum allocation request; and

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

wherein the HeMS is further configured to receive the channel usage data from the coexistence database and transmit the channel usage data to the HeNB; and

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