

U.S. Patent No. RE 48,089 Claim Listing

No.	Limitation
1[p]	An automatic coverage assessment system configured for generating a coverage assessment for a second wireless access network of a telecommunications infrastructure comprising a first wireless access network and the second wireless access network, the first and second wireless access networks capable of providing services to a plurality of terminals, the system comprising:
1[a]	an information collector; and
1[b]	a coverage estimator,
1[a][i]	wherein the information collector is configured to: (i) select one or more terminals from at least part of the plurality of the terminals, the at least part of the plurality of the terminals capable of communicating with both the first wireless access network and the second wireless access network,
1[a][ii]	(ii) instruct the selected one or more terminals to measure signals from the second wireless access network,
1[a][iii]	(iii) obtain measurement information indicative of the signals measured from the second wireless access network by the selected one or more terminals, and
1[a][iv]	(iv) provide the measurement information to the coverage estimator, and
1[b][i]	wherein the coverage estimator is configured to: (i) obtain measurement information from the information collector, and
1[b][ii]	(ii) based on the obtained measurement information, generate the coverage assessment for the second wireless access network of the telecommunications infrastructure.
2	The automatic coverage assessment system of claim 1, wherein the system further comprises a trigger configured for triggering the information collector to select the one or more terminals.

3	The automatic coverage assessment system of claim 1, wherein the information collector is further configured to obtain location information for at least one of the at least part of the plurality of terminals prior to selecting the one or more terminals.
4[p]	The automatic coverage assessment system of claim 3,
4[a]	wherein the information collector is further configured to associate the location information with at least one of the selected one or more terminals and
4[b]	provide the location information associated with the at least one of the selected one or more terminals to the coverage estimator.
5	The automatic coverage assessment system of claim 1, wherein the information collector is further configured to provide location information valid upon obtaining the measurement information for at least one of the selected one or more terminals.
11[p]	A mobile user terminal configured for use in an automatic coverage assessment method for generating a coverage assessment for a second wireless access network of a telecommunications infrastructure, the telecommunications infrastructure comprising a first wireless access network and the second wireless access network, wherein the first and second wireless access networks are capable of providing services to a plurality of terminals, and wherein the mobile user terminal comprises:
11[a]	means for measuring signals from the second wireless access network; and
11[b]	means for providing the measurement information to at least one of an information collector or a coverage estimator based on the measured signals,
11[c]	wherein the mobile user terminal is further configured to: receive an instruction from the information collector to measure signals,
11[d]	wherein the information collector carries out operations including collecting information from terminals by:

11[d][i]	selecting one or more terminals from at least part of the plurality of the terminals, the at least part of the plurality of the terminals capable of communicating with both the first wireless access network and the second wireless access network,
11[d][ii]	instructing the selected one or more terminals to measure signals from the second wireless access network,
11[d][iii]	obtaining measurement information indicative of the signals measured from the second wireless access network by the selected one or more terminals, and
11[d][iv]	providing the measurement information to a coverage estimator; and
11[e]	measure signals from the second wireless access network;
11[f]	wherein the coverage estimator carries out operations including generating the coverage assessment for the second wireless access network by:
11[f][i]	obtaining the measurement information from the information collector, and
11[f][ii]	based on the obtained measurement information, generating the coverage assessment for the second wireless access network of the telecommunications infrastructure.
13[p]	A network node for use in a telecommunications infrastructure comprising a first wireless access network and a second wireless access network, the first and second wireless access networks capable of providing services to a plurality of terminals, the node comprising:
13[a]	means for selecting one or more terminals from at least part of the plurality of the terminals, the at least part of the plurality of the terminals capable of communicating with both the first wireless access network and the second wireless access network;

13[b]	means for instructing the selected one or more terminals to measure signals from the second wireless access network,
13[c]	means for obtaining measurement information indicative of the signals measured from the second wireless access network by the selected one or more terminals; and
13[d]	means for providing the measurement information to a coverage estimator,
13[e]	wherein the coverage estimator is configured to generate the coverage assessment for the second wireless access network of the telecommunications infrastructure based on the measurement information provided by the network node.
14	The network node of claim 13, wherein the coverage estimator is included within the network node.
15[p]	A network node for use in a telecommunications infrastructure comprising a first wireless access network and a second wireless access network, the first and second wireless access networks capable of providing services to a plurality of terminals, the node comprising:
15[a]	means for obtaining measurement information from an information collector; and
15[b]	means for generating the coverage assessment for the second wireless access network of the telecommunications infrastructure based on the obtained measurement information,
15[c][i]	wherein the information collector is configured to: (i) select one or more terminals from at least part of the plurality of the terminals, the at least part of the plurality of the terminals capable of communicating with both the first wireless access network and the second wireless access network,
15[c][ii]	(ii) instruct the selected one or more terminals to measure signals from the second wireless access network,

15c][iii]	(iii) obtain measurement information indicative of the signals measured from the second wireless access network by the selected one or more terminals, and
15[c][iv]	(iv) provide the measurement information to the network node.