

CLAIMS

1. A method of inter-node transfer in a wireless communication system, comprising:
receiving, by a target base station from a source base station, measurement report information associated with a mobile device;
processing, by the target base station, the measurement report information; and
determining, by the target base station, a handover decision concerning the mobile device based at least in part on the measurement report information.
2. The method of claim 1, further comprising processing additional information included in the measurement report information to facilitate generating a handover complete indicator in the wireless communication system.
3. The method of claim 2, wherein the additional information includes a radio resource control (RRC) transaction identifier.
4. The method of claim 1, further comprising transmitting a handover command to the mobile device, by the target base station, the handover command includes supplemental information to facilitate generating the handover complete indicator in the wireless communication system.
5. The method of claim 4, wherein the handover command is transmitted by the target base station through the source base station.
6. The method of claim 1, further comprising:
receiving a measurement report of the mobile device in an encapsulated message from the source base station; and
obtaining the measurement report information from the encapsulated message.
7. A method of inter-node transfer in a wireless communication system, comprising:
receiving, by a source base station, a measurement report from a mobile device;

sending measurement information associated with the measurement report to a target base station prior to a handover of the mobile device from the source base station to the target base station;

receiving, by the source base station, a handover command message created by the target base station;

encapsulating the handover command message into a radio resource control (RRC) message; and

transmitting the encapsulated handover command message to the mobile device.

8 The method of claim 7, further comprising:

encapsulating, by the source base station, the measurement information into an inter-node message; and

transmitting, by the source base station, the inter-node message comprising the measurement information to a target base station.

9. The method of claim 7, wherein the measurement report information includes additional information to facilitate generating a handover complete indicator in the wireless communication system.

10. The method of claim 9, wherein the additional information includes a radio resource control (RRC) transaction identifier.

11. The method of claim 7, further comprising enciphering the RRC message based on a pre-existing security association between the source base station and the mobile device.

12. The method of claim 7, wherein a protocol version of the target base station is different from a protocol version of the source base station.

13. The method of claim 7, wherein the handover command comprises a new radio configuration of the mobile device.

14. A method of inter-node transfer in a wireless communication system, comprising:
generating, by a mobile device, a measurement report based on measurements of
available channel properties;

transmitting, by the mobile device, the measurement report to a source base station; and
receiving, from the source base station, an encapsulated message comprising a handover
command, wherein the handover command originates from a target base station

15. The method of claim 14, further comprising processing, by the mobile device,
supplemental information included in the encapsulated handover command message to facilitate
generating a handover complete indicator in the wireless communication system.

16. The method of claim 14, further comprising appending additional information to
the measurement report to facilitate generating a handover complete indicator in the wireless
communication system.

17. The method of claim 14, further comprising deciphering the encapsulated
handover command message based on a pre-existing security relation between the mobile device
associated with the handover command and the source base station.

18. An apparatus of inter-node transfer in a wireless communication system,
comprising:

means for receiving, by a target base station from a source base station, measurement
report information associated with a mobile device;

means for processing, by the target base station, the measurement report information; and
means for determining, by the target base station, a handover decision concerning the
mobile device based at least in part on the measurement report information.

19. The apparatus of claim 18, further comprising means for processing additional
information included in the measurement report information to facilitate generating a handover
complete indicator in the wireless communication system.

20. The apparatus of claim 19, wherein the additional information includes a radio resource control (RRC) transaction identifier.

21. The apparatus of claim 18, further comprising means for transmitting a handover command to the mobile device, by the target base station, the handover command includes supplemental information to facilitate generating the handover complete indicator in the wireless communication system.

22. The apparatus of claim 21, wherein the handover command is transmitted by the target base station through the source base station.

23. The apparatus of claim 18, further comprising:
means for receiving a measurement report of the mobile device in an encapsulated message from the source base station; and
means for obtaining the measurement report information from the encapsulated message.

24. An apparatus configured for inter-node transfer in a wireless communication system, comprising:
means for receiving, by a source base station, a measurement report from a mobile device;
means for sending measurement information associated with the measurement report to a target base station prior to a handover of the mobile device from the source base station to the target base station;
means for receiving, by the source base station, a handover command message created by the target base station;
means for encapsulating the handover command message into a radio resource control (RRC) message; and
means for transmitting the encapsulated handover command message to the mobile device.

25. The apparatus of claim 24, further comprising:

means for encapsulating, by the source base station, the measurement information into an inter-node message; and

means for transmitting, by the source base station, the inter-node message comprising the measurement information to a target base station.

26. The apparatus of claim 24, wherein the measurement report information includes additional information to facilitate generating a handover complete indicator in the wireless communication system.

27. The apparatus of claim 26, wherein the additional information includes a radio resource control (RRC) transaction identifier.

28. The apparatus of claim 24, further comprising means for enciphering the RRC message based on a pre-existing security association between the source base station and the mobile device.

29. The apparatus of claim 24, wherein a protocol version of the target base station is different from a protocol version of the source base station.

30. The apparatus of claim 24, wherein the handover command comprises a new radio configuration of the mobile device.

31. An apparatus configured for inter-node transfer in a wireless communication system, comprising:

means for generating, by a mobile device, a measurement report based on measurements of available channel properties;

means for transmitting, by the mobile device, the measurement report to a source base station; and

means for receiving, from the source base station, an encapsulated message comprising a handover command, wherein the handover command originates from a target base station.

32. The apparatus of claim 31, further comprising means for processing, by the mobile device, supplemental information included in the encapsulated handover command message to facilitate generating a handover complete indicator in the wireless communication system.

33. The apparatus of claim 31, further comprising means for appending additional information to the measurement report to facilitate generating a handover complete indicator in the wireless communication system.

34. The apparatus of claim 31, further comprising means for deciphering the encapsulated handover command message based on a pre-existing security relation between the mobile device associated with the handover command and the source base station.

35. A computer-readable medium having computer-executable instructions stored thereon comprising:

instructions for receiving, by a target base station from a source base station, measurement report information associated with a mobile device;

instructions for processing, by the target base station, the measurement report information; and

instructions for determining, by the target base station, a handover decision concerning the mobile device based at least in part on the measurement report information.

36. The computer-readable medium of claim 35, further comprising instructions for processing additional information included in the measurement report information to facilitate generating a handover complete indicator in the wireless communication system.

37. The computer-readable medium of claim 36, wherein the additional information includes a radio resource control (RRC) transaction identifier.

38. The computer-readable medium of claim 35, further comprising instructions for transmitting a handover command to the mobile device, by the target base station, the handover

command includes supplemental information to facilitate generating the handover complete indicator in the wireless communication system.

39. The computer-readable medium of 38, wherein the handover command is transmitted by the target base station through the source base station.

40. The computer-readable medium of claim 35, further comprising:
instructions for receiving a measurement report of the mobile device in an encapsulated message from the source base station; and
instructions for obtaining the measurement report information from the encapsulated message.

41. A computer-readable medium having computer-executable instructions stored thereon comprising:
instructions for receiving, by a source base station, a measurement report from a mobile device;
instructions for sending measurement information associated with the measurement report to a target base station prior to a handover of the mobile device from the source base station to the target base station;
instructions for receiving, by the source base station, a handover command message created by the target base station;
instructions for encapsulating the handover command message into a radio resource control (RRC) message; and
instructions for transmitting the encapsulated handover command message to the mobile device.

42. The computer-readable medium of claim 41, further comprising:
instructions for encapsulating, by the source base station, the measurement information into an inter-node message; and
instructions for transmitting, by the source base station, the inter-node message comprising the measurement information to a target base station.

43. The computer-readable medium of claim 41, wherein the measurement report information includes additional information to facilitate generating a handover complete indicator in the wireless communication system.

44. The computer-readable medium of claim 43, wherein the additional information includes a radio resource control (RRC) transaction identifier.

45. The computer-readable medium of claim 41, further comprising instructions for enciphering the RRC message based on a pre-existing security association between the source base station and the mobile device.

46. The computer-readable medium of claim 41, wherein a protocol version of the target base station is different from a protocol version of the source base station.

47. The computer-readable medium of claim 41, wherein the handover command comprises a new radio configuration of the mobile device.

48. A computer-readable medium having computer-executable instructions stored thereon comprising:

instructions for generating, by a mobile device, a measurement report based on measurements of available channel properties;

instructions for transmitting, by the mobile device, the measurement report to a source base station; and

instructions for receiving, from the source base station, an encapsulated message comprising a handover command, wherein the handover command originates from a target base station.

49. The computer-readable medium of claim 48, further comprising instructions for processing, by the mobile device, supplemental information included in the encapsulated

handover command message to facilitate generating a handover complete indicator in the wireless communication system.

50. The computer-readable medium of claim 48, further comprising instructions for appending additional information to the measurement report to facilitate generating a handover complete indicator in the wireless communication system.

51. The computer-readable medium of claim 48, further comprising instructions for deciphering the encapsulated handover command message based on a pre-existing security relation between the mobile device associated with the handover command and the source base station.

52. In a wireless communication system, an apparatus comprising:
a processor configured to:
 receive, by a target base station from a source base station, measurement report information associated with a mobile device;
 process, by the target base station, the measurement report information; and
 determine, by the target base station, a handover decision concerning the mobile device based at least in part on the measurement report information.

53. The apparatus of claim 52, further comprising the processor configured to process additional information included in the measurement report information to facilitate generating a handover complete indicator in the wireless communication system.

54. The apparatus of claim 53, wherein the additional information includes a radio resource control (RRC) transaction identifier.

55. The apparatus of claim 52, further comprising the processor configured to transmit a handover command to the mobile device, by the target base station, the handover command includes supplemental information to facilitate generating the handover complete indicator in the wireless communication system.

56. The apparatus of 55, wherein the handover command is transmitted by the target base station through the source base station.

57. The apparatus of claim 52, further comprising the processor configured to:
receive a measurement report of the mobile device in an encapsulated message from the source base station; and
obtain the measurement report information from the encapsulated message.

58. In a wireless communication system, an apparatus comprising:
a processor configured to:
receive, by a source base station, a measurement report from a mobile device;
send measurement information associated with the measurement report to a target base station prior to a handover of the mobile device from the source base station to the target base station;
receive, by the source base station, a handover command message created by the target base station;
encapsulate the handover command message into a radio resource control (RRC) message; and
transmit the encapsulated handover command message to the mobile device.

59. The apparatus of claim 58, further comprising the processor configured to:
encapsulate, by the source base station, the measurement information into an inter-node message; and
transmit, by the source base station, the inter-node message comprising the measurement information to a target base station.

60. The apparatus of claim 58, wherein the measurement report information includes additional information to facilitate generating a handover complete indicator in the wireless communication system.

61. The apparatus of claim 60, wherein the additional information includes a radio resource control (RRC) transaction identifier.

62. The apparatus of claim 58, further comprising the processor configured to encipher the RRC message based on a pre-existing security association between the source base station and the mobile device.

63. The apparatus of claim 58, wherein a protocol version of the target base station is different from a protocol version of the source base station.

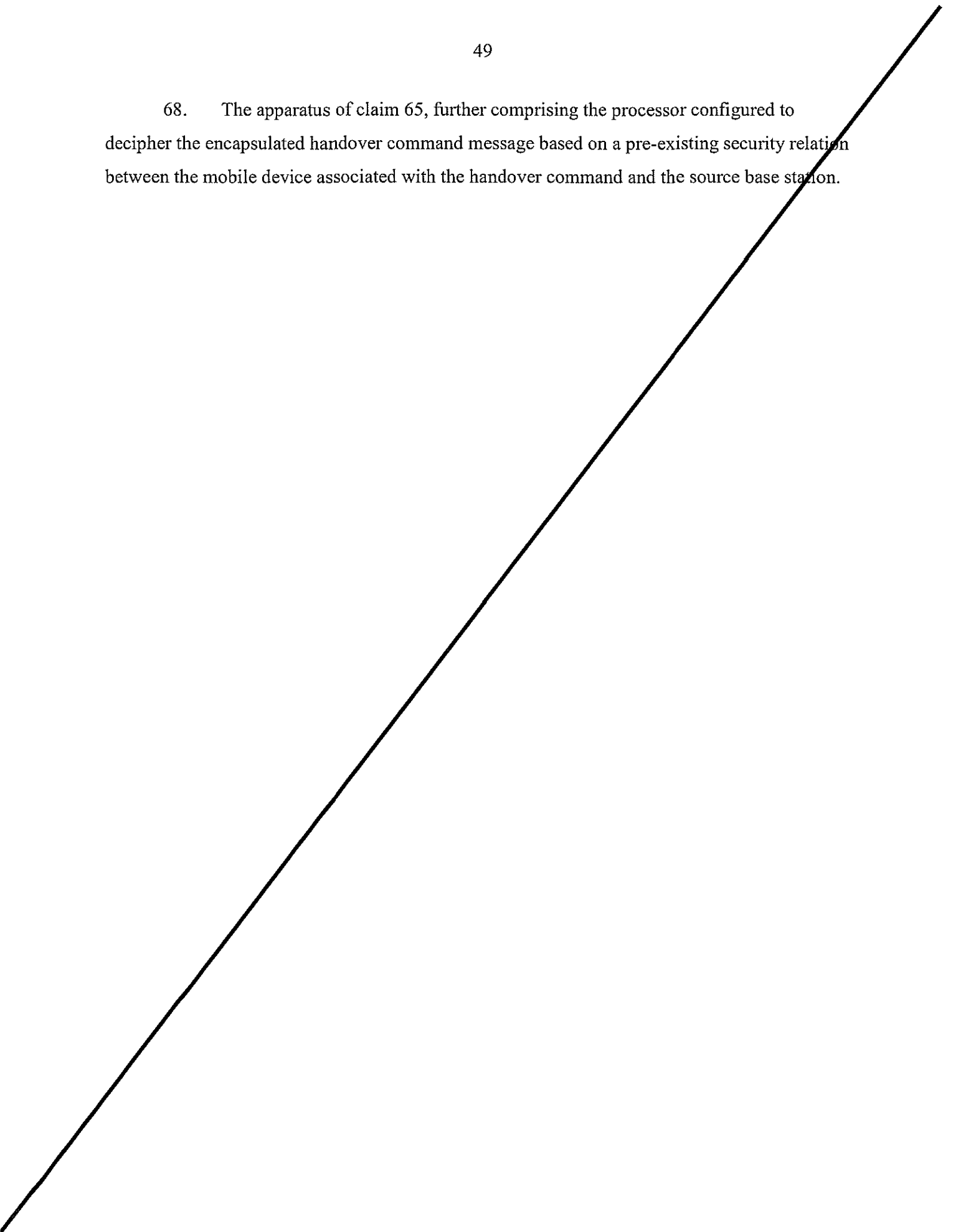
64. The apparatus of claim 58, wherein the handover command comprises a new radio configuration of the mobile device.

65. In a wireless communication system, an apparatus comprising:
a processor configured to:
generate, by a mobile device, a measurement report based on measurements of available channel properties;
transmit, by the mobile device, the measurement report to a source base station;
and
receive, from the source base station, an encapsulated message comprising a handover command, wherein the handover command originates from a target base station.

66. The apparatus of claim 65, further comprising the processor configured to process, by the mobile device, supplemental information included in the encapsulated handover command message to facilitate generating a handover complete indicator in the wireless communication system.

67. The apparatus of claim 65, further comprising the processor configured to append additional information to the measurement report to facilitate generating a handover complete indicator in the wireless communication system.

68. The apparatus of claim 65, further comprising the processor configured to decipher the encapsulated handover command message based on a pre-existing security relation between the mobile device associated with the handover command and the source base station.



THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A method of inter-node transfer in a wireless communication system, comprising:
receiving, by a target base station from a source base station, measurement report information associated with a mobile device;
processing, by the target base station, the measurement report information; and
determining, by the target base station, a handover decision concerning the mobile device based at least in part on the measurement report information.
2. The method of claim 1, further comprising processing additional information included in the measurement report information to facilitate generating a handover complete indicator in the wireless communication system.
3. The method of claim 1, further comprising transmitting a handover command to the mobile device, by the target base station, the handover command includes supplemental information to facilitate generating the handover complete indicator in the wireless communication system.
4. The method of claim 3, wherein the handover command is transmitted by the target base station through the source base station.
5. The method of claim 1, further comprising:
receiving a measurement report of the mobile device in an encapsulated message from the source base station; and
obtaining the measurement report information from the encapsulated message.
6. A method of inter-node transfer in a wireless communication system, comprising:
receiving, by a source base station, a measurement report from a mobile device;
sending measurement information associated with the measurement report to a target base station prior to a handover of the mobile device from the source base station to the target base station;
receiving, by the source base station, a handover command message created by the target base station;
encapsulating the handover command message into a radio resource control (RRC) message;
and
transmitting the encapsulated handover command message to the mobile device.

7. The method of claim 6, further comprising:
encapsulating, by the source base station, the measurement information into an inter-node message; and
transmitting, by the source base station, the inter-node message comprising the measurement information to a target base station.
8. The method of claim 6, wherein the measurement report information includes additional information to facilitate generating a handover complete indicator in the wireless communication system.
9. The method of claim 6, further comprising enciphering the RRC message based on a pre-existing security association between the source base station and the mobile device.
10. The method of claim 6, wherein the handover command comprises a new radio configuration of the mobile device.
11. A method of inter-node transfer in a wireless communication system, comprising:
transmitting, by a mobile device, a measurement report to a source base station; and
receiving, from the source base station, an encapsulated message comprising a handover command, wherein the handover command originates from a target base station.
12. The method of claim 11, further comprising processing, by the mobile device, supplemental information included in the encapsulated handover command message to facilitate generating a handover complete indicator in the wireless communication system.
13. The method of claim 11, further comprising appending additional information to the measurement report to facilitate generating a handover complete indicator in the wireless communication system.
14. The method of claim 11, further comprising deciphering the encapsulated handover command message based on a pre-existing security relation between the mobile device associated with the handover command and the source base station.
15. An apparatus of inter-node transfer in a wireless communication system, comprising:
means for receiving, by a target base station from a source base station, measurement report information associated with a mobile device;
means for processing, by the target base station, the measurement report information; and

means for determining, by the target base station, a handover decision concerning the mobile device based at least in part on the measurement report information.

16. The apparatus of claim 15, further comprising means for processing additional information included in the measurement report information to facilitate generating a handover complete indicator in the wireless communication system.

17. The apparatus of claim 15, further comprising means for transmitting a handover command to the mobile device, by the target base station, the handover command includes supplemental information to facilitate generating the handover complete indicator in the wireless communication system.

18. The apparatus of claim 17, wherein the handover command is transmitted by the target base station through the source base station.

19. The apparatus of claim 15, further comprising:
means for receiving a measurement report of the mobile device in an encapsulated message from the source base station; and
means for obtaining the measurement report information from the encapsulated message.

20. An apparatus configured for inter-node transfer in a wireless communication system, comprising:

means for receiving, by a source base station, a measurement report from a mobile device;
means for sending measurement information associated with the measurement report to a target base station prior to a handover of the mobile device from the source base station to the target base station;
means for receiving, by the source base station, a handover command message created by the target base station;
means for encapsulating the handover command message into a radio resource control (RRC) message; and
means for transmitting the encapsulated handover command message to the mobile device.

21. The apparatus of claim 20, further comprising:
means for encapsulating, by the source base station, the measurement information into an inter-node message; and
means for transmitting, by the source base station, the inter-node message comprising the measurement information to a target base station.

22. The apparatus of claim 20, wherein the measurement report information includes additional information to facilitate generating a handover complete indicator in the wireless communication system.

23. The apparatus of claim 20, further comprising means for enciphering the RRC message based on a pre-existing security association between the source base station and the mobile device.

24. The apparatus of claim 20, wherein the handover command comprises a new radio configuration of the mobile device.

25. An apparatus configured for inter-node transfer in a wireless communication system, comprising:
means for transmitting, by a mobile device, a measurement report to a source base station; and
means for receiving, from the source base station, an encapsulated message comprising a handover command, wherein the handover command originates from a target base station.

26. The apparatus of claim 25, further comprising means for processing, by the mobile device, supplemental information included in the encapsulated handover command message to facilitate generating a handover complete indicator in the wireless communication system.

27. The apparatus of claim 25, further comprising means for appending additional information to the measurement report to facilitate generating a handover complete indicator in the wireless communication system.

28. The apparatus of claim 25, further comprising means for deciphering the encapsulated handover command message based on a pre-existing security relation between the mobile device associated with the handover command and the source base station.

29. A computer-readable medium having computer-executable instructions stored thereon comprising:

instructions for receiving, by a target base station from a source base station, measurement report information associated with a mobile device;

instructions for processing, by the target base station, the measurement report information; and

instructions for determining, by the target base station, a handover decision concerning the mobile device based at least in part on the measurement report information.

30. A computer-readable medium having computer-executable instructions stored thereon comprising:

instructions for receiving, by a source base station, a measurement report from a mobile device;

instructions for sending measurement information associated with the measurement report to a target base station prior to a handover of the mobile device from the source base station to the target base station;

instructions for receiving, by the source base station, a handover command message created by the target base station;

instructions for encapsulating the handover command message into a radio resource control (RRC) message; and

instructions for transmitting the encapsulated handover command message to the mobile device.

31. A computer-readable medium having computer-executable instructions stored thereon comprising:

instructions for transmitting, by a mobile device, a measurement report to a source base station; and

instructions for receiving, from the source base station, an encapsulated message comprising a handover command, wherein the handover command originates from a target base station.