CLAIMS

1. A method implemented for wireless communications between a wireless transmit receive unit (WTRU) and a target evolved Node B (eNB), the method comprising:

detecting a communications failure;

transmitting a WTRU identity and a source cell identity to the target eNB in response to the detected communications failure; and

receiving an indication from the target eNB that allows a connection to be resumed by the WTRU.

2. The method of claim 1, comprising conducting cell reselection for selecting the target eNB.

3. The method of claim 2, comprising selecting an eNB as the target eNB based on the source cell identity.

4. The method of claim 3, wherein the source cell identity is associated with a source cell and a source eNB and conducting cell reselection comprises:

attempting to reselect to the source cell; and

attempting to select a second cell associated with the source eNB on a condition that the source cell is not available for selection.

5. The method of claim 4, comprising:

attempting to select a third cell associated with a different eNB on a condition that no cells associated with the source eNB are available for selection.

6. The method of claim 1, comprising storing context information prior to the detected communications failure.

7. The method of claim 1, wherein the communications failure is at least one of a radio link (RL) failure or a handover (HO) failure.

8. The method of claim 1, wherein the indication from the target eNB is based on the WTRU identity matching a context.

9. The method of claim 1 wherein the transmitting the WTRU identity and source cell identity is performed within a random access channel (RACH) procedure.

10. The method of claim 9 wherein the transmitting comprises transmitting the WTRU identity and source cell identity in an RRC Connection Request.

11. The method of claim 9 wherein the transmitting comprises transmitting the WTRU identity and source cell identity in an Cell Update message.

12. The method of any of claim 1 wherein the WTRU is compatible with RAN2 and detecting the communications failure comprises detecting the WTRU entering phase 2 of RAN2 radio link failure.

13. The method of claim 2 through 12 wherein detecting the handover failure comprises detecting a loss of connection with a network.

14. The method of claim 1 wherein the communication failure is a loss of connection with a network.

15. A wireless transmit receive unit (WTRU) comprising:

a means for detecting a communications failure;

a means for transmitting a WTRU identity and a source cell identity to a target evolved Node B (eNB) in response to the detected communications failure; and

a means for receiving an indication from the target eNB that allows a connection to be resumed by the WTRU.

16. The WTRU of claim 15, wherein the source cell identity is associated with a source eNB on which the WTRU was camped prior to the detected communications failure.

17. The WTRU of claim 15, wherein the communications failure is at least one of a radio link (RL) or a handover (HO) failure.

18. The WTRU of claim 15, further comprising a means for performing cell reselection to select the target eNB.

19. The WTRU of claim 15, wherein the source cell identity is considered in selecting an eNB as the target eNB.

20. The WTRU of claim 18, wherein the source cell identity is associated with a source cell and a source eNB and the means for performing cell reselection comprises:

a means for attempting to reselect to the source cell; and

a means for attempting to select a second cell associated with the source eNB on a condition that the source cell is not available for selection.

21. The WTRU of claim 20, further comprising a means for attempting to select a third cell associated with a different eNB on a condition that no cells associated with the source eNB are available for selection.

22. The WTRU of claim 15, wherein the indication from the target eNB is based on the WTRU identity matching a context.

23. The WTRU of claim 15 wherein the means for transmitting the WTRU identity and source cell identity performs the transmitting within a random access channel (RACH) procedure.

24. The WTRU of claim 15 wherein the means for transmitting transmits the WTRU

identity and source cell identity in an RRC Connection Request.

25. The WTRU of claim 15 wherein the means for transmitting transmits the WTRU identity and source cell identity in an Cell Update message.

26. The WTRU of claim 15 wherein the WTRU is compatible with RAN2 and mean for detecting the communications failure comprises mean for detecting the WTRU entering phase 2 of RAN2 radio link failure.

27. The WTRU of claim 15 wherein the communication failure is a loss of connection with a network.

CLAIMS

1. A method implemented for wireless communications between a wireless transmit receive unit (WTRU) and a target evolved Node B (eNB), the method comprising:

detecting a communications failure;

transmitting a WTRU identity and a source cell identity to the target eNB in response to the detected communications failure; and

receiving an indication from the target eNB that allows a connection to be resumed by the WTRU.

2. The method of claim 1, comprising conducting cell reselection for selecting the target eNB.

3. The method of claim 2, comprising selecting an eNB as the target eNB based on the source cell identity.

4. The method of claim 3, wherein the source cell identity is associated with a source cell and a source eNB and conducting cell reselection comprises:

attempting to reselect to the source cell; and

attempting to select a second cell associated with the source eNB on a condition that the source cell is not available for selection.

5. The method of claim 4, comprising:

attempting to select a third cell associated with a different eNB on a condition that no cells associated with the source eNB are available for selection.

6. The method of claim 1, comprising storing context information prior to the detected communications failure.

7. The method of claim 1, wherein the communications failure is at least one of a radio link (RL) failure or a handover (HO) failure.

8. The method of claim 1, wherein the indication from the target eNB is based on the WTRU identity matching a context.

9. The method of claim 1 wherein the transmitting the WTRU identity and source cell identity is performed within a random access channel (RACH) procedure.

10. The method of claim 9 wherein the transmitting comprises transmitting the WTRU identity and source cell identity in an RRC Connection Request.

11. The method of claim 9 wherein the transmitting comprises transmitting the WTRU identity and source cell identity in a Cell Update message.

12. The method of claim 2 through 11 wherein detecting the handover failure comprises detecting a loss of connection with a network.

13. The method of claim 1 wherein the communication failure is a loss of connection with a network.

14. A wireless transmit receive unit (WTRU) comprising:

a means for detecting a communications failure;

a means for transmitting a WTRU identity and a source cell identity to a target evolved Node B (eNB) in response to the detected communications failure; and

a means for receiving an indication from the target eNB that allows a connection to be resumed by the WTRU.

15. The WTRU of claim 14, wherein the source cell identity is associated with a source eNB on which the WTRU was camped prior to the detected communications failure.

16. The WTRU of claim 14, wherein the communications failure is at least one of a radio link (RL) or a handover (HO) failure.

17. The WTRU of claim 14, further comprising a means for performing cell reselection to select the target eNB.

18. The WTRU of claim 14, wherein the source cell identity is considered in selecting an eNB as the target eNB.

19. The WTRU of claim 18, wherein the source cell identity is associated with a source cell and a source eNB and the means for performing cell reselection comprises:

a means for attempting to reselect to the source cell; and

a means for attempting to select a second cell associated with the source eNB on a condition that the source cell is not available for selection.

20. The WTRU of claim 19, further comprising a means for attempting to select a third cell associated with a different eNB on a condition that no cells associated with the source eNB are available for selection.

21. The WTRU of claim 14, wherein the indication from the target eNB is based on the WTRU identity matching a context.

22. The WTRU of claim 14 wherein the means for transmitting the WTRU identity and source cell identity performs the transmitting within a random access channel (RACH) procedure.

23. The WTRU of claim 14 wherein the means for transmitting transmits the WTRU identity and source cell identity in an RRC Connection Request.

24. The WTRU of claim 14 wherein the means for transmitting transmits the WTRU

identity and source cell identity in a Cell Update message.

25. The WTRU of claim 14 wherein the communication failure is a loss of connection with a network.