CLAIMS

1. An apparatus operable in a wireless communication system, the apparatus comprising:

means to determine if a first registration is required;

means to perform a first registration, if determined that a first registration is required; and

means to generate a second registration area.

2. The apparatus as claimed in claim 1, wherein the means to determine if a first registration is required, comprises means to determine if current location is outside a first registration area.

3. The apparatus as claimed in claim 2, wherein the means to determine if current location is outside a first registration area comprises means to determine the current location of a access terminal.

4. The apparatus as claimed in claim 2, wherein the means to generate a second registration area comprises means to determine a new registration area and add it to first registration area.

5. The apparatus as claimed in claim 1, wherein the means to generate a second registration area comprises means to generate a new area using a coverage area of current service base station.

6. The apparatus as claimed in claim 1, wherein the means to generate a second registration area comprises means to generate a new area using current location.

7. The apparatus as claimed in claim 6, wherein the means of using current location comprises of means of determining the current location using a global positing system (GPS).

8. The apparatus as claimed in claim 1, wherein the means to generate a second registration area comprises means to generate a new area using location of a first access point.

9. The apparatus as claimed in claim 8, wherein the means of using location of the first access point comprises means of using longitude and latitude values of the first access point.

10. The apparatus as claimed in claim 1, further comprising:
means to determine if a second registration is required;
means to perform a second registration, if determined that a second registration is required; and
means to generate a third registration area.

11. The apparatus as claimed in claim 1, further comprises means to transition from a first registration area to the second registration area, wherein the first registration area is small and second registration area is large.

12. The apparatus as claimed in claim 1, wherein the means to determine if the first registration is required comprises of means to determine a location of the access terminal and means to determine if the location is outside of a first registration area.

13. The apparatus as claimed in claim 12, wherein the means to determine the location comprises means of using longitude and latitude value of a serving access point.

14. The apparatus as claimed in claim 13, wherein the means to determine the location comprises means of using GPS to derive the location of the access terminal.

15. The apparatus as claimed in claim 13, wherein the means to determine the location comprises means of using information about the number of registration the access terminal crossed.

16. A method for adjusting a registration area in a wireless communication system, the apparatus comprising:

determining if a first registration is required;

performing a first registration, if determined that a first registration is required; and

generating a second registration area.

17. The method as claimed in claim 16, wherein the determining if a first registration is required, comprises determining if current location is outside a first registration area.

18. The method as claimed in claim 17, wherein the determining if current location is outside a first registration area comprises determining the current location of a access terminal.

19. The method as claimed in claim 17, wherein the generating a second registration area comprises determining a new registration area and add it to first registration area.

20. The method as claimed in claim 16, wherein the generating a second registration area comprises generating a new area using a coverage area of current service base station.

21. The method as claimed in claim 16, wherein the generating a second registration area comprises generating a new area using current location.

22. The method as claimed in claim 21, wherein using current location comprises of determining the current location using a global positing system (GPS).

23. The method as claimed in claim 16, wherein the generating a second registration area comprises generating a new area using location of a first access point.

24. The method as claimed in claim 23, wherein using location of the first access point comprises of using longitude and latitude values of the first access point.

25. The method as claimed in claim 16, further comprising:
determining if a second registration is required;
performing a second registration, if determined that a second registration is required; and
generating a third registration area.

26. The method as claimed in claim 16, further comprises transitioning from a first registration area to the second registration area, wherein the first registration area is small and second registration area is large.

27. The method as claimed in claim 16, wherein the determining if the first registration is required comprises of determining a location of the access terminal and determine if the location is outside of a first registration area.

28. The method as claimed in claim 27, wherein the determining the location comprises of using longitude and latitude value of a serving access point.

29. The method as claimed in claim 28, wherein the determining the location comprises of means of using GPS to derive the location of the access terminal.

30. The method as claimed in claim 28, wherein the determining the location comprises of using information about the number of registration the access terminal crossed.

31. An apparatus operable in a communication system, the apparatus comprising:
a processor configured to determine if a first registration is required; the processor further configured to perform a first registration, if determined that a first registration is required; and the processor further configured to generate a second registration area.

32. The apparatus as claimed in claim 31, wherein the processor further configured to determine if current location is outside a first registration area.

33. The apparatus as claimed in claim 32, wherein the processor further configured to determine the current location.

34. The apparatus as claimed in claim 32, wherein the processor further configured to determine a new registration area and add it to first registration area.

35. The apparatus as claimed in claim 31, wherein the processor further configured to generate a new area using a coverage area of current service base station.

36. The apparatus as claimed in claim 31, wherein the processor further configured to generate a new area using current location.

37. The apparatus as claimed in claim 36, wherein the processor further configured to determine the current location using a global positing system (GPS).

38. The apparatus as claimed in claim 31, wherein the processor further configured to generate a new area using location of a first access point.

39. The apparatus as claimed in claim 38, wherein the processor further configured to use longitude and latitude values of the first access point to determine the location of access point.

40. The apparatus as claimed in claim 31, the processor further configured to determine if a second registration is required; the processor further configured to perform a second registration, if determined that a second registration is required; and the processor further configured to generate a third registration area.

41. A machine-readable medium comprising instructions which, when executed by a machine, cause the machine to perform operations including:
determining if a first registration is required;
performing a first registration, if determined that a first registration is required; and
generating a second registration area.

42. The machine-readable medium as claimed in claim 41, wherein the determining if a first registration is required, comprises determining if current location is outside a first registration area.

43. The machine-readable medium as claimed in claim 42, wherein the determining if current location is outside a first registration area comprises determining the current location of a access terminal.

44. The machine-readable medium as claimed in claim 42, wherein the generating a second registration area comprises determining a new registration area and add it to first registration area.

45. The machine-readable medium as claimed in claim 41, further comprising:
determining if a second registration is required;
performing a second registration, if determined that a second registration is required; and
generating a third registration area.

46. An apparatus operable in a communication system, the apparatus comprising:
a processor configured to determine if a first registration is required; the processor further configured to perform a first registration, if determined that a first registration is required; and the processor further configured to generate a second registration area;
a memory configured to store the parameters for registration area; and
a transmitter configured to transmit registration request.

47. An apparatus operable in a communication system, the apparatus comprising:
means to receive a first registration request from an access terminal that is outside the first registration area; and
means to adjust the paging area for the access terminal in response to receiving the first registration request.

48. A method for adjusting a paging area in a wireless communication area, method comprising:

receiving a first registration request from an access terminal that is outside the first registration area; and

adjusting the paging area for the access terminal in response to receiving the first registration request.

CLAIMS

1. An apparatus operable in a wireless communication system, the apparatus comprising:

component for determining if a first registration is required;

component for performing the first registration, wherein the first registration is performed if it is determined that the first registration is required; and

component for generating a second registration area, wherein the second registration area comprises a radial geographic area, and wherein the radius of the radial geographic area is a distance between a first location within a first registration area and a second location outside of the first registration area.

2. The apparatus as claimed in claim **1**, wherein the component for determining if the first registration is required comprises component for determining if a current location is outside the first registration area.

3. The apparatus as claimed in claim **2**, wherein the component for determining if the current location is outside the first registration area comprises means for determining a current location of an access terminal.

4. The apparatus as claimed in claim **3**, wherein the component for determining the current location of the access terminal comprises a global positioning system (GPS).

5. The apparatus as claimed in claim **1**, further comprising:
component for determining if a second registration is required;
component for performing the second registration, wherein the second registration is performed if it is determined that a second registration is required; and
component for generating a third registration area, wherein the third registration area comprises a radial geographic area, and wherein the radius of the radial geographic area is a distance between the first location within the first registration area and a third location outside of the second registration area.

6. The apparatus as claimed in claim **1**, further comprising component for transitioning from the first registration area to the second registration area, wherein the first registration area is small and the second registration area is large.

7. The apparatus as claimed in claim **1**, wherein the component for determining if the first registration is required comprises component for determining a location of the access terminal and component for determining if the location is outside of the first registration area.

8. The apparatus as claimed in claim **7**, wherein the component for determining the location of the access terminal comprises component for using longitude and latitude values of a serving access point.

9. The apparatus as claimed in claim **8**, wherein the component for determining the location of the access terminal comprises component for using a GPS to derive the location of the access terminal.

10. The apparatus as claimed in claim **8**, wherein the component for determining the location of the access terminal comprises component for using information about the number of registration areas the access terminal has crossed.

11. The apparatus as claimed in claim **1**, wherein the apparatus is an access terminal.

12. The apparatus as claimed in claim **1**, wherein the means for generating a second registration area generates the second registration area while in a power saving mode.

13. The apparatus as claimed in claim **1**, wherein the first registration area is a coverage area of a base station.

14. The apparatus as claimed in claim **13**, wherein the first location is a location of the base station.

15. The apparatus as claimed in claim **13**, wherein the first location is a former location of an access terminal.

16. A method at a wireless device for adjusting a registration area in a wireless communication system, the method comprising:

determining if a first registration is required;

performing the first registration if it is determined that the first registration is required; and

generating a second registration area, wherein the second registration area comprises a radial geographic area, and

wherein the radius of the radial geographic area is a distance between a first location within a first registration area and a second location outside of the first registration area.

17. The method as claimed in claim **16**, wherein determining if the first registration is required comprises determining if a current location is outside the first registration area.

18. The method as claimed in claim **17**, wherein determining if the current location is outside the first registration area comprises determining a current location of an access terminal.

19. The method as claimed in claim **18**, wherein determining the current location of the access terminal comprises using a global positioning system (GPS).

20. The method as claimed in claim **16**, further comprising:

determining if a second registration is required;

performing the second registration if it is determined that the second registration is required; and

generating a third registration area, wherein the third registration area comprises a radial geographic area, and wherein the radius of the radial geographic area is a distance between the first location within the first registration area and a third location outside of the second registration area.

21. The method as claimed in claim **16**, further comprising transitioning from the first registration area to the second registration area, wherein the first registration area is small and the second registration area is large.

22. The method as claimed in claim **16**, wherein the determining if the first registration is required comprises determining a location of the access terminal and determining if the location is outside of the first registration area.

23. The method as claimed in claim **22**, wherein determining the location of the access terminal comprises using longitude and latitude values of a serving access point.

24. The method as claimed in claim **23**, wherein determining the location of the access terminal comprises using a GPS to derive the location of the access terminal.

25. The method as claimed in claim **23**, wherein determining the location of the access terminal comprises using information about the number of registration areas the access terminal has crossed.

26. The method as claimed in claim **16**, wherein the first registration area is a coverage area of a base station.

27. The method as claimed in claim **26**, wherein the first location is a location of the base station.

28. The method as claimed in claim **26**, wherein the first location is a former location of an access terminal.

29. An apparatus operable in a communication system, the apparatus comprising a processor configured to:

determine if a first registration is required;

perform the first registration if it is determined that the first registration is required; and

generate a second registration area, wherein the second registration area comprises a radial geographic area, and wherein the radius of the radial geographic area is a distance between a first location within a first registration area and a second location outside of the first registration area.

30. The apparatus as claimed in claim **29**, wherein the processor is further configured to determine if a current location is outside the first registration area.

31. The apparatus as claimed in claim **30**, wherein the processor is further configured to determine a current location.

32. The apparatus as claimed in claim **29**, wherein the processor is further configured to determine the current location using a global positioning system (GPS).

33. The apparatus as claimed in claim **29**, wherein the processor is further configured to:

determine if a second registration is required;

perform the second registration if it is determined that a second registration is required; and

generate a third registration area, wherein the third registration area comprises a radial geographic area, and wherein the radius of the radial geographic area is a distance between the first location within the first registration area and a third location outside of the second registration area.

34. The apparatus as claimed in claim **29**, wherein the first registration area is a coverage area of a base station.

35. The apparatus as claimed in claim **34**, wherein the first location is a location of the base station.

36. The apparatus as claimed in claim **34**, wherein the first location is a former location of an access terminal.

37. A non-transitory machine-readable medium comprising instructions which, when executed by a machine, cause the machine to perform operations including:

determining if a first registration is required;

performing the first registration it is determined that the first registration is required; and

generating a second registration area, wherein the second registration area comprises a radial geographic area, and wherein the radius of the radial geographic area is a distance between a first location within a first registration area and a second location outside of the first registration area.

38. The machine-readable medium as claimed in claim **37**, wherein the determining if a first registration is required comprises determining if a current location is outside the first registration area.

39. The machine-readable medium as claimed in claim **38**, wherein the determining if current location is outside the first registration area comprises determining a current location of an access terminal.

40. The machine-readable medium as claimed in claim **37**, further comprising instructions which, when executed by a machine, cause the machine to perform operations including:

determining if a second registration is required;

performing the second registration if it is determined that the second registration is required; and

generating a third registration area, wherein the third registration area comprises a radial geographic area, and wherein the radius of the radial geographic area is a distance between the first location within the first registration area and a third location outside of the second registration area.

41. The machine-readable medium as claimed in claim **37**, wherein the first registration area is a coverage area of a base station.

42. The machine-readable medium as claimed in claim **41**, wherein the first location is a location of the base station.

43. The machine-readable medium as claimed in claim **41**, wherein the first location is a former location of an access terminal.

44. An apparatus operable in a communication system, the apparatus comprising:

a processor configured to:

determine if a first registration is required,

perform the first registration, if it is determined that the first registration is required, and

generate a second registration area, wherein the second registration area comprises a radial geographic area, and wherein the radius of the radial geographic area is a distance between a first location within a first registration area and a second location outside of the first registration area;

a memory configured to store the parameters for a registration area; and

a transmitter configured to transmit a registration request.

45. An apparatus operable in a communication system, the apparatus comprising:

component for receiving a first registration request from an access terminal that is outside a first registration area; and

component for adjusting the paging area for the access terminal based on an adjusted registration area for the access terminal and in response to receiving the first registration request, wherein the adjusted registration area comprises a radial geographic area, and wherein the radius of the radial geographic area is a distance between a first location within the first registration area and a second location outside of the first registration area.

46. A method for adjusting a paging area in a wireless communication system, the method comprising:

receiving a first registration request from an access terminal that is outside the first registration area; and

adjusting the paging area for the access terminal based on an adjusted registration area for the access terminal and in response to receiving the first registration request, wherein the adjusted registration area comprises a radial geographic area, and wherein the radius of the radial geographic area is a distance between a first location within the first registration area and a second location outside of the first registration area.