a radio resource control connection release is not received from the network; and sending, subsequent to the waiting, the attach request to an existing radio resource control connection when the timeout period expires and the radio resource control connection release is not received from the network.

[0006] In some example embodiments, one of more variations may be made as well as described in the detailed description below and/or as described in the following features. The waiting to send the attach request may prevent a race condition between the attach request and the radio resource control connection release. The attach request to the network may be sent after the waiting. The user equipment may autonomously initiate a release of a radio resource control connection between the user equipment and the network and establish, before the sending, another radio resource

[0006b] In yet another aspect, there is provided an apparatus comprising at least one processor; and at least one memory including computer program code for one or more programs, the at least one processor, the at least one memory, and the computer program code configured to cause the apparatus to at least: receive a message including a service rejection sent by a network; start a timeout period in response to the received message including the service rejection; wait to send an attach request to the network until the timeout period expires and a radio resource control connection release is not received from the network; and send, subsequent to the waiting, the attach request to an existing radio resource control connection, when the timeout period expires and the radio resource control connection release is not received from the network.

[0006c] In yet another aspect, there is provided a computer-readable medium encoded with instructions that, when executed by a processor, perform at least the following: receiving, at a user equipment, a message including a service rejection sent by a network; starting a timeout period in response to the received message including the service rejection; waiting to send an attach request to the network until a radio resource control connection release is received from the network; and sending, subsequent to the waiting, the attach request to a radio resource control connection, when the radio resource control connection release is received from the network and the timeout period has not expired.

[0006d] In yet another aspect, there is provided a computer-readable medium encoded with instructions that, when executed by a processor, perform at least the following: receiving, at a user equipment, a message including a service rejection sent

by a network; starting a timeout period in response to the received message including the service rejection; waiting to send an attach request to the network until the timeout period expires and a radio resource control connection release is not received from the network; and sending, subsequent to the waiting, the attach request to an existing radio resource control connection, when the timeout period expires and the radio resource control connection release is not received from the network.

[0006e] In yet another aspect, there is provided an apparatus comprising: means for receiving a message including a service rejection sent by a network; means for starting a timeout period in response to the received message including the service rejection; means for waiting to send an attach request to the network until a radio resource control connection release is received from the network; and means for sending, subsequent to the waiting, the attach request to a radio resource control connection, when the radio resource control connection release is received from the network and the timeout period has not expired.

[0006f] In yet another aspect, there is provided an apparatus comprising: means for receiving a message including a service rejection sent by a network; means for starting a timeout period in response to the received message including the service rejection; means for waiting to send an attach request to the network until the timeout period expires and a radio resource control connection release is not received from the network; and means for sending, subsequent to the waiting, the attach request to an existing radio resource control connection, when the timeout period expires and the radio resource control connection release is not received from the network.

WHAT IS CLAIMED IS

1. A method, comprising:

receiving, at a user equipment, a message including a service rejection sent by a network;

starting a timeout period in response to the received message including the service rejection;

waiting to send an attach request to the network until a radio resource control connection release is received from the network; and

sending, subsequent to the waiting, the attach request to a radio resource control connection, when the radio resource control connection release is received from the network and the timeout period has not expired.

2. A method, comprising:

receiving, at a user equipment, a message including a service rejection sent by a network;

starting a timeout period in response to the received message including the service rejection;

waiting to send an attach request to the network until the timeout period expires and a radio resource control connection release is not received from the network; and

sending, subsequent to the waiting, the attach request to an existing~~a~~ radio resource control connection when the timeout period expires and the radio resource control connection release is not received from the network.

3. The method of any one of claim~~s 1 and 2~~, wherein the waiting to send the attach request prevents a race condition between the attach request and the radio resource control connection release.

4. The method of claim 2, wherein the user equipment autonomously initiates the existing radio resource control connection release between the user equipment and the network and establishes, before the sending, ~~the~~ another radio resource control connection, which is different from the existing radio resource control connection, for carrying the attach request, when the timeout period expires and the existing radio resource control connection release is not received from the network.

5. The method as in claim 2, wherein the sending further comprises:

sending, by the user equipment, the attach request to the existing radio resource control connection and the network when the timeout period expires and the radio resource control connection release is not received from the network, the existing radio resource control connection being established before the receiving of the message including the service rejection.

6. The method as in any one of claims 1 to 5, wherein the message comprises a service rejection message including a first indication representative of a user equipment identity that is not derived and a second indication representative of the user equipment being implicitly detached.

7. The method as in any one of claims 1 to 6, wherein the message comprises a service rejection message including at least one of a cause 9 and a cause 10.

8. An apparatus comprising:

at least one processor; and

at least one memory including computer program code for one or more programs, the at least one processor, the at least one memory, and the computer program code configured to cause the apparatus to at least:

receive a message including a service rejection sent by a network;

start a timeout period in response to the received message including the service rejection;

wait to send an attach request to the network until a radio resource control connection release is received from the network; and

send, subsequent to the wait, the attach request to a radio resource control connection, when the a radio resource control connection release is received from the network and the timeout period has not expired.

9. An apparatus comprising:

at least one processor; and

at least one memory including computer program code for one or more programs, the at least one processor, the at least one memory, and the computer program code configured to cause the apparatus to at least:

receive a message including a service rejection sent by a network;

start a timeout period in response to the received message including the service rejection;

wait to send an attach request to the network until the timeout period expires and a radio resource control connection release is not received from the network; and

send, subsequent to the wait, the attach request to an existing ~~a~~ radio resource control connection, when the timeout period expires and the radio resource control connection release is not received from the network.

10. The apparatus of any one of claims ~~s~~ 8 ~~and 9~~, wherein the wait to send the attach request prevents a race condition between the attach request and the radio resource control connection release.

11. The apparatus of claim 9, wherein the apparatus autonomously initiates the existing radio resource control connection release between the apparatus and the network and establishes, before the attach request is sent, another ~~the~~ radio resource control connection, which is different from the existing radio resource control connection, for carrying the attach request, when the timeout period expires and the existing radio resource control connection release is not received from the network.

12. The apparatus as in claim 9, wherein the apparatus is further configured to at least:

send the attach request to the existing radio resource control connection and the network when the timeout period expires and the radio resource control connection release is not received from the network, the existing radio resource control connection being established before the message including the service rejection is received.

13. The apparatus as in any one of claims 8 to 12, wherein the message comprises a service rejection message including a first indication representative of a user equipment identity that is not derived and a second indication representative of the apparatus being implicitly detached.

14. The apparatus as in any one of claims 8 to 13, wherein the message comprises a service rejection message including at least one of a cause 9 and a cause 10.

15. A computer-readable medium encoded with instructions that, when executed by a processor, perform at least the following:

receiving, at a user equipment, a message including a service rejection sent by a network;

starting a timeout period in response to the received message including the service rejection;

waiting to send an attach request to the network until a radio resource control connection release is received from the network; and

sending, subsequent to the waiting, the attach request to a radio resource control connection, when the radio resource control connection release is received from the network and the timeout period has not expired.

16. A computer-readable medium encoded with instructions that, when executed by a processor, perform at least the following:

receiving, at a user equipment, a message including a service rejection sent by a network;

starting a timeout period in response to the received message including the service rejection;

waiting to send an attach request to the network until the timeout period expires and a radio resource control connection release is not received from the network; and

sending, subsequent to the waiting, the attach request to an existinga radio resource control connection, when the timeout period expires and the radio resource control connection release is not received from the network.

17. The computer-readable medium of ~~any one of~~ claim~~s~~ 15 ~~and 16~~, wherein the waiting to send the attach request prevents a race condition between the attach request and the radio resource control connection release.

18. The computer-readable medium as in claim 16, wherein the user equipment autonomously initiates the existing radio resource control connection release between the user equipment and the network and establishes, before the sending, another ~~the~~ radio resource control connection, which is different from the existing radio resource control connection, for carrying the attach request, when the timeout period expires and the existing radio resource control connection release is not received from the network.

19. The computer-readable medium as in claim 16, wherein the sending further comprises:

sending, by the user equipment, the attach request to the existing radio resource control connection and the network, when the timeout period expires

and the radio resource control connection release is not received from the network, the radio resource control connection being established before the receiving of the message including the service rejection.

20. The computer-readable medium as in any one of claims 15 to 19, wherein the message comprises a service rejection message including a first indication representative of a user equipment identity that is not derived and a second indication representative of the user equipment being implicitly detached.

21. An apparatus comprising:

means for receiving a message including a service rejection sent by a network;

means for starting a timeout period in response to the received message including the service rejection;

means for waiting to send an attach request to the network until a radio resource control connection release is received from the network; and

means for sending, subsequent to the waiting, the attach request to a radio resource control connection, when the radio resource control connection release is received from the network and the timeout period has not expired.

22. An apparatus comprising:

means for receiving a message including a service rejection sent by a network;

means for starting a timeout period in response to the received message including the service rejection;

means for waiting to send an attach request to the network until the timeout period expires and a radio resource control connection release is not received from the network; and

means for sending, subsequent to the waiting, the attach request to an existing radio resource control connection, when the timeout period expires and the radio resource control connection release is not received from the network.

23. The apparatus of any one of claim~~s~~ 21 ~~and 22~~, wherein the means for waiting to send the attach request prevents a race condition between the attach request and the radio resource control connection release.

24. The apparatus of claim 22, wherein the apparatus autonomously initiates the existing radio resource control connection release between the apparatus and the network and establishes, before the sending, the radio resource control connection, which is different from the existing radio resource control connection, for carrying the attach request, when the timeout period expires and the existing radio resource control connection release is not received from the network.

25. The apparatus as in claim 22 ~~9~~, wherein the means for sending further comprises:

means for sending the attach request to the existing radio resource control connection and the network, when the timeout period expires and the radio resource control connection release is not received from the network, the existing radio resource control connection being established before the receiving of the message including the service rejection.

26. The apparatus as in any one of claims 21 to 25, wherein the message comprises a service rejection message including a first indication representative of a user equipment identity that is not derived and a second indication representative of the apparatus being implicitly detached.