Claims

1. A method of radio resource control in a communication network entity (701, 901, 1200) designed for supporting a communication between a terminal (702, 1300) and a communication network (110) that comprises said communication network entity (701, 901, 1200), said communication between said communication network (110) and said terminal (702, 1300) being carried over one or more radio resources,

said terminal (702, 1300) and said communication network (110) being arranged to support a radio resource control suspend operation in which each of said terminal (702, 1300) and said communication network (110) stores respective radio resource control information related to a configured connected state of said terminal (702, 1300), said radio resource control information comprising radio resource configuration information belonging to a set of radio resources associated with said configured connected state,

said terminal (702, 1300) and said communication network (110) furthermore being arranged to support a radio resource control resume operation in which each of said terminal (702, 1300) and said communication network (110) refers to the respectively stored radio resource control information for resuming a connected state of said terminal,

said method comprising

performing an admission control process during said radio resource control resume operation, said admission control process comprising a procedure for examining whether said connected state is to be resumed according to the stored radio resource configuration information or if a radio resource reconfiguration procedure is to be performed for resuming the connected state.

2. The method of claim 1, wherein said radio resource reconfiguration procedure comprises examining which radio resources among said set of radio resources associated with said configured connected state are to be admitted according to the stored radio resource configuration information.

3. The method of claim 1 or 2, wherein said radio resource reconfiguration procedure comprises examining which radio resources among said set of radio resources associated with said configured connected state may be admitted after modification compared to the stored radio resource configuration information.

4. The method of claim 3, wherein said modification relates to quality of service parameters.

5. The method according to one of the preceding claims, wherein said radio resource reconfiguration procedure comprises examining which radio resources among said set of radio resources associated with said configured connected state may not be admitted.

6. The method according to one of the preceding claims, wherein said radio resource reconfiguration procedure comprises examining whether new radio resources different from said set of radio resources associated with said configured connected state may be added when resuming the connected state.

7. The method according to one of the preceding claims, wherein said admission control process comprises a decision procedure for deciding whether the connected state is to be resumed using only radio resources dedicated to communicating signaling or the connected state is to be resumed using both radio resources dedicated to communicating signaling and radio resources dedicated to communicating data.

8. The method of claim 7, wherein said decision procedure comprises checking a dedicated flag in a received message for triggering said radio resource control resume operation.

9. The method according to one of the preceding claims, wherein said communication network (110) comprises an access network (102) and a communication control network (103), and said communication network entity (701, 901, 1200) is an access network entity.

10. The method of claim 9, wherein said radio resource reconfiguration procedure comprises referring to a reconfiguration framework record whose contents are set dependent on information received from said communication control network.

11. The method according to claim 9 or 10, wherein said admission control process comprises sending a radio resource proposal message to said communication control network (110), receiving from said communication control network (110) a response message related to said radio resource proposal message and subsequently operating the resumed connected state in dependence on the content of said response message.

12. The method according to claim 11, wherein said admission control process comprises sending a first radio resource proposal message to said communication control

network at a first time, and if subsequent to said first time it is determined that a radio resource proposal revision condition is given, sending a second radio resource proposal message associated with different radio resource configuration information than said first radio resource proposal message to said communication control system.

13. The method of claim 12, wherein the process of determining whether a radio resource proposal revision condition is given is only performed within a predetermined time window after the first time.

14. The method of one of claims 9 to 13, wherein if the connected state is to be resumed with a set of radio resources configured differently than determined by the radio resource control information stored during the radio resource control suspend operation, then sending to said terminal a radio resource control communication reconfiguration message comprising radio resource reconfiguration information belonging to a set of reconfigured radio resources.

15. The method according to one of claims 1 to 8, wherein said communication network (110) comprises an access network (103) and a communication control network (103), and said communication network entity (701, 901, 1200) is a communication control network entity (103).

16. The method according to claim 15, wherein said admission control process comprises receiving a radio resource proposal message from said access network (102), sending to said access network a response message related to said radio resource proposal message and subsequently operating the resumed connected state in dependence on the content of said response message.

17. A computer program product comprising computer program code parts arranged for performing the method of one of claims 1 to 16 when executed on a processing system of a communication network entity.

18. A communication network entity (701, 901, 1200) designed for supporting a communication between a terminal (702, 1300) and a communication network (110) that comprises said communication network entity (701, 901, 1200), said communication between said communication network (110) and said terminal (702, 1300) being carried over one or more radio resources, said terminal (702, 1300) and said

communication network (110) being arranged to support a radio resource control suspend operation in which each of said terminal (702, 1300) and said communication network (110) stores respective radio resource control information related to a configured connected state of said terminal, said radio resource control information comprising radio resource configuration information belonging to a set of radio resources associated with said configured connected state, said terminal (702, 1300) and said communication network (110) furthermore being arranged to support a radio resource control resume operation in which each of said terminal (702, 1300) and said communication network (110) refers to the respectively stored radio resource control information for resuming an connected state of said terminal (702, 1300),

said communication network entity (701, 901, 1200) comprising a radio resource controller arranged for performing an admission control process during said radio resource control resume operation, said admission control process comprising a procedure for examining whether said connected state is to be resumed according to the stored radio resource configuration information or if a radio resource reconfiguration procedure is to be performed for resuming the connected state.

19. A method of radio resource control in terminal (702, 1300) designed for supporting a communication between said terminal (702, 1300) and a communication network (110), said communication between said communication network (110) and said terminal (702, 1300) being carried over one or more radio resources,

said terminal (702, 1300) and said communication network (110) being arranged to support a radio resource control suspend operation in which each of said terminal (702, 1300) and said communication network (110) stores respective radio resource control information related to a configured connected state of said terminal (702, 1300), said radio resource control information comprising radio resource configuration information belonging to a set of radio resources associated with said configured connected state,

said terminal (702, 1300) and said communication network (110) furthermore being arranged to support a radio resource control resume operation in which each of said terminal (702, 1300) and said communication network (110) refers to the respectively stored radio resource control information for resuming a connected state of said terminal (702, 1300),

said method comprising

performing a radio resource control resume process that comprises determining whether said connected state is to be resumed according to the stored radio resource

configuration information or if different radio resource configuration information is to be used for resuming the connected state.

20. The method of claim 19, wherein said radio resource configuration information different from said stored radio resource configuration information is received from said communication network (110).

21. A computer program product comprising computer program code parts arranged for performing the method of one of claims 19 and 20 when executed on a processing system of a terminal (702, 1300).

22. A terminal (702, 1300) designed for supporting a communication between said terminal and a communication network (110), said communication between said communication network (110) and said terminal (702, 1300) being carried over one or more radio resources, said terminal (702, 1300) and said communication network (110) being arranged to support a radio resource control suspend operation in which each of said terminal (702, 1300) and said communication network (110) stores respective radio resource control information related to a configured connected state of said terminal (702, 1300), said radio resource control information comprising radio resource configuration information belonging to a set of radio resources associated with said configured connected state, said terminal (702, 1300) and said communication network (110) furthermore being arranged to support a radio resource control resume operation in which each of said terminal and said communication network refers to the respectively stored radio resource control information for resuming a connected state of said terminal,

said terminal (702, 1300) comprising a radio resource controller arranged for performing a radio resource control resume process that comprises determining whether said connected state is to be resumed according to the stored radio resource configuration information or if different radio resource configuration information is to be used for resuming the connected state.