

CLAIMS

1. A method of obtaining path information of an Unmanned Aerial Vehicle (UAV), being applicable to a base station, and comprising:

receiving indication information from a UAV, wherein the indication information indicates whether the UAV has a capability of sending path information;

in response to that the UAV has the capability of sending the path information according to the indication information, sending configuration information to the UAV, wherein the configuration information indicates whether the UAV is allowed to send the path information to the base station, and the configuration information indicates that the UAV is not allowed to send the path information to the base station in response to the base station not being able to receive the path information from the UAV; and

in response to that the UAV is allowed to send the path information to the base station and in a case that the flight path information is to be sent to the base station, receiving the path information from the UAV.

2. The method according to claim 1, further comprising:

determining, according to the path information, an other base station corresponding to a cell to be traversed by the UAV; and

sending first preparation information to the UAV, wherein the first preparation information comprises information required for the UAV establishing a communication connection with the other base station.

3. The method according to claim 1, further comprising:

determining, according to the path information, an other base station corresponding to a cell to be traversed by the UAV; and

sending second preparation information to the other base station, wherein the second preparation information instructs the other base station to prepare for establishing a communication connection with the UAV.

4. The method according to any one of claims 1 to 3, wherein the configuration information further indicates a parameter of a mode in which the UAV sends the path information to the base station.

5. The method according to any one of claims 1 to 3, wherein the configuration information is comprised in RRCConnectionReconfiguration signaling.

6. The method according to claim 5, wherein the configuration information is comprised in an OtherConfig information element of the RRCConnectionReconfiguration signaling.

7. A method of sending path information of a UAV, being applicable to a UAV, and comprising:

 sending indication information to a base station, wherein the indication information indicates whether the UAV has a capability of sending path information;

 in response to that the UAV has the capability of sending the path information, receiving configuration information from the base station, wherein the configuration information indicates whether the UAV is allowed to send the path information to the base station, and the configuration information indicates that the UAV is not allowed to send the path information to the base station in response to the base station not being able to receive the path information from the UAV; and

 in response to that the UAV is allowed to send the path information to the base station, and in a case that the path information is to be sent to the base station, sending the path information to the base station.

8. The method according to claim 7, wherein the path information comprises pre-stored path information.

9. The method according to claim 7, wherein the path information comprises path information received from a controller.

10. The method according to claim 7, further comprising:

receiving first preparation information from the base station, wherein the first preparation information comprises information required for the UAV establishing a communication connection with an other base station which corresponds to a cell to be traversed by the UAV.

11. The method according to any one of claims 7 to 10, wherein

the configuration information further indicates a parameter of a mode in which the UAV sends the path information to the base station, and

sending the path information to the base station comprises:

sending the path information to the base station according to the parameter of the mode.

12. The method according to any one of claims 7 to 10, wherein the indication information is comprised in UE-EUTRA-Capability signaling.

13. The method according to claim 12, wherein the indication information is comprised in an OtherParameters information element of the UE-EUTRA-Capability signaling.

14. The method according to any one of claims 7 to 10, wherein the path information is comprised in UEAssistanceInformation signaling.

15. The method according to claim 14, wherein the path information is comprised in a FlightPathInformation information element of the UEAssistanceInformation signaling.

~~16. An apparatus for obtaining path information of a UAV, being applicable to a base station, and comprising:~~

~~a first receiving module configured to receive indication information from a UAV, wherein the indication information indicates whether the UAV has a capability of sending path~~

information;

~~a first sending module configured to, in response to that the UAV has the capability of sending the path information according to the indication information, send configuration information to the UAV, wherein the configuration information indicates whether the UAV is allowed to send the path information to the base station; and~~

~~a second receiving module configured to, in response to that the UAV is allowed to send the path information to the base station, receive the path information from the UAV.~~

17. The apparatus according to claim 16, further comprising:

~~a base station determining module configured to determine, according to the path information, an other base station corresponding to a cell to be traversed by the UAV; and~~

~~a second sending module configured to send first preparation information to the UAV, wherein the first preparation information comprises information required for the UAV establishing a communication connection with the other base station.~~

18. The apparatus according to claim 16, further comprising:

~~a base station determining module configured to determine, according to the path information, an other base station corresponding to a cell to be traversed by the UAV; and~~

~~a third sending module configured to send second preparation information to the other base station, wherein the second preparation information instructs the other base station to prepare for establishing a communication connection with the UAV.~~

19. The apparatus according to any one of claims 16 to 18, wherein the configuration information further indicates a parameter of a mode in which the UAV sends the path information to the base station.

20. The apparatus according to any one of claims 16 to 18, wherein the configuration information is comprised in RRCConnectionReconfiguration signaling.

~~21. The apparatus according to claim 20, wherein the configuration information is comprised in an OtherConfig information element of the RRCConnectionReconfiguration signaling.~~

~~22. An apparatus for sending path information of a UAV, being applicable to a UAV, and comprising:~~

~~an indication sending module configured to send indication information to a base station, wherein the indication information indicates whether the UAV has a capability of sending path information;~~

~~a configuration receiving module configured to, in response to that the UAV has the capability of sending the path information, receive configuration information from the base station, wherein the configuration information indicates whether the UAV is allowed to send the path information to the base station; and~~

~~a path sending module configured to, in response to that the UAV is allowed to send the path information to the base station, and in a case that the path information is to be sent to the base station, send the path information to the base station.~~

~~23. The apparatus according to claim 22, wherein the path information comprises pre-stored path information.~~

~~24. The apparatus according to claim 22, wherein the path information comprises path information received from a controller.~~

~~25. The apparatus according to claim 22, further comprising:~~

~~a preparation receiving module configured to receive first preparation information from the base station, wherein the first preparation information comprises information required for the UAV establishing a communication connection with an other base station which corresponds to a cell to be traversed by the UAV.~~

~~26. The apparatus according to any one of claims 22 to 25, wherein the path sending module is configured to:~~

~~send the path information to the base station according to a parameter of a mode.~~

~~27. The apparatus according to any one of claims 22 to 25, wherein the indication information is comprised in UE EUTRA Capability signaling.~~

~~28. The apparatus according to claim 27, wherein the indication information is comprised in an OtherParameters information element of the UE EUTRA Capability signaling.~~

~~29. The apparatus according to any one of claims 22 to 25, wherein the path information is comprised in UE Assistance Information signaling.~~

~~30. The apparatus according to claim 29, wherein the path information is comprised in a FlightPathInformation information element of the UE Assistance Information signaling.~~

~~31~~16. An electronic device, comprising:

a processor, and

a memory for storing instructions executable by the processor,

wherein the processor is configured to perform the method according to any one of claims 1 to 6.

~~32~~17. An electronic device, comprising:

a processor, and

a memory for storing instructions executable by the processor,

wherein the processor is configured to perform the method according to any one of claims 7 to 15.

~~33~~18. A computer readable storage medium storing a computer program, wherein the program is executed by a processor to perform the method according to any one of claims 1 to 6.

~~34~~19. A computer readable storage medium storing a computer program, wherein the program is executed by a processor to perform the method according to any one of claims 7 to 15.