CLAIMS

1. A communication method, comprising:

determining that a first satellite leaves a first service area; and

sending a connection release request message to a core network element, wherein the connection release request message is used to request to release a connection between a satellite-borne apparatus of the first satellite and the core network element.

2. The method according to claim 1, wherein, the method further comprises:

receiving a connection release response message from the core network element.

3. The method according to claim 1 or 2, wherein the determining that the first satellite leaves the first service area comprises:

determining, based on one or more of the following information, that the first satellite leaves the first service area: ephemeris information, ground coverage information, or connection information of a feeder link between the first satellite and a gateway, wherein the ground coverage information comprises time information of covering the first service area by the first satellite.

4. The method according to any one of claims 1 to 3, wherein the method further comprises:

sending indication information to the core network element, wherein the indication information indicates that the first satellite leaves the first service area.

5. The method according to any one of claims 1 to 4, wherein the method further comprises:

disconnecting from a power supply; or

deleting information about the connection, stopping detecting reachability of the connection, and disconnecting from a power supply.

6. The method according to any one of claims 1 to 5, wherein

the core network element is an access and mobility management function entity, and the satellite-borne apparatus of the first satellite is a satellite-borne radio access network device of the first satellite.

7. A communication method, comprising:

receiving a connection release request message from a satellite-borne apparatus of a first satellite, wherein the connection release request message is used to request to release a connection between the satellite-borne apparatus and a core network element;

sending a connection release response message to the satellite-borne apparatus.

8. The method according to claim 7, wherein, the method further comprises:

receiving indication information from the satellite-borne apparatus, wherein the indication information indicates that the first satellite leaves the first service area.

9. The method according to claim 7 or 8, wherein the core network element is an access and

mobility management function entity, and the satellite-borne apparatus of the first satellite is a satellite-borne radio access network device of the first satellite.

10. An apparatus, wherein the apparatus is configured to perform the method according to any one of claims 1 to 6 or to perform the method according to any one of claims 7 to 9.

11. A computer readable storage medium comprising instructions, wherein which, when executed by a computer device, cause the computer device to perform the method according to any one of claims 1 to 6 or to perform the method according to any one of claims 7 to 9.

12. A computer program product, comprising instructions, wherein which, when executed by a computer device, cause the computer device to perform the method according to any one of claims 1 to 6 or to perform the method according to any one of claims 7 to 9.