

CLAIMS

1. A reporting method, performed by a terminal device, comprising:
reporting a radio link failure report (RLF-report) to a network-side device in response to triggering the RLF-report, wherein the RLF-report carries received signal strength indicator (RSSI) information and/or channel occupancy (CO) information.
2. The method according to claim 1, wherein reporting the RLF-report to the network-side device in response to triggering the RLF-report comprises:
recording the RSSI information and/or the CO information to a radio link failure report parameter (VarRLF-report) variable in response to triggering recording failure information to the VarRLF-report variable; and
reporting the RLF-report to the network-side device in response to triggering the RLF-report, wherein the RLF-report carries the RSSI information and/or the CO information recorded in the VarRLF-report variable.
3. The method according to claim 2, wherein a triggering condition for triggering recording the failure information to the VarRLF-report variable comprises at least one of:
a handover failure; or
a radio link failure (RLF).
4. The method according to any one of claims 1 to 3, wherein a triggering condition for reporting the RLF-report comprises at least one of:
a master cell group media access control (MCG MAC) random access;
a primary cell (PCell) beam recovery failure;
a PCell T310 expiry;
a PCell T312 expiry;
a master cell group radio link control (MCG RLC) reaching a maximum number of retransmissions;
a consistent uplink listen before talk (LBT) detection failure occurred on an MCG MAC; or
a backhaul radio link failure indication.
5. The method according to claim 1, further comprising:
reporting the RLF-report to the network-side device, wherein the RLF-report carries network capability information, and the network capability information is used to indicate a capability of the terminal device to support recording and reporting the RSSI information and/or the CO information in the RLF-report.
6. A reporting method, performed by a terminal device, comprising:
reporting a target report to a network-side device in response to triggering recording target

report reporting, wherein the target report carries RSSI information and/or CO information, and the target report comprises at least one of a successful handover report, a random access report (RA-report), or a successful primary secondary cell (PScell) addition or change report.

7. The method according to claim 6, wherein reporting the target report to the network-side device in response to triggering recording the target report reporting comprises:

reporting the successful handover report to the network-side device in response to triggering recording the successful handover report, wherein the successful handover report carries the RSSI information and/or the CO information.

8. The method according to claim 7, wherein a triggering condition for reporting the successful handover report to the network-side device comprises at least one of:

a first ratio of a T304 elapsed time to a first configured time exceeding a first threshold;

a second ratio of a T310 elapsed time to a second configured time exceeding a second threshold;

a third ratio of a T312 elapsed time to a third configured time exceeding a third threshold; or
an RLF occurred in a source cell during a dual active protocol stack (DAPS) handover.

9. A reporting method, performed by a network-side device, comprising:

receiving an RLF-report reported by a terminal device, wherein the RLF-report carries RSSI information and/or CO information.

10. The method according to claim 9, wherein the RLF-report carries a VarRLF-report variable, and the VarRLF-report variable carries the RSSI information and/or the CO information.

11. The method according to claim 9 or 10, wherein the RLF-report carries network capability information, and the network capability information is used to indicate a capability of the terminal device to support recording and reporting the RSSI information and/or the CO information in the RLF-report.

12. A reporting method, performed by a network-side device, comprising:

receiving a target report reported by a terminal device, wherein the target report carries RSSI information and/or CO information, and the target report comprises at least one of a successful handover report, a random access report (RA-report), or a successful primary secondary cell (PScell) addition or change report.

13. The method according to claim 12, wherein the target report carries network capability information, and the network capability information is used to indicate a capability of the terminal device to support recording and reporting the RSSI information and/or the CO information in the target report.

14. A reporting apparatus, comprising:

a reporting module configured to report a radio link failure report (RLF-report) to a network-

side device in response to triggering the RLF-report, wherein the RLF-report carries received signal strength indicator (RSSI) information and/or channel occupancy (CO) information.

15. A reporting apparatus, comprising:

a reporting module configured to report a target report to a network-side device in response to triggering recording target report reporting, wherein the target report carries RSSI information and/or CO information, and the target report comprises at least one of a successful handover report, a random access report (RA-report), or a successful primary secondary cell (PScell) addition or change report.

16. A reporting apparatus, comprising:

a receiving module configured to receive an RLF-report reported by a terminal device, wherein the RLF-report carries RSSI information and/or CO information.

17. A reporting apparatus, comprising:

a receiving module configured to receive a target report reported by a terminal device, wherein the target report carries RSSI information and/or CO information, and the target report comprises at least one of a successful handover report, a random access report (RA-report), or a successful primary secondary cell (PScell) addition or change report.

18. A terminal device, comprising:

a processor; and

a memory having stored therein a computer program,

wherein the processor is configured to execute the computer program stored in the memory, to cause the device to perform the method according to any one of claims 1 to 8.

19. A network-side device, comprising:

a processor; and

a memory having stored therein a computer program,

wherein the processor is configured to execute the computer program stored in the memory, to cause the device to perform the method according to any one of claims 9 to 13.

20. A computer-readable storage medium for storing instructions that, when executed, cause the method according to any one of claims 1 to 13 to be implemented.