What is claimed is:

1. A link state notification method, comprising:

transmitting, by a first communication node, link state information to a second communication node, wherein the second communication node is a child node of the first communication node, and the link state information comprises at least one of:

a Radio Link Failure (RLF) indication;

a Radio Resource Control (RRC) reconfiguration failure indication;

an RRC integrity check failure indication;

a mobility failure indication;

a synchronous reconfiguration failure indication; and

a timer timeout indication,

performing, by the first communication node, link recovery; and

transmitting, by the first communication node, link state recovery indication information to the second communication node if the link recovery is successful.

2. The method of claim 1, wherein the first communication node transmits the link state information to the second communication node under one of the following conditions:

the first communication node enters an RRC idle state;

the first communication node starts an RRC connection reestablishment procedure; and

the first communication node detects a timer timeout.

3. The method of claim 2, wherein the link state information comprises one of:

an indication that the first communication node enters an idle state;

an indication of initiation of RRC connection reestablishment; and

a timer timeout indication.

4. The method of any one of claims 1 to 3, further comprising:

transmitting, by the first communication node, node identification information of the first node to the second communication node.

5. The method of any one of claims 1 to 4, after the step of transmitting the link state information, further comprising:

updating, by the first communication node, a user access control parameter in system information or stopping transmitting a system information block.

6. The method of claim 5, further comprising:

transmitting, by the first communication node, state identification information of the first communication node to the second communication node,

wherein the state identification information is configured to indicate at least one of link recovery time of the first communication node and a node state of the first communication node.

7. A link state notification device located at a first communication node, comprising:

a transmitting module configured to transmit link state information to a second communication node, wherein the second communication node is a child node of the first communication node, and the link state information comprises at least one of:

a Radio Link Failure (RLF) indication;

a Radio Resource Control (RRC) reconfiguration failure indication;

an RRC integrity check failure indication;

a mobility failure indication;

a synchronous reconfiguration failure indication; and

a timer timeout indication,

perform link recovery; and

transmit link state recovery indication information to the second communication node if the link recovery is successful.

8. A storage medium having a computer program stored therein, wherein the computer program is configured to, when being executed, perform the link state notification method of any one of claims 1 to 6.

9. An electronic device, comprising a memory having a computer program stored therein, and a

processor configured to execute the computer program to perform the link state notification method of any one of claims 1 to 6.