WHAT IS CLAIMED IS:

1. A method for a connection failure detection, performed by a user equipment (UE), the method comprising:

performing the connection failure detection for a small data transmission (SDT) process.

2. The method according to claim 1, wherein performing the connection failure detection for the SDT process comprises:

performing the connection failure detection for the SDT process according to a failure detection configuration obtained.

3. The method according to claim 2, wherein the failure detection configuration comprises:

the failure detection configuration received from a network side; and/or

the failure detection configuration specified in a protocol.

4. The method according to claim 3, wherein the failure detection configuration received from the network side comprises:

the failure detection configuration received from the network side and carried in a system message; and/or

the failure detection configuration received from the network side and carried in a connection release message.

5. The method according to any one of claims 1 to 4, wherein performing the connection failure detection for the SDT process comprises:

performing the connection failure detection for the SDT process, in response to detecting a trigger event.

6. The method according to claim 5, wherein the trigger event comprises at least one of:

starting the SDT process;

the UE sending uplink data for the first time in the SDT process; or

the UE receiving an acknowledgment indication from a network side, wherein the acknowledgment indication is an indication sent by the network side after receiving the uplink data sent for the first time in the SDT process.

7. The method according to any one of claims 1 to 6, further comprising:

stopping the connection failure detection for the SDT process, in response to a stop event being detected.

8. The method according to claim 7, wherein the stop event being detected comprises:

a connection state of the UE being changed; and/or

the UE receiving connection-associated specific indication information from the network side.

9. The method according to claim 8, wherein the connection state of the UE being changed comprises at least one of:

the connection state of the UE being changed from an inactive state to an idle state;

the connection state of the UE being changed from an inactive state to a connected state; or

the connection state of the UE being changed from an idle state to a connected state.

10. The method according to claim 8, wherein the UE receiving the connection-associated specific indication information from the network side comprises at least one of:

the UE receiving a connection release message from the network side;

the UE receiving a connection recovery message from the network side;

the UE receiving a connection rejection message from the network side; or

the UE receiving a connection establishment message from the network side.

11. The method according to claim 2, wherein the failure detection configuration comprises at least one of:

timer information, indicating a timer associated with the connection failure detection;

counter information, indicating a counter associated with the connection failure detection; or

signal indication information, for indicating a signal for performing the connection failure detection.

12. An information processing method, performed by a base station, the method comprising:

sending a failure detection configuration, wherein the failure detection configuration is configured for a UE to perform a connection failure detection for an SDT process.

13. The method according to claim 12, wherein sending the failure detection configuration comprises:

sending a system message carrying the failure detection configuration; and/or

sending a connection release message carrying the failure detection configuration.

14. The method according to claim 12 or 13, further comprising:

sending connection-associated specific indication information; wherein the specific indication information is configured to trigger the UE to stop the connection failure detection for the SDT process.

15. The method according to claim 14, wherein the specific indication information comprises at least one of:

a connection release message;

a connection recovery message;

a connection rejection message; or

a connection establishment message.

16. The method according to any one of claims 12 to 15, wherein the failure detection configuration comprises at least one of:

timer information, indicating a timer associated with the connection failure detection;

counter information, indicating a counter associated with the connection failure detection; or

signal indication information, for indicating a signal for performing the connection failure detection.

17. An apparatus for a connection failure detection, performed by a user equipment (UE),

the apparatus comprising:

a detection module, configured to perform the connection failure detection for a small data transmission (SDT) process.

18. An information processing apparatus, comprising:

a sending module, configured to send a failure detection configuration, wherein the failure detection configuration is configured for a UE to perform a connection failure detection for an SDT process.

19. A communication device, comprising:

a processor,

a transceiver, and

a memory storing a program executable by the processor,

wherein the processor is configured to perform the method according to any one of claims 1 to 11 or the method according to any one of claims 12 to 16.

20. A non-transitory computer-readable storage medium having stored therein an executable program that, after executed by a processor, causes the method according to any one of claims 1 to 11 or the method according to any one of claims 12 to 16 to be implemented.