

CLAIMS

1. A detection processing method, performed by a terminal, and comprising:
in response to a candidate cell configuration used by the terminal being
5 changed, determining whether to perform connection failure detection in a target
candidate cell according to a predefined rule,
wherein determining whether to perform connection failure detection in the
target candidate cell according to the predefined rule comprises at least one of:
determining whether to perform connection failure detection in the target
10 candidate cell according to network configuration indication information sent by
a network device, wherein the network configuration indication information is
configured to indicate whether the terminal needs to perform connection failure
detection in the target candidate cell;
determining whether to perform connection failure detection in the target
15 candidate cell based on whether a cell type of the target candidate cell belongs to
a specified type, wherein the specified type is a type of cell or cell group that
needs to perform connection failure detection as agreed by a protocol; or
determining whether to perform connection failure detection in the target
candidate cell based on the network configuration indication information and
20 whether the cell type of the target candidate cell belongs to the specified type.
2. The method according to claim 1, wherein
the target candidate cell is associated with a target candidate cell
configuration, and
the target candidate cell configuration is the candidate cell configuration that
25 is activated or deactivated when the candidate cell configuration changes.
3. The method according to claim 1, wherein the determining whether to
perform connection failure detection in the target candidate cell based on the
network configuration indication information and whether the cell type of the
target candidate cell belongs to the specified type comprises:

in a case that the cell type of the target candidate cell belongs to the specified type and the network configuration indication information indicates that the terminal needs to perform connection failure detection in the target candidate cell, determining to perform connection failure detection in the target candidate cell;
5 and

in a case that at least one of: the cell type of the target candidate cell does not belong to the specified type or the network configuration indication information indicates that the terminal does not need to perform connection failure detection in the target candidate cell, determining not to perform
10 connection failure detection in the target candidate cell.

4. The method according to claim 1 or 3, wherein
the network configuration indication information is comprised in candidate cell configuration information, wherein the candidate cell configuration information is configured by the network device to provide one or more candidate
15 cell configurations for the terminal; or

the network configuration indication information is comprised in change indication information, wherein the change indication information is configured to instruct the terminal to change the used candidate cell configuration.

5. The method according to claim 1 or 3, wherein the specified type
20 comprises at least one of:

Primary Cell (PCell);
Primary Secondary Cell (PSCell);
Special Cell (SpCell); or
Master Cell Group (MCG).

25 6. The method according to claim 1 or 3, wherein
the network configuration indication information comprises failure configuration information, wherein the failure configuration information is configured by the network device for the terminal to perform at least one of: connection failure detection or connection failure recovery.

7. The method according to claim 6, wherein the failure configuration information comprises at least one of:

reference signal indication information, wherein the reference signal indication information is configured to indicate a specified reference signal for the terminal to perform connection failure detection; or

beam identifier, wherein the beam identifier is configured to indicate an available beam when the terminal performs connection failure recovery.

8. The method according to claim 7, wherein the beam identifier comprises at least one of:

Synchronization Signal Block (SSB) identifier; or

Channel State Information-Reference Signal (CSI-RS) identifier.

9. The method according to claim 1, wherein the method further comprises at least one of:

in response to receiving change indication information sent by a network device, triggering the terminal to change the used candidate cell configuration, wherein the change indication message is configured to instruct the terminal to change the used candidate cell configuration; or

in response to meeting a predefined candidate cell configuration change condition, triggering the terminal to change the used candidate cell configuration.

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

in response that it is determined to perform connection failure detection in the target candidate cell according to the predefined rule, and the target candidate cell configuration is deactivated, performing connection failure detection in the target candidate cell; or

in response that it is determined to perform connection failure detection in the target candidate cell according to the predefined rule, and the target candidate cell configuration is activated, performing connection failure detection in the target candidate cell.

11. The method according to claim 10, wherein the performing connection

failure detection in the target candidate cell comprises at least one of:

- resetting a counter corresponding to a connection failure detection process;
- resetting a timer corresponding to the connection failure detection process;
- discarding connection failure report information;

5 considering that connection failure recovery process is successfully completed; or

 in response that a connection failure recovery configuration is changed, stopping an ongoing connection failure recovery process and triggering a new connection failure recovery process.

10 12. The method according to claim 10, wherein the method further comprises;

 triggering the terminal to perform connection failure recovery.

 13. A terminal behavior determination method, performed by a network device, and comprising:

15 determining whether a terminal performs connection failure detection in a target candidate cell according to a predefined rule,

 wherein determining whether the terminal performs connection failure detection in the target candidate cell according to the predefined rule comprises at least one of:

20 determining whether the terminal performs connection failure detection in the target candidate cell based on network configuration indication information sent by the network device to the terminal, wherein the network configuration indication information is configured to indicate whether the terminal needs to perform connection failure detection in the target candidate cell;

25 determining whether the terminal performs connection failure detection in the target candidate cell based on whether a cell type of the target candidate cell belongs to a specified type, wherein the specified type is a type of cell or cell group that needs to perform connection failure detection as agreed by a protocol; or

determining whether the terminal performs connection failure detection in the target candidate cell based on the network configuration indication information and whether the cell type of the target candidate cell belongs to the specified type.

5 14. The method according to claim 13, wherein
the target candidate cell is associated with a target candidate cell configuration, and

the target candidate cell configuration is a candidate cell configuration that is activated or deactivated when the candidate cell configuration used by the
10 terminal changes.

15 15. The method according to claim 13, wherein the determining whether the terminal performs connection failure detection in the target candidate cell based on the network configuration indication information and whether the cell type of the target candidate cell belongs to the specified type comprises:

in a case that the cell type of the target candidate cell belongs to the specified type and the network configuration indication information indicates that the terminal needs to perform connection failure detection in the target candidate cell, determining that the terminal performs connection failure detection in the target candidate cell; and

20 in a case that at least one of: the cell type of the target candidate cell does not belong to the specified type or the network configuration indication information indicates that the terminal does not need to perform connection failure detection in the target candidate cell, determining that the terminal does not perform connection failure detection in the target candidate cell.

25 16. The method according to claim 13 or 15, wherein the method further comprises:

sending candidate cell configuration information comprising the network configuration indication information to the terminal, wherein the candidate cell configuration information is configured by the network device to provide one or

more candidate cell configurations for the terminal; or

sending change indication information comprising the network configuration indication information to the terminal, wherein the change indication information is configured to instruct the terminal to change the used

5 candidate cell configuration.

17. A terminal, comprising:

a processor; and

a memory storing instructions executable by the processor,

wherein the processor is configured to perform the detection processing

10 method according to any one of claims 1-12.

18. A network device, comprising:

a processor; and

a memory storing instructions executable by the processor,

wherein the processor is configured to perform the terminal behavior

15 determination method according to any one of claims 13-16.