

CLAIMS

What is claimed is:

1. A method for determining a resource location, implemented by a terminal device, the method comprising:

determining, based on a first uplink slot where channel state information (CSI) reporting moment is located, a second downlink slot corresponding to the CSI reporting moment;

obtaining a slot offset, wherein the slot offset is a slot offset of a location of a CSI reference resource on a time domain relative to the second downlink slot; and

determining a third downlink slot as the location of the CSI reference resource on the time domain, wherein the third downlink slot is obtained by subtracting the slot offset from the second downlink slot,

wherein the second downlink slot is determined according to the following formula:

$$n' = \left\lfloor n * \frac{2^{\mu_1}}{2^{\mu_2}} \right\rfloor$$

where n' represents the second downlink slot, n represents the first uplink slot, μ_1 is a μ value corresponding to a subcarrier spacing of a measurement resource or another resource related to downlink measurement, and μ_2 is a μ value corresponding to a subcarrier spacing of reported physical uplink control channel, PUCCH, or physical uplink shared channel, PUSCH, resource.

2. The method according to claim 1, wherein obtaining the slot offset comprises:

determining the slot offset based on downlink measurement resource configuration comprised in CSI reporting configuration information.

3. The method according to claim 2, wherein determining the slot offset based on the downlink measurement resource configuration comprised in the CSI reporting configuration information comprises:

determining the slot offset based on a subcarrier spacing corresponding to the downlink measurement resource configuration comprised in the CSI reporting

configuration information.

4. The method according to claim 2 or 3, wherein

the downlink measurement resource configuration comprised in the CSI reporting configuration information comprises: configuration of a measurement resource corresponding to CSI reporting.

5. The method according to any one of claims 2 to 4, wherein

the CSI reporting configuration information further comprises: CSI reporting being periodic reporting, or quasi-periodic reporting.

6. The method according to any one of claims 2 to 5, wherein the method further comprises:

receiving first information; and

acquiring the CSI reporting configuration information based on the first information.

7. A terminal device in a communication system, comprising:

a processor; and

a memory storing program instructions,

wherein the program instructions are executed by the processor, the terminal device is configured to:

determine, based on a first uplink slot where channel state information (CSI) reporting moment is located, a second downlink slot corresponding to the CSI reporting moment;

obtain a slot offset, wherein the slot offset is a slot offset of a location of a CSI reference resource on a time domain relative to the second downlink slot; and

determine a third downlink slot as the location of the CSI reference resource on the time domain, wherein the third downlink slot is obtained by subtracting the slot offset from the second downlink slot,

wherein the second downlink slot is determined according to the following formula:

$$n' = \left\lfloor n * \frac{2^{\mu_1}}{2^{\mu_2}} \right\rfloor$$

where n' represents the second downlink slot, n represents the first uplink slot, μ_1 is a μ value corresponding to a subcarrier spacing of a measurement resource or another resource related to downlink measurement, and μ_2 is a μ value corresponding to a subcarrier spacing of reported physical uplink control channel, PUCCH, or physical uplink shared channel, PUSCH, resource.

8. The terminal device according to claim 7, wherein, when the program instructions are executed by the processor, the terminal device is further configured to:

determine the slot offset based on downlink measurement resource configuration comprised in CSI reporting configuration information.

9. The terminal device according to claim 8, wherein, when the program instructions are executed by the processor, the terminal device is further configured to:

determine the slot offset based on a subcarrier spacing corresponding to the downlink measurement resource configuration comprised in the CSI reporting configuration information.

10. The terminal device according to claim 8 or 9, wherein

the downlink measurement resource configuration comprised in the CSI reporting configuration information further comprises: configuration of a measurement resource corresponding to CSI reporting.

11. The terminal device according to any one of claims 8 to 10, wherein

the CSI reporting configuration information further comprises: CSI reporting being periodic reporting, or quasi-periodic reporting.

12. The terminal device according to any one of claims 8 to 11, wherein, when the program instructions are executed by the processor, the terminal device is further configured to:

receive, through a transceiver, first information; and

acquire the CSI reporting configuration information based on the first information received by the transceiver.

13. A method for determining a resource location, implemented by a network device, the method comprising:

sending first information to a terminal device, wherein the first information carries at least channel state information (CSI) reporting configuration information, and downlink measurement resource configuration comprised in the CSI reporting configuration information is used for determining a slot offset, the slot offset being a slot offset of a location of a CSI reference resource on a time domain relative to a second downlink slot,

wherein the second downlink slot is determined according to the following formula:

$$n' = \left\lfloor n * \frac{2^{\mu_1}}{2^{\mu_2}} \right\rfloor$$

where n' represents the second downlink slot, n represents a first uplink slot where CSI reporting moment is located, μ_1 is a μ value corresponding to a subcarrier spacing of a measurement resource or another resource related to downlink measurement, and μ_2 is a μ value corresponding to a subcarrier spacing of reported physical uplink control channel, PUCCH, or physical uplink shared channel, PUSCH, resource.

14. The method according to claim 13, wherein the downlink measurement resource configuration comprised in the CSI reporting configuration information is used for determining the slot offset comprises:

a subcarrier spacing corresponding to the downlink measurement resource configuration comprised in the CSI reporting configuration information is used for determining the slot offset.

15. The method according to claim 13 or 14, wherein the CSI reporting configuration information further comprises: CSI reporting being periodic reporting or quasi-periodic reporting.

16. The method according to any one of claims 13-15, wherein the downlink measurement resource configuration comprised in the CSI reporting configuration information comprises: configuration of a measurement resource corresponding to CSI reporting.

17. A network device, comprising:
a processor; and
a memory storing program instructions,
wherein when the program instructions are executed by the processor, the network device is configured to:

send, through a transceiver, first information to a terminal device, wherein the first information carries at least channel state information (CSI) reporting configuration information, and downlink measurement resource configuration comprised in the CSI reporting configuration information is used for determining a slot offset, the slot offset being a slot offset of a location of a CSI reference resource on a time domain relative to a second downlink slot,

wherein the second downlink slot is determined according to the following formula:

$$n' = \left\lfloor n * \frac{2^{\mu_1}}{2^{\mu_2}} \right\rfloor$$

where n' represents the second downlink slot, n represents a first uplink slot where CSI reporting moment is located, μ_1 is a μ value corresponding to a subcarrier spacing of a measurement resource or another resource related to downlink measurement, and μ_2 is a μ value corresponding to a subcarrier spacing of reported physical uplink control channel, PUCCH, or physical uplink shared channel, PUSCH, resource.

18. The network device according to claim 17, wherein the downlink measurement resource configuration comprised in the CSI reporting configuration information is used for determining the slot offset comprises:

a subcarrier spacing corresponding to the downlink measurement resource configuration comprised in the CSI reporting configuration information is used for determining the slot offset.

19. The network device according to claim 17 or 18, wherein the CSI reporting configuration information further comprises: CSI reporting being periodic reporting or quasi-periodic reporting.

20. The network device according to any one of claims 17-19, wherein the downlink measurement resource configuration comprised in the CSI reporting configuration information comprises: configuration of a measurement resource corresponding to CSI reporting.