CLAIMS

1. A user equipment (UE) for wireless communication, comprising:

at least one memory; and

at least one processor coupled with the at least one memory and configured to cause the UE to:

determine time/frequency domain resources, or a reference signal (RS) or a RS set associated with reporting positioning related information, wherein the positioning related information includes at least one of timing related information, power related information, or phase related information; and

report the positioning related information determined based on the associated time/frequency domain resources, or RS or RS set.

2. The UE of claim 1, wherein the timing related information is associated with multiple paths in time domain.

3. The UE of claim 1, wherein the at least one processor is further configured to cause the UE to receive a signaling configuring a granularity of the timing related information.

4. The UE of claim 1, wherein the at least one processor is further configured to cause the UE to:

receive a signaling indicating one or multiple time domain patterns associated with multiple paths, each element of a time domain pattern of the one or multiple time domain patterns corresponding to the timing related information of a corresponding path of the multiple paths; and

report the timing related information by reporting a pattern index of the associated pattern.

5. The UE of claim 1, wherein the timing related information is associated with multiple paths, and the at least one processor is further configured to cause the UE to report a time domain position of each of the multiple paths.

6. The UE of claim 5, wherein the time domain position is an absolute time domain position, or a differential time domain position with respect to a previous time domain position or a predefined boundary.

7. The UE of claim 5, wherein the at least one processor is further configured to cause the UE to report a number of the multiple paths.

8. The UE of claim 1, wherein the at least one processor is further configured to cause the UE to receive a signaling indicating at least one time domain window.

9. The UE of claim 8, wherein the at least one processor is further configured to cause the UE to report part or all indexes of the at least one time domain window.

10. The UE of claim 7 or claim 8, wherein the at least one processor is further configured to cause the UE to report at least one time domain position of at least one path within a reported or configured time domain window.

11. The UE of claim 8, wherein each time domain window is associated with a starting position or a duration.

12. The UE of claim 1, wherein the at least one processor is further configured to cause the UE to:

receive a signaling indicating reporting at least one of the timing related information, the power related information, or the phase related information; and

determine that same time/frequency domain resources, or RS or RS set is associated with positioning related information reporting based on the signaling.

13. The UE of claim 1, wherein the at least one processor is further configured to cause the UE to:

receive one or more signaling, each indicating reporting at least one of the timing related information, the power related information, or the phase related information; and

determine that same time/frequency domain resources, or RS or RS set is associated with positioning related information reporting indicated by the one or more signaling in a case that the one or more signaling is within a configured or predefined time domain window.

14. The UE of claim 1, wherein the at least one processor is further configured to cause the UE to:

receive one or more signaling, each indicating a time instance of reporting at least one of the timing related information, the power related information, or the phase related information; and

determine that same time/frequency domain resources, or RS or RS set is associated with positioning related information reporting indicated by the one or more signaling in a case that reporting time instances indicated by the one or more signaling are within a configured or predefined time domain window.

15. The UE of claim 1, wherein the at least one processor is further configured to cause the UE to:

receive one or more signaling, each indicating a time instance of reporting at least one of the timing related information, the power related information, or the phase related information, wherein a reporting identity is associated with each positioning related information reporting; and

determine that same time/frequency domain resources, or RS or RS set is associated with corresponding positioning related information reporting in a case that a same reporting identity is associated with each reporting of the positioning related information.

16. The UE of claim 1, wherein the at least one processor is further configured to cause the UE to receive a signaling indicating at least one of time/frequency domain resources, or RS or RS set associated with the positioning related information reporting.

17. The UE of claim 13 or 14, wherein the configured or predefined time domain window is based on periodicity of the associated time/frequency domain resources, or RS or RS set.

18. A network equipment (NE) for wireless communication, comprising:

at least one memory; and

at least one processor coupled with the at least one memory and configured to cause the NE to:

transmit time/frequency domain resources, or a reference signal (RS) or a RS set associated with reporting positioning related information, wherein the positioning related information includes at least one of timing related information, power related information, or phase related information; and

receive reporting of the positioning related information determined based on the associated time/frequency domain resources, or RS or RS set.

19. A method performed by a user equipment (UE), the method comprising:

determining time/frequency domain resources, or a reference signal (RS) or a RS set associated with reporting positioning related information, wherein the positioning related information includes at least one of timing related information, power related information, or phase related information; and

reporting the positioning related information determined based on the associated time/frequency domain resources, or RS or RS set.

20. A method performed by a network equipment (NE) for wireless communication, the method comprising:

transmitting time/frequency domain resources, or a reference signal (RS) or a RS set associated with reporting positioning related information, wherein the positioning related information includes at least one of timing related information, power related information, or phase related information; and

receiving reporting of the positioning related information determined based on the associated time/frequency domain resources, or RS or RS set.