C L A I M S

1. A wireless communication method for use in a wireless terminal, comprising:

transmitting an uplink, UL, signal,

wherein, based on an event associated with a first downlink, DL, reference signal, RS, the UL signal is modulated according to a specific carrier frequency,

wherein the first DL RS is determined according to a first parameter state applied to the UL signal, and

wherein the first DL RS is a reference RS in the first parameter state and relates to at least one of a carrier frequency or a Doppler shift.

2. The wireless communication method of claim 1, wherein the event is one of being indicated that the UL signal does not refer to the first DL RS or refers to a local carrier frequency, or the first DL RS is not configured, and

wherein the specific carrier frequency is the local carrier frequency or a carrier frequency of the wireless terminal.

3. The wireless communication method of claim 1, wherein the event is that the UL signal is associated to the first DL RS, and

wherein the specific carrier frequency is a carrier frequency of the first DL RS.

4. The wireless communication method of any of claims 1 to 3, wherein the specific carrier frequency is applied according to an applicable time that is determined according to a command associated with the first DL RS, a command associated with a parameter state comprising the first DL RS, or at least one sample of the first DL RS.

5. The wireless communication method of any of claims 1 to 5, wherein the first DL RS is configured with a physical cell index and a reference RS with regard to a QCL type parameter.

6. The wireless communication method of any of claims 1 to 6, wherein a parameter state comprising the first DL RS is activated with a third parameter state which comprises a reference RS with regard to a QCL type parameter,

wherein preferably:

a QCL assumption of the first DL RS is determined according to the third parameter state, or the third parameter state is applied to the first DL RS, or

the parameter state comprising the first DL RS is activated for a physical DL control channel, PDCCH, a physical DL shared channel, PDSCH, a physical UL control channel, PUCCH, or a physical UL shared channel, PUSCH, and

wherein preferably the parameter state comprising the first DL RS is determined based on at least one of:

a hybrid automatic repeat request acknowledge, HARQ-Ack, message corresponding a PDSCH carrying a MAC-CE which activates the parameter state comprising the first DL RS,

a RS transmission occasion, or

DL control information triggering the transmission of the first DL RS.

7. A wireless communication method for use in a wireless network node, comprising:

transmitting, to a wireless terminal, a first downlink, DL, reference signal, RS, and

receiving, from the wireless terminal, an uplink, UL, signal,

wherein, based on an event associated with the first DL RS, the UL signal is modulated according to a specific carrier frequency,

wherein the first DL RS is determined according to a first parameter state applied to the UL signal, and wherein the first DL RS is a reference RS in the first parameter state and relates to at least one of a carrier frequency or a Doppler shift..

8. The wireless communication method of claim 8, wherein the event is one of being indicated that the UL signal does not refer to the first DL RS or refers to a local carrier frequency, or the first DL RS is not configured, and

wherein the specific carrier frequency is the local carrier frequency or a carrier frequency of the wireless terminal.

9. The wireless communication method of claim 8, wherein the event is that the UL signal is associated to the first DL RS, and
wherein the specific carrier frequency is a carrier frequency of the first DL RS.

10. The wireless communication method of any of claims 8 to 10, wherein the specific carrier frequency is applied according to an applicable time that is determined according to a command associated with the first DL RS, a command associated with a parameter state comprising the first DL RS, or at least one sample of the first DL RS.

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11. The wireless communication method of any of claims 8 to 12, wherein the first DL RS is configured with a physical cell index and a reference RS with regard to a QCL type parameter.

12. The wireless communication method of any of claims 8 to 13, wherein a parameter state comprising the first DL RS is activated with a third parameter state which comprises a reference RS with regard to a QCL type parameter,
wherein preferably:
a QCL assumption of the first DL RS is determined according to the third parameter state, or the third parameter state is applied to the first DL RS, or
the parameter state comprising the first DL RS is activated for a physical DL control channel, PDCCH, a physical DL shared channel, PDSCH, a physical UL control channel, PUCCH, or a physical UL shared channel, PUSCH, and
wherein preferably the parameter state comprising the first DL RS is determined based on at least one of:

a hybrid automatic repeat request acknowledge, HARQ-Ack, message corresponding a PDSCH carrying a MAC-CE which activates the parameter state comprising the first DL RS,

a RS transmission occasion, or

DL control information triggering the transmission of the first DL RS.

13. A wireless terminal, comprising:

a communication unit, configured to:

transmit an uplink, UL, signal,

wherein, based on an event associated with a first downlink, DL, reference signal, RS, the UL signal is modulated according to a specific carrier frequency,

wherein the first DL RS is determined according to a first parameter state applied to the UL signal, and wherein the first DL RS is a reference RS in the first parameter state and relates to at least one of a carrier frequency or a Doppler shift.