

C L A I M S

1. A wireless communication method, comprising:
receiving, at a first communication node, interference status information indicative of a remote interference between the first communication node and a second communication node;
and
performing, by the first communication node, subsequent communications to the second communication node by implementing a backoff based on a granularity.
2. The method of claim 1, comprising:
receiving, at the first communication node, a first reference signal from the second communication node indicating the remote interference.
3. The method of claim 2, wherein the reference signal carries a first identifier of the second communication node.
4. The method of any of claims 1 to 3, wherein the first communication node and the second communication agree to operate using a maximum downlink transmission boundary and a maximum uplink transmission boundary within a downlink-uplink switching period.
5. The method of claim 1, wherein the backoff includes backing off transmission power according to a power granularity, or refraining from transmitting on a number of symbols according to a symbol granularity between a last downlink symbol configured by the second communication node and the maximum downlink transmission boundary, or a second time-domain distance between a first uplink symbol configured by the second communication node and the maximum uplink transmission boundary.
6. The method of any of claims 1 to 5, wherein the interference cancellation status information includes one or more of an ACK, a NACK, a dB value, a symbol count, a backoff time and an indication of the remote interference received at the second communication node.
7. The method of any of claims 1 to 6, wherein the first communication node adjusts the granularity based on a message from the second communication node.

8. The method of any of claims 1 to 7, wherein the information is received via an air interface or a backhaul signaling message.
9. The method of any of claims 1 to 8, wherein performing the subsequent communications includes:
 - performing, by the first communication node, an interference mitigation scheme based on the information.
10. The method of claim 9, comprising:
 - terminating, by the first communication node, the mitigation scheme.
11. The method of claim 9 or 10, wherein performing the mitigation scheme comprises:
 - transmitting, by the first communication node, a second reference signal based on a parameter, wherein the parameter indicates that the second reference signal is transmitted for indicating whether an atmospheric ducting phenomenon persists.
12. A method of wireless communication, comprising:
 - transmitting, by a first communication node, a first reference signal indicative of presence of remote interference between the first communication node and a second communication node, wherein time domain positions of the first reference signal includes one of a last symbol before a maximum downlink transmission boundary for transmissions between the first communication node and the second communication node, or an Nth symbol prior to the transmission boundary, where N is an integer greater than 1.
13. The method of claim 12, wherein N is a function of at least one of the following parameters: subcarrier spacing, a transmission distance between the first communication node and the second communication node, a transmission delay between the first communication node and the second communication node, or a number of flexible symbols after the maximum downlink transmission boundary.
14. The method of any of claims 12 to 13, wherein N is semi-persistently scheduled for the

first communication node.

15. A method of wireless communication, comprising:

transmitting, by a first communication node, a first reference signal indicative of presence of remote interference between the first communication node and a second communication node, wherein the first reference signal is transmitted in preconfigured time periods and wherein the first reference signal is transmitted at multiple occasions in each time period; and

communicating an ID information associated with the first communication node using the first reference signal.

16. The method of claim 15 wherein the ID information associated with the first communication node is an identifier of the first communication node or an identifier of a set to which the first communication node belongs.

17. The method of claim 15 or 16, wherein transmissions of the first reference signal in occasions in a given time period all carry a same subset of bits of the ID information.

18. The method of claim 15 or 16, wherein transmissions of the first reference signal include N successive bits of the ID information, where N is an integer.

19. The method of claim 15 or 16, wherein the ID information is communicated in bit portions, wherein each bit portion having a size M is transmitted in M successive transmissions of the first reference signal, where M is an integer.

20. The method of claim 15 or 16, wherein the preconfigured time periods include at least a first time period P1 and a second time period P2 and wherein different portions of the identifier are transmitted in transmissions during P1 and P2.

21. A method of wireless communication comprising:

transmitting, from a first communication node, a first reference signal related to a first interference on an inbound channel to the first communication node and a second reference

signal related to a second interference on an outbound channel from the first communication node, wherein the first reference signal and the second reference signal are transmitted in a non-overlapping manner.

22. The method of claim 21, wherein the non-overlapping manner includes a dual cycle manner comprising a first cycle in which the first reference signal is transmitted and a second cycle that is non-overlapping with the first cycle in which the second reference signal is transmitted.

23. The method of claim 21-22, wherein a first period of the first cycle and a second period of the second cycle are configured via a high layer message.

24. The method of any of claims 21 to 23, wherein the first cycle and the second cycle have durations that are different.

25. The method of claim 24, wherein one of the first cycle and the second cycle is repeated more often than the other of the first cycle and the second cycle.

26. The method of claim 21, wherein the non-overlapping manner includes periodically sending the first reference and the second reference signal beginning at different offsets in each period.

27. The method of claim 21, wherein the first reference signal and the second reference signal have different transmission densities in the first cycle and the second cycle, respectively.

28. A wireless communication apparatus, comprising a processor configured to implement a method recited in any one or more of claims 1 to 27.

29. A computer program product having code stored thereon, the code, when executed by a processor, causing the processor to implement a method recited in any one or more of claims 1 to 27.