

Claims

1. A method (800) of wireless communication, comprising:
5 receiving a resource assignment on a downlink assignment channel,
the resource assignment comprising a grant of time–frequency
resources for receiving first data on a downlink data channel during a
first transmission time interval, TTI;
10 receiving the first data on the downlink data channel during the first
TTI; and
receiving control information on a downlink control channel during a
second TTI shorter in duration than the first TTI, the control
information being configured to modify the grant of time–frequency
15 resources for the first data received on the downlink data channel
during the first TTI,
wherein the second TTI overlaps with a portion of the first TTI.
2. The method of claim 1, further comprising:
20 processing the first data, while ignoring a portion of the first data as
indicated by the received control information.
3. A method (800) of wireless communication operable at a user
equipment, UE, comprising:
25 receiving a first resource assignment on a downlink assignment
channel, the first resource assignment comprising a grant of time–
frequency resources corresponding to first data on a downlink data
channel during a first transmission time interval, TTI;
receiving control information on a downlink control channel during a
second TTI shorter in duration than the first TTI, the control
30 information comprising a grant of time–frequency resources
corresponding to second data on the downlink data channel during
the second TTI; and
receiving second data on the downlink data channel during the
second TTI,
35 wherein the second TTI overlaps with a portion of the first TTI.

4. The method of claim 3, wherein the first resource assignment is configured to grant time–frequency resources to a set of one or more subordinate entities not including the UE.
5. A method (1200) of wireless communication, comprising:
receiving a resource assignment on a downlink assignment channel, the resource assignment comprising a grant of time–frequency resources for transmitting user data on an uplink data channel during a first transmission time interval, TTI;
transmitting the user data on the uplink data channel during the first TTI;
receiving an uplink grant modification on a downlink control channel during a second TTI shorter in duration than the first TTI, the uplink grant modification comprising information indicating that the grant of time–frequency resources is modified, and identifying time–frequency resources during which to modify the transmission of the user data; and
modifying the transmission of the user data according to the uplink grant modification,
wherein the second TTI overlaps with a portion of the first TTI.
6. The method of claim 5, wherein the modifying of the transmission of the user data comprises puncturing the user data.
7. The method of claim 5, wherein the modifying of the transmission of the user data comprises modifying a rate matching algorithm to account for data losses in accordance with the modified transmission of the user data.
8. A method (1200) of wireless communication operable at a user equipment, UE, comprising:
receiving a first resource assignment on a downlink assignment channel, the first resource assignment comprising a grant of time–

- frequency resources corresponding to first data on an uplink data channel during a first transmission time interval, TTI;
transmitting a scheduling request on an uplink feedback channel, the scheduling request being configured to request a grant of time–
5 frequency resources for second data;
receiving control information on a downlink control channel during a second TTI shorter in duration than the first TTI, the control information comprising a grant of time–frequency resources corresponding to second data on the uplink data channel during a
10 third TTI shorter in duration than the first TTI; and
transmitting the second data on the uplink channel during the third TTI in accordance with the granted time–frequency resources.
9. The method of claim 8, wherein the scheduling request is transmitted
15 on the uplink feedback channel utilizing the second TTI.
10. The method of claim 8, wherein the first resource assignment is configured to grant time–frequency resources to a set of one or more subordinate entities not including the UE.
- 20 11. A user equipment, UE, (502) configured for wireless communication, comprising:
means for receiving a resource assignment on a downlink assignment channel, the resource assignment comprising a grant of time–
25 frequency resources for receiving first data on a downlink data channel during a first transmission time interval, TTI;
means for receiving the first data on the downlink data channel during the first TTI; and
means for receiving control information on a downlink control
30 channel during a second TTI shorter in duration than the first TTI, the control information being configured to modify the grant of time–frequency resources for the first data received on the downlink data channel during the first TTI,
wherein the second TTI overlaps with a portion of the first TTI.

12. A user equipment, UE, (504) configured for wireless communication, comprising:
 - means for receiving a first resource assignment on a downlink assignment channel, the first resource assignment comprising a grant of time–frequency resources corresponding to first data on a downlink data channel during a first transmission time interval, TTI;
 - means for receiving control information on a downlink control channel during a second TTI shorter in duration than the first TTI, the control information comprising a grant of time–frequency resources corresponding to second data on the downlink data channel during the second TTI; and
 - means for receiving second data on the downlink data channel during the second TTI,
 wherein the second TTI overlaps with a portion of the first TTI.

13. A user equipment, UE, (902, 1102) configured for wireless communication, comprising:
 - means for receiving a resource assignment on a downlink assignment channel, the resource assignment comprising a grant of time–frequency resources for transmitting user data on an uplink data channel during a first transmission time interval, TTI;
 - means for transmitting the user data on the uplink data channel during the first TTI;
 - means for receiving an uplink grant modification on a downlink control channel during a second TTI shorter in duration than the first TTI, the uplink grant modification comprising information indicating that the grant of time–frequency resources is modified, and identifying time–frequency resources during which to modify the transmission of the user data; and
 - means for modifying the transmission of the user data according to the uplink grant modification,
 wherein the second TTI overlaps with a portion of the first TTI.

14. A user equipment, UE, (904, 1104) configured for wireless communication, comprising:
means for receiving a first resource assignment on a downlink assignment channel, the first resource assignment comprising a grant of time–frequency resources corresponding to first data on an uplink data channel during a first transmission time interval, TTI;
5 means for transmitting a scheduling request on an uplink feedback channel, the scheduling request being configured to request a grant of time–frequency resources for second data;
10 means for receiving control information on a downlink control channel during a second TTI shorter in duration than the first TTI, the control information comprising a grant of time–frequency resources corresponding to second data on the uplink data channel during a third TTI shorter in duration than the first TTI; and
15 means for transmitting the second data on the uplink channel during the third TTI in accordance with the granted time–frequency resources.
15. A computer-readable medium storing computer-executable code, that
20 causes a computer to perform a method according to any of the claims 1 to 10 when run by the computer.