CLAIMS

1. A method of wireless communication operable at a subordinate entity (104), comprising:

wirelessly communicating with a scheduling entity (102) utilizing a first transmission time interval TTI over a first carrier, the first carrier being a time division duplex TDD carrier; and

wirelessly communicating with the scheduling entity (102) utilizing a second TTI different from the first TTI and overlapping a portion of the first TTI, over a second carrier paired with the first carrier but separated from the first carrier in frequency, wherein the second TTI is shorter in duration than the first TTI.

2. The method of claim 1, wherein the second carrier comprises at least one control channel for controlling data transmissions on the first carrier.

3. The method of claim 1, wherein the second carrier is a frequency division duplex FDD carrier.

4. The method of claim 3, further comprising:

transmitting a scheduling request to the scheduling entity (102) on a feedback channel on the FDD carrier;

receiving an uplink grant from the scheduling entity (102) on the FDD carrier in response to the scheduling request, the uplink grant configured to identify granted resources on the TDD carrier for an uplink data transmission utilizing the second TTI; and

transmitting the uplink data to the scheduling entity (102) utilizing the second TTI in accordance with the uplink grant.

5. The method of claim 3, further comprising:

receiving from the scheduling entity (102) a grant modification on the FDD carrier, the grant modification configured to modify an existing grant of resources for an uplink data transmission utilizing the first TTI; and

driving a zero input to a power amplifier associated with a transceiver to suspend uplink transmissions in accordance with the grant modification.

6. The method of claim 3, further comprising:

receiving a downlink grant from the scheduling entity (102) on a grant channel on the FDD carrier utilizing the second TTI; and

receiving downlink data corresponding to the downlink grant from the scheduling entity (102) on the TDD carrier utilizing the second TTI; and optionally

wherein the downlink grant and the downlink data corresponding to the downlink grant are received simultaneous to one another.

7. The method of claim 3, further comprising:

receiving and buffering a downlink grant from the scheduling entity (102) on a grant channel on the FDD carrier utilizing the second TTI, while transmitting uplink data on the TDD carrier.

8. The method of claim 3, further comprising:

receiving from the scheduling entity (102) a grant modification on the FDD carrier, the grant modification configured to modify an existing grant of resources for downlink data utilizing the first TTI; and

modifying reception of the downlink data on the TDD carrier utilizing the first TTI in accordance with the grant modification; and optionally

wherein the modifying reception of the downlink data comprises suspending reception of the downlink data during at least one second TTI.

9. The method of claim 1, wherein the second carrier is a TDD carrier having a conjugate pairing with the first carrier, wherein at least a portion of time slots in the first carrier are complementary in direction to a direction of time-aligned time slots in the second carrier.

10. The method of claim 9, further comprising:

transmitting a scheduling request to a scheduling entity (102) on a feedback channel on the first carrier;

receiving an uplink grant from the scheduling entity (102) on the second carrier in response to the scheduling request, the uplink grant configured to identify granted resources on the first carrier for an uplink data transmission utilizing the second TTI; and

transmitting the uplink data to the scheduling entity (102) utilizing the second TTI in accordance with the uplink grant.

11. The method of claim 9, further comprising

receiving a grant modification on the second carrier, the grant modification configured to modify an existing grant of resources for an uplink data transmission utilizing the first TTI; and

modifying the uplink data transmission in accordance with the grant modification; and optionally

wherein the modifying the uplink data comprises suspending transmission of the uplink data.

12. The method of claim 9 further comprising:

receiving a downlink grant from a scheduling entity (102) on a grant channel on the second carrier utilizing the second TTI; and

receiving downlink data corresponding to the downlink grant, from the scheduling entity (102) on the first carrier utilizing the second TTI; and optionally

wherein the downlink grant and the downlink data are received simultaneous to one another.

13. The method of claim 9, further comprising:

receiving and buffering a downlink grant from a scheduling entity (102) on a grant channel on the second carrier utilizing the second TTI, while transmitting uplink data on the first carrier utilizing the first TTI.

14. The method of claim 9, further comprising:

transmitting a scheduling request to a scheduling entity (102) on a feedback channel on the second carrier;

receiving an uplink grant from the scheduling entity (102) in response to the scheduling request, the uplink grant configured to identify granted resources on the first carrier for an uplink data transmission utilizing the second TTI; and

transmitting the uplink data to the scheduling entity (102) utilizing the second TTI on the first carrier in accordance with the uplink grant; and optionally

wherein the grant modification and the downlink data are received simultaneous to one another.

15. The method of claim 9, further comprising:

receiving from the scheduling entity (102) a grant modification on the first carrier, the grant modification configured to modify an existing grant of resources for downlink data utilizing the first TTI; and

modifying reception of the downlink data on the second carrier utilizing the first TTI in accordance with the grant modification; and optionally

wherein the modifying reception of the downlink data comprises suspending reception of the downlink data during at least one second TTI.

16. A subordinate entity (104) configured for wireless communication, comprising means for carrying out the method of any one of claims 1 to 15.

17. A computer-readable medium storing computer-executable code on a subordinate entity (104) configured for wireless communication, comprising instructions for causing a computer to carry out the method of any one of claims 1 to 15.