

CLAIMS

1. A wireless communication method, comprising:
transmitting, by a base station to a mobile station, a radio resource control (RRC) message which includes resource information corresponding to one or more resource pools, wherein the RRC message comprises a resource pool index corresponding to each of the one or more resource pools; and
transmitting, to the mobile station, a resource pool index within a downlink control information (DCI) indicating at least one designated resource pool from the one or more resource pools and designated resources from within the at least one designated resource pool such that the mobile station is permitted to communicate with a wireless device in communication with the mobile station via a wireless link using the at least one designated resource pool.
2. A device for wireless communication, comprising:
a processor configured to:
receive, by a mobile station, a radio resource control (RRC) message that includes resource information corresponding to one or more resource pools, wherein the RRC message comprises a resource pool index corresponding to each of the one or more resource pools; and
receive, by the mobile station, a resource pool index within a downlink control information (DCI) indicating at least one designated resource pool from the one or more resource pools and designated resources from within the at least one designated resource pool such that communications between the mobile station and a wireless device is permitted via a wireless link between the mobile station and the wireless device using the at least one designated resource pool.
3. The method of claim 1, wherein a resource pool of the one or more resource pools corresponds to at least one sub-frame and at least one resource block within the at least one sub-frame.
4. The method of claim 1, wherein the DCI is carried on a physical downlink control channel (PDCCH).

5. The method of claim 1, wherein the resource information further comprises a transmit power control (TPC) command, a resource block assignment and hopping allocation, or a time resource pattern.
6. The method of claim 1, wherein the wireless link is configured to support a sidelink channel for proximity services.
7. The device of claim 2, wherein a resource pool of the one or more resource pools corresponds to at least one sub-frame and at least one resource block within the at least one sub-frame.
8. The device of claim 2, wherein the DCI is carried on a physical downlink control channel (PDCCH).
9. The device of claim 2, wherein the resource information further comprises a transmit power control (TPC) command, a resource block assignment and hopping allocation, or a time resource pattern.
10. The device of claim 2, wherein the wireless link is configured to support a sidelink channel for proximity services.
11. A device for wireless communication, comprising:
 - a processor configured to:
 - transmit, by a base station to a mobile station, a radio resource control (RRC) message which includes resource information corresponding to one or more resource pools, wherein the RRC message comprises a resource pool index corresponding to each of the one or more resource pools; and
 - transmit, to the mobile station, a resource pool index within a downlink control information (DCI) indicating at least one designated resource pool from the one or more resource pools and designated resources from within the at least one designated resource pool such that the mobile station is permitted to communicate with a wireless device in communication with the mobile station via a wireless link using the at least one designated resource pool.

12. The device of claim 11, wherein a resource pool of the one or more resource pools corresponds to at least one sub-frame and at least one resource block within the at least one sub-frame.
13. The device of claim 11, wherein the DCI is carried on a physical downlink control channel (PDCCH).
14. The device of claim 11, wherein the resource information further comprises a transmit power control (TPC) command, a resource block assignment and hopping allocation, or a time resource pattern.
15. The device of claim 11, wherein the wireless link is configured to support a sidelink channel for proximity services.
16. A wireless communication method, comprising:
 - receiving, by a mobile station, a radio resource control (RRC) message that includes resource information corresponding to one or more resource pools, wherein the RRC message comprises a resource pool index corresponding to each of the one or more resource pools; and
 - receiving, by the mobile station, a resource pool index within a downlink control information (DCI) indicating at least one designated resource pool from the one or more resource pools and designated resources from within the at least one designated resource pool such that communications between the mobile station and a wireless device is permitted via a wireless link between the mobile station and the wireless device using the at least one designated resource pool.
17. The method of claim 16, wherein a resource pool of the one or more resource pools corresponds to at least one sub-frame and at least one resource block within the at least one sub-frame.
18. The method of claim 16, wherein the DCI is carried on a physical downlink control channel (PDCCH).
19. The method of claim 16, wherein the resource information further comprises a transmit power control (TPC) command, a resource block assignment and hopping allocation, or a time resource pattern.

20. The method of claim 16, wherein the wireless link is configured to support a sidelink channel for proximity services.