

CLAIMS

1. A method for wireless communications by a user equipment (UE), comprising:
receiving higher layer signaling, from a base station (BS), semi-statically configuring a plurality of resource allocation patterns at the UE, wherein each of the plurality of configured resource allocation patterns indicates a first one or more resources available to use for physical downlink shared channel (PDSCH) communication with the BS and indicates a second one or more resources excluded for PDSCH communication with the BS;
receiving, from the BS, dynamic control signaling indicating at least one of the configured plurality of resource allocation patterns to use for communicating; and
communicating based on the indicated at least one resource allocation pattern.
2. The method of claim 1, wherein the indication of the at least one of the configured plurality of resource allocation patterns is based on at least one parameter associated with a transmission.
3. The method of claim 2, wherein the at least one parameter comprises a service type for the transmission.
4. The method of claim 3, wherein the service type comprises at least one of: enhanced mobile broadband (eMBB), ultra-reliable low latency communication (URLLC), mission critical (MiCr), or massive machine type communications (mMTC).
5. The method of claim 2, wherein the at least one parameter comprises a slot configuration for the transmission.
6. The method of claim 2, wherein the at least one parameter comprises at least one of: whether the transmission is for uplink, downlink, or sidelink; a component-carrier (CC) used for the transmission; a subband used for the transmission; a transmission time interval (TTI) length of the transmission; a channel used for the transmission; a subframe used for the transmission; or a location of the UE in a cell.
7. The method of claim 1, wherein each of the plurality of resource allocation patterns

defines at least one of: contiguous resources or non-contiguous resources to use for the communicating.

8. The method of claim 1, wherein the first one or more resources and the second one or more resources are associated with different frequency resources in a same symbol.

9. The method of claim 1, wherein the first one or more resources is associated with a first symbol and the second one or more resources is associated with a second symbol, and wherein the second symbol is different from the first symbol.

10. The method of claim 1, wherein each of the plurality of resource allocation patterns defines a first transmit power higher for a third one or more resources and a second transmit power for a fourth one or more resources.

11. The method of claim 1, wherein the indicated resource allocation pattern is UE-specific.

12. The method of claim 1, wherein each of the resource allocation patterns indicates the first one or more resources and the second one or more resources at a per resource element (RE), per tone, per symbol, or per resource block (RB) granularity.

13. The method of claim 1, wherein the higher layer signaling comprises radio resource control (RRC) signaling.

14. An apparatus for wireless communications by a user equipment (UE), comprising:
a transceiver configured to:

receive higher layer signaling, from a base station (BS), semi-statically configuring a plurality of resource allocation patterns at the UE, wherein each of the plurality of configured resource allocation patterns indicates a first one or more resources available to use for physical downlink shared channel (PDSCH) communication with the BS and indicates a second one or more resource elements excluded for PDSCH communication with the BS; and
at least one processor coupled with a memory and configured to:

receive, from the BS, dynamic control signaling indicating at least one of the configured plurality of resource allocation patterns to use for communicating, wherein the transceiver is configured to:

communicate based on the indicated at least one resource allocation pattern.

15. The apparatus of claim 14, wherein the higher layer signaling comprises radio resource control (RRC) signaling.

16. An apparatus for wireless communications, comprising:

means for receiving higher layer signaling, from a base station (BS), semi-statically configuring a plurality of resource allocation patterns at the apparatus, wherein each of the plurality of configured resource allocation patterns indicates a first one or more resources available to use for physical downlink shared channel (PDSCH) communication with the BS and indicates a second one or more resources excluded for PDSCH communication with the BS;

means for receiving, from the BS, dynamic control signaling indicating at least one of the configured plurality of resource allocation patterns to use for communicating; and

means for communicating based on the indicated at least one resource allocation pattern.

17. The apparatus of claim 16, wherein the indication of the at least one of the configured plurality of resource allocation patterns is based on at least one parameter associated with a transmission.

18. The apparatus of claim 17, wherein the at least one parameter comprises a service type for the transmission.

19. The apparatus of claim 18, wherein the service type comprises at least one of: enhanced mobile broadband (eMBB), ultra-reliable low latency communication (URLLC), mission critical (MiCr), or massive machine type communications (mMTC).

20. The apparatus of claim 17, wherein the at least one parameter comprises a slot configuration for the transmission.

21. The apparatus of claim 17, wherein the at least one parameter comprises at least one of:

whether the transmission is for uplink, downlink, or sidelink; a component-carrier (CC) used for the transmission; a subband used for the transmission; a transmission time interval (TTI) length of the transmission; a channel used for the transmission; a subframe used for the transmission; or a location of the apparatus in a cell.

22. The apparatus of claim 16, wherein each of the plurality of resource allocation patterns defines at least one of: contiguous resources or non-contiguous resources to use for the communicating.

23. The apparatus of claim 16, wherein the first one or more resources is associated with a first symbol and the second one or more resources is associated with a second symbol, and wherein the second symbol is different from the first symbol.

24. The apparatus of claim 16, wherein each of the plurality of resource allocation patterns defines a first transmit power for a third one or more resources higher than a second transmit power for a fourth one or more resources.

25. The apparatus of claim 16, wherein the higher layer signaling comprises radio resource control (RRC) signaling.

26. A non-transitory computer readable medium having computer executable code stored thereon for wireless communications by a user equipment (UE), comprising:

code for receiving higher layer signaling, from a base station (BS), semi-statically configuring a plurality of resource allocation patterns at the UE, wherein each of the plurality of configured resource allocation patterns indicates a first one or more resources available to use for physical downlink shared channel (PDSCH) communication with the BS and indicates a second one or more resources excluded for PDSCH communication with the BS;

code for receiving, from the BS, dynamic control signaling indicating at least one of the configured plurality of resource allocation patterns to use for communicating; and

code for communicating based on the indicated at least one resource allocation pattern.

27. The non-transitory computer readable medium of claim 26, wherein the higher layer signaling comprises radio resource control (RRC) signaling.