CLAIMS

1. A wireless transmit/receive unit (WTRU) comprising:

an antenna; and

a processor operatively coupled to the antenna, wherein:

the processor and the antenna are configured to receive downlink control information (DCI) comprising an assignment of resources for a downlink transmission;

the processor is further configured to determine, based on an indication included in the DCI, that one or more subresources within the assigned resources are reserved, wherein the one or more subresources are configured via radio resource control (RRC) signaling; and

wherein the one or more subresources are determined by a resource block level bitmap in a frequency domain and a symbol level bitmap in a time domain; and

the processor and the antenna are further configured to receive the downlink transmission in a portion of the assigned resources, wherein the portion excludes the one or more subresources.

2. The WTRU of claim 1, wherein the one or more subresources comprise a subset of resource blocks and symbols within the assigned resources.

3. The WTRU of claim 1, wherein the one or more subresources are configured with a subcarrier spacing.

4. The WTRU of claim 1, wherein the one or more subresources are configured with a time-domain pattern for repetition.

5. The WTRU of claim 1, wherein the resource block level bitmap and the symbol level bitmap are configured via RRC signaling.

6. The WTRU of claim 1, wherein the one or more subresources comprise a first group of subresources out of a plurality of subresources configured via RRC signaling.

7. A method for use by a wireless transmit/receive unit (WTRU), the method comprising:

receiving downlink control information (DCI) comprising an assignment of resources for a downlink transmission;

determining, based on an indication included in the DCI, that one or more subresources within the assigned resources are reserved, wherein the one or more subresources are configured via radio resource control (RRC) signaling; and

wherein the one or more subresources are determined by a resource block level bitmap in a frequency domain and a symbol level bitmap in a time domain; and

receiving the downlink transmission in a portion of the assigned resources, wherein the portion excludes the one or more subresources.

8. The method of claim 7, wherein the one or more subresources comprise a subset of resource blocks and symbols within the assigned resources.

9. The method of claim 7, wherein the one or more subresources are configured with a subcarrier spacing.

10. The method of claim 7, wherein the one or more subresources are configured with a time-domain pattern for repetition.

11. The method of claim 7, wherein the resource block level bitmap and the symbol level bitmap are configured via RRC signaling.

12. The method of claim 7, wherein the one or more subresources comprise a first group of subresources out of a plurality of subresources configured via RRC signaling.

13. A base station comprising:

an antenna; and

a processor operatively coupled to the antenna, wherein:

the processor and the antenna are configured to send downlink control information (DCI) comprising an assignment of resources for a downlink transmission and an indication that one or more subresources within the assigned resources are reserved, wherein the one or more subresources are configured via radio resource control (RRC) signaling; and

wherein the one or more subresources are determined by a resource block level bitmap in a frequency domain and a symbol level bitmap in a time domain; and

the processor and the antenna are further configured to send the downlink transmission in a portion of the assigned resources, wherein the portion excludes the one or more subresources.

14. The base station of claim 13, wherein the one or more subresources comprise a subset of resource blocks and symbols within the assigned resources.

15. The base station of claim 13, wherein the one or more subresources are configured with a subcarrier spacing.

16. The base station of claim 13, wherein the one or more subresources are configured with a time-domain pattern.

17. The base station of claim 13, wherein the resource block level bitmap and the symbol level bitmap are configured via RRC signaling.