11. A method for allocation processing implemented in a wireless transmit/receive unit (WTRU), comprising:

processing, by the WTRU, downlink (DL) signaling channel reception requirements of a plurality of channel allocation procedures; and

determining, by the WTRU, whether to utilize a DL signaling channel according to at least one predetermined signaling procedure using at least one synchronous hybrid automatic repeat request (HARQ) process that enables reception of the DL signaling channel in accordance with a preconfigured schedule.

11. The method of claim 1, wherein the DL EU signaling channel is a relative grant channel or an absolute grant channel.

12. The method of claim 2, wherein the at least one respective DL signaling channel is a relative grant channel or an absolute grant channel.

13. The method of claim 3, wherein the at least one DL EU signaling channel is a relative grant channel or an absolute grant channel.

14. A wireless transmit/receive unit (WTRU) for use in a wireless communication system to selectively enable reception of at least one downlink (DL) signaling channel, the WTRU comprising:

a transmitter configured to send a channel allocation request;

a receiver configured to enable reception of at least one DL signaling channel in order to receive expected channel allocation information, wherein the expected channel allocation information is responsive to the channel allocation request sent by the WTRU; and

the receiver further configured to disable reception of at least one DL signaling channel on at least one condition of that reception of channel allocation information is not expected or reception of the DL signaling channel is not required.

15. The WTRU of claim 14 wherein the receiver further configured to enable reception of the at least one DL signaling channel for a predetermined time or time period.

16. The WTRU of claim 14 wherein the receiver further configured to enable or disable reception of the at least one DL signaling channel on a periodic basis.

17. The WTRU of claim 14 wherein the transmitter further configured to send the channel allocation request over an uplink (UL) channel.

18. A wireless transmit/receive unit (WTRU) for use in a wireless communication system to selectively enable reception of at least one downlink (DL) signaling channel, the WTRU comprising:

a receiver configured to enable reception of at least one DL signaling channel in order to receive expected data transmission feedback information in response to data sent by the WTRU; and

the receiver further configured to disable reception of at least one DL signaling channel on at least one condition of that reception of data transmission feedback information is not expected or the DL signaling channel is not required.

19. The WTRU of claim 18 wherein the receiver further configured to enable reception of the at least one DL signaling channel for a predetermined time or time period.

20. The WTRU of claim 18 wherein the receiver further configured to enable or disable reception of the at least one DL signaling channel on a periodic basis.

21. The WTRU of claim 18 wherein the expected data transmission feedback information includes an acknowledge (ACK) message or a non-acknowledge (NACK) message.

22. A method performed by a wireless transmit/receive unit (WTRU) to selectively enable reception of at least one downlink (DL) signaling channel, the method comprising:

sending a channel allocation request;

enabling reception of at least one DL signaling channel in order to receive expected channel allocation information, wherein the expected channel allocation information is responsive to the channel allocation request sent by the WTRU; and

disabling reception of at least one DL signaling channel on at least one condition of that reception of channel allocation information is not expected or reception of the DL signaling channel is not required.

23. A method performed by a wireless transmit/receive unit (WTRU) to selectively enable reception of at least one downlink (DL) signaling channel, the method comprising:

enabling reception of at least one DL signaling channel in order to receive expected data transmission feedback information in response to data sent by the WTRU; and

disabling reception of at least one DL signaling channel on at least one condition of that reception of data transmission feedback information is not expected or the DL signaling channel is not required.

24. A wireless communication device for use in a wireless communication system, the wireless communication device comprising:

a transmitter configured to transmit configuration information to a wireless transmit/receive unit (WTRU), wherein the configuration information indicates that the WTRU is to periodically receive channel scheduling information;

the transmitter further configured to transmit channel scheduling information over a downlink (DL) signaling channel to the WTRU in time periods that the WTRU is to periodically receive the channel scheduling information; and

a receiver configured to receive a channel allocation request from the WTRU;

the transmitter further configured to transmit channel allocation information over the DL signaling channel in response to the received channel allocation request.

25. The wireless communication device of claim 24, wherein the wireless communication device is a base station, a Node-B, or an Access Point (AP).