CLAIMS

What is claimed is:

1. A method for utilizing channel control information associated with enhanced uplink (EU) transmission, implemented by a wireless transmit/receive unit (WTRU), the method comprising:

receiving information via radio resource control (RRC) signaling;

receiving downlink (DL) control information for at least EU transmission in at least one time slot, wherein the DL control information is at least ~~one of~~ a first type or a second type, and wherein the DL control infoormation of the first type and the DL control information of the second type are received via a same channel, and wherein the DL control information is masked with a forty bit WTRU specific code sequence;

determining whether the DL control information is intended for the WTRU based at least upon the ~~a first~~ forty bit WTRU specific code sequence ~~or a second forty bit specific code sequence~~ received in the at least one time slot and the information received via RRC signaling;

determining that ~~whether~~ the DL control information is the first type ~~by identifying the first forty bit specific code sequence in the at least one time slot~~ or the second type ~~by identifying the second forty bit specific code sequence in the at least one time slot~~ based upon the forty bit WTRU specific code sequence and the information received via RRC signaling; and

utilizing the DL control information of the first type or the second type for at least EU transmission on a condition that the DL control information is intended for the WTRU.

2. The method of claim 1 wherein the same channel is a channel that uses a same channelization code.

3. The method of claim 1 wherein the same channel is a code channel.

4. The method of claim 1 wherein the DL control information includes hybrid automatic repeat request (H-ARQ) information.

5. The method of claim 1 wherein the DL control information includes EU radio resource assignment information.

6. The method of claim 1 wherein the DL control information is received from a Node-B.

7. The method of claim 1 wherein the information received via RRC signaling is from a radio network controller (RNC).

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

circuitry configured to receive information via radio resource control (RRC) signaling;

circuitry configured to receive downlink (DL) control information for at least enhanced uplink (EU) transmission in at least one time slot, wherein the DL control information is at least ~~one of~~ a

first type or a second type, and wherein the DL control information of the first type and the DL control information of the second type are received via a same channel, and wherein the DL control information is masked with a forty bit WTRU specific code sequence;

circuitry configured to determine whether the DL control information is intended for the WTRU based at least upon the ~~a first~~ forty bit WTRU specific code sequence ~~or a second forty bit specific code sequence~~ received in the at least one time slot and the information received via RRC signaling;

circuitry configured to determine that ~~whether~~ the DL control information is the first type ~~by identifying the first forty bit specific code sequence in the at least one time slot~~ or the second type ~~by identifying the second forty bit specific code sequence in the at least one time slot~~ based upon the forty bit WTRU specific code sequence and the information received via RRC signaling; and

circuitry configured to utilize the DL control information of the first type or the second type for at least EU transmission on a condition that the DL control information is intended for the WTRU.

9. The WTRU of claim 8 wherein the same channel is a channel that uses a same channelization code.

10. The WTRU of claim 8 wherein the same channel is a code channel.

11. The WTRU of claim 8 wherein the DL control information includes hybrid automatic repeat request (H-ARQ) information.