

CLAIMS

What is Claimed:

1. A method, implemented in a wireless transmit/receive unit (WTRU), the method comprising:
 - receiving a time domain resource allocation (TDRA) list configuration including a plurality of entries, each of the plurality of entries comprising information indicating a resource allocation that includes a slot offset value;
 - receiving layer 1 (L1) signaling that indicates a minimum slot offset value;
 - decoding a first downlink control information (DCI) received in a physical downlink control channel (PDCCH) transmission in a slot;
 - obtaining, from the decoded first DCI, an index identifying one of the plurality entries in the TDRA list;
 - retrieving, from the TDRA list, a particular slot offset value identified by the index;
 - comparing the particular slot offset value with the minimum slot offset value; and
 - on a condition that the particular slot offset value is less than the minimum slot offset value, determining that the entry identified by the index is invalid.
2. The method of claim 1, further comprising:
 - not receiving a PDSCH transmission in the slot that is offset from the slot on which the first DCI was decoded by the particular slot offset value on a condition that the entry identified by the index is determined invalid.
3. The method of claim 1, further comprising:
 - determining that a minimum aperiodic channel state information reference signal (CSI-RS) offset for aperiodic CSI-RS reporting is equal to the minimum slot offset value received in the L1 signaling for a bandwidth part (BWP).
4. The method of claim 3, further comprising:
 - decoding a second DCI and obtaining a CSI-RS reporting trigger from the decoded second DCI, the CSI-RS reporting trigger identifying a resource set that is configured with a particular trigger offset for the aperiodic CSI-RS reporting;
 - comparing the particular trigger offset to the minimum aperiodic CSI-RS offset;

on a condition that the particular trigger offset is less than the minimum aperiodic CSI-RS offset, not reporting CSI associated with the identified resource set in response to the CSI-RS reporting trigger.

5. The method of claim 4, wherein the WTRU is configured with a CSI-RS report trigger state list that includes one or more entries, each of the one or more entries comprising one or more resource sets and each of the one or more resource sets includes identification of a set of time-frequency resources and a trigger offset for the resource set.

6. The method of claim 5, wherein the L1 signaling indicates a power mode that the WTRU is to operate in that corresponds to the minimum slot offset value.

7. The method of claim 6, wherein the power mode is a power savings mode.

8. The method of claim 1, further comprising:
receiving L1 signaling that indicates a normal power mode;
activating the normal power mode; and
determining that all entries in the TDRA list and the CSI report trigger state list are valid on a condition that the normal power mode is activated.

9. A wireless transmit/receive unit (WTRU) comprising:
a transceiver; and
a processor,
wherein the transceiver and the processor are configured to receive a time domain resource allocation (TDRA) list configuration including a plurality of entries, each of the plurality of entries comprising information indicating a resource allocation that includes a slot offset value,
wherein the transceiver and the processor are further configured to receive layer 1 (L1) signaling that indicates a minimum slot offset value,
wherein the transceiver and the processor are further configured to decode a first downlink control information (DCI) received in a physical downlink control channel (PDCCH) transmission in a slot,
wherein the transceiver and the processor are further configured to obtain, from the decoded first DCI, an index identifying one of the plurality entries in the TDRA list,

wherein the transceiver and the processor are further configured to retrieve, from the TDRA list, a particular slot offset value identified by the index,

wherein the transceiver and the processor are further configured to compare the particular slot offset value with the minimum slot offset value, and

wherein the transceiver and the processor are further configured to determine that the entry identified by the index is invalid on a condition that the particular slot offset value is less than the minimum slot offset value.

10. The WTRU of claim 9, wherein the transceiver and the processor are further configured to not receive a PDSCH transmission in the slot that is offset from the slot on which the first DCI was decoded by the particular slot offset value on a condition that the entry identified by the index is determined invalid.

11. The WTRU of claim 9, wherein the transceiver and the processor are further configured to determine that a minimum aperiodic channel state information reference signal (CSI-RS) offset for aperiodic CSI-RS reporting is equal to the minimum slot offset value received in the L1 signaling for a bandwidth part (BWP).

12. The WTRU of claim 11, wherein:

the transceiver and the processor are further configured to decode a second DCI and obtain a CSI-RS reporting trigger from the decoded second DCI, the CSI reporting trigger identifying a resource set that is configured with a particular trigger offset for the aperiodic CSI-RS reporting,

the transceiver and the processor are further configured to compare the particular trigger offset to the minimum aperiodic CSI-RS offset; and

the transceiver and the processor are further configured to not report CSI associated with the identified resource set in response to the CSI-RS reporting trigger on a condition that the particular trigger offset is less than the minimum aperiodic CSI-RS offset.

13. The WTRU of claim 12, wherein the WTRU is configured with a CSI-RS report trigger state list that includes one or more entries, each of the one or more entries comprising one or more resource sets and each of the one or more resource sets includes identification of a set of time-frequency resources and a trigger offset for the resource set.

14. The WTRU of claim 13, wherein the L1 signaling indicates a power mode that the WTRU is to operate in that corresponds to the minimum slot offset value.

15. The WTRU of claim 14, wherein the power mode is a power savings mode.

16. The WTRU of claim 9, wherein:
the transceiver and the processor are further configured to receive L1 signaling that indicates a normal power mode,
the transceiver and the processor are further configured to activate the normal power mode, and
the transceiver and the processor are further configured to determine that all entries in the TDRA list and the CSI report trigger state list are valid on a condition that the normal power mode is activated.

17. The method of claim 1, further comprising receiving a physical downlink shared channel (PDSCH) transmission in a slot that is offset from the slot on which the first DCI was decoded by the particular slot offset value on a condition that the particular slot offset value is greater than or equal to the minimum slot offset value.

18. The method of claim 4, further comprising reporting CSI associated with the identified resource set in response to the CSI-RS reporting trigger on a condition that the particular trigger offset is greater than or equal to the minimum aperiodic CSI-RS offset.

19. The WTRU of claim 9, wherein the transceiver and the processor are further configured to receive a physical downlink shared channel (PDSCH) transmission in a slot that is offset from the slot on which the first DCI was decoded by the particular slot offset value on a condition that the particular slot offset value is greater than or equal to the minimum slot offset value.

20. The WTRU of claim 12, wherein the transceiver and the processor are further configured to report CSI associated with the identified resource set in response to the CSI-RS reporting trigger on a condition that the particular trigger offset is greater than or equal to the minimum aperiodic CSI-RS offset.