**Issue 3&4**

**Proposal:**

* A DCI format 2\_4 is only applicable to an uplink grant scheduling PUSCH/SRS if the ending symbol of the PDCCH carrying the UL grant is earlier than the first symbol of the PDCCH carrying DCI format 2\_4. If the UE does not cancel a transmission in resources indicated by DCI format 2\_4, the UE can receive an UL grant scheduling a transmission in any resources and transmit accordingly, if the ending symbol the PDCCH carrying UL grant is no earlier than the first symbol of the PDCCH carrying DCI format 2\_4.
* UE does not expect to receive a PDCCH carrying UL grant with its ending symbol no earlier than the first symbol of a PDCCH carrying DCI format 2\_4 scheduling a transmission in resource colliding with the ones indicated by DCI formant 2\_4 or in the cancelled symbols that do not overlap with the resource indicated by the DCI format 2\_4, if the UE has to cancel another transmission in resource indicated by the DCI format 2\_4
  + FFS under what condition (if there is such a condition), that UE can be scheduled by an UL grant to transmit in any resource if the UE has to cancel a transmission in the resources indicated by the DCI format 2\_4, and if the UL grant is received after the DCI format 2\_4

**Issue 6: BD limitations for UL CI monitoring**

**Proposal 1:**

* Up to X BDs can be configured per UL CI monitoring occasion
* Option 1: X=1
* Option 2: X=2
* Option 3: X = 1 or 2 reported as UE capability
* Suggest to agree on X=1

**Issue 7: Misaligned RUR start due to different UL SCS used by UEs monitoring the same UL CI.**

* **Suggest to agree on Option 3**

**Option 1:**

•       Update the value range of  RRC parameterdelta\_offset\_d  as {0,1,2,3,4,5,6,7,8}

•       Update the RRC parameter list allowing delta\_offset\_d to be configured per UL BWP

•       adopt the following text proposal for 38.213 section 11.2A

**TP for 38.213 Section 11.2A:**

|  |
| --- |
| An indication by a DCI format 2\_4 for a serving cell is applicable to a PUSCH transmission or a SRS transmission on the serving cell. For the serving cell, the UE determines the first symbol of the TCI symbols to be the first symbol that is afterTproc,2+d from the end of a PDCCH reception where the UE detects the DCI format 2\_4, whered is provided byXXX using the SCS configuration of the PUSCH transmission or SRS transmission on the serving cell.Tproc,2 corresponds to the PUSCH processing capability 2[6, TS 38.214] assumingd2,1=0 withμ beingthe smallest SCS configuration between the SCS configurations of the PDCCH and of a PUSCH transmission or of anSRS transmission on the serving cell. The UE does not expect to cancel the PUSCH transmission or the SRS transmission before a corresponding symbol that isTproc,2 after a last symbol of a CORESET where the UE detects the DCI format 2\_4. |

**Option 2:**

* Introduce an RRC parameter to be used as a reference SCS to determineTproc,2 and offset d for ULCI.
  + The parameter is of type subcarrierspacing.
  + The network configures the reference SCS not larger than any SCS of the configured UL and DL BWPs for the serving cell.
  + Adopt the following text proposal

**TP for 38.213 Section 11.2A:**

|  |
| --- |
| An indication by a DCI format 2\_4 for a serving cell is applicable to a PUSCH transmission or a SRS transmission on the serving cell. For the serving cell, the UE determines the first symbol of the TCI symbols to be the first symbol that is afterTproc,2+d from the end of a PDCCH reception where the UE detects the DCI format 2\_4, whered is provided byXXX assuming SCS configured by high layer parameterreferenceSubcarrierSpacing-ULCI. Tproc,2 corresponds to the PUSCH processing capability 2[6, TS 38.214] assumingd2,1=0 withμ beingthe SCS configured by high layer parameterreferenceSubcarrierSpacing-ULCI~~the smallest SCS configuration between the SCS configurations of the PDCCH and of a PUSCH transmission or of anSRStransmission on the serving cell.~~ The UE does not expect to cancel the PUSCH transmission or the SRS transmission before a corresponding symbol that is Tproc,2 after a last symbol of a CORESET where the UE detects the DCI format 2\_4. |

**Option 3**

* + UE uses the smallest SCS configuration between the SCS configuration of the PDCCH for DCI format 2\_4 detection and the SCS configurations in scs-SpecificCarrierListof UL carrier to determine the RUR starting symbol.
  + UE uses the smallest SCS configurations in scs-SpecificCarrierList of UL carrier to determine offset d.

**TP for option 3 in 38.213 section 11.2A**

|  |
| --- |
| **11.2A  Cancellation indication**  <---------------------------Other   parts are omitted ------------------------------->  An indication by a DCI format 2\_4 for a serving cell is applicable to a PUSCH transmission or a SRS transmission on the serving cell. For the serving cell, the UE determines the first symbol of the cid:image002.png@01D61EF4.7052B3D0 symbols to be the first symbol that is after cid:image003.png@01D61EF4.7052B3D0 from the end of a PDCCH reception where the UE detects the DCI format 2\_4, where cid:image004.png@01D61EF4.7052B3D0 is provided by XXX  with the smallest SCS configuration~~between the SCS configurations of the PDCCH and the SCS configurations~~ provided in scs-SpecificCarrierList of UL carrier. cid:image005.png@01D61EF4.7052B3D0 corresponds to the PUSCH processing capability 2 [6, TS 38.214] assuming cid:image006.png@01D61EF4.7052B3D0 with cid:image007.png@01D61EF4.7052B3D0 being the smallest SCS configuration between the SCS configurations of the PDCCH and the SCS configurations provided in scs-SpecificCarrierList of UL carrier~~of a PUSCH transmission or of an SRS transmission on the serving cell~~. The UE does not expect to cancel the PUSCH transmission or the SRS transmission before a corresponding symbol that is cid:image005.png@01D61EF4.7052B3D0 after a last symbol of a CORESET where the UE detects the DCI format 2\_4.  <---------------------------Other   parts are omitted -------------------------------> |