**3GPP TSG-RAN Meeting #95-e *RP-220949***

**Electronic Meeting, March 17th – 23rd, 2022** (revision of R1-2202963)

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **38.214** | **CR** | **0257** | **rev** | **1** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network | **X** | Core Network |  |

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| ***Title:*** | Sidelink enhancements | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** | OPPO, Nokia | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_SL\_enh-Core | | | | |  | ***Date:*** | | | 2022-03-22 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Corrections on NR Sidelink enhancements | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | In clause 8.1, defined the content for SCI format 2-C  In clause 8.1.4A, introduced a new RRC parameters and related procedure. When UE is triggered to perform re-evaluation and pre-emption checking for aperiodic transmission (Prsvp\_TX=0) in slot *n*, defined related procedures. When UE performs at least contiguous partial sensing in a mode 2 Tx pool for a resource (re)selection procedure and re-evaluation/pre-emption checking triggered by aperiodic transmission (Prsvp\_TX=0) in slot *n.*  In clause 8.1.4D (new), for determining preferred resource set in Scheme 1.  In clause 8.1.5A, procedures related to the indication of resource set in Scheme 1.  Rev 1: Addition of Solution 5 (up to UE implementation) following endorsed proposal 3 of RP-220890:  If there is no candidate single-slot resource remained within the indicated SL DRX active time in the set SA after completing the iterations from step 4) to 7) to fulfil X·M\_”total”, the UE based on its implementation selects and includes at least one candidate single-slot resources within the indicated SL DRX active time in the set SA. | | | | | | | | |
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| ***Consequences if not approved:*** | | Incomplete support of NR Sidelink enhancements | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 8.1, 8.1.4, 8.1.4A, 8.1.4C, 8.1.5, 8.1.5A | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

<omitted text>

## 8.1 UE procedure for transmitting the physical sidelink shared channel

Each PSSCH transmission is associated with an PSCCH transmission.

That PSCCH transmission carries the 1st stage of the SCI associated with the PSSCH transmission; the 2nd stage of the associated SCI is carried within the resource of the PSSCH.

If the UE transmits SCI format 1-A on PSCCH according to a PSCCH resource configuration in slot *n* and PSCCH resource *m*, then for the associated PSSCH transmission in the same slot

- one transport block is transmitted with up to two layers;

- The number of layers (ʋ) is determined according to the '*Number of DMRS port'* field in the SCI;

- The set of consecutive symbols within the slot for transmission of the PSSCH is determined according to clause 8.1.2.1;

- The set of contiguous resource blocks for transmission of the PSSCH is determined according to clause 8.1.2.2;

Transform precoding is not supported for PSSCH transmission.

Only wideband precoding is supported for PSSCH transmission.

The DM-RS antenna ports cid:image011.png@01D5F222.20AEBCB0 in Clause 8.4.1.1.2 of [4, TS38.211] are determined according to the ordering of DM-RS port(s) given by Tables 8.3.1.1-3 in Clause 8.3.1.1 of [5, TS 38.212].

The UE shall set the contents of the SCI format 2-A as follows:

- the UE shall set value of the *'HARQ process number'* field as indicated by higher layers.

- the UE shall set value of the '*NDI*' field as indicated by higher layers.

- the UE shall set value of the '*Redundancy version*' field as indicated by higher layers.

- the UE shall set value of the '*Source ID*' field as indicated by higher layers.

- the UE shall set value of the '*Destination ID*' field as indicated by higher layers.

- the UE shall set value of the '*HARQ feedback enabled/disabled indicator*' field as indicated by higher layers.

- the UE shall set value of the '*Cast type indicator*' field as indicated by higher layers.

- the UE shall set value of the '*CSI request*' field as indicated by higher layers.

The UE shall set the contents of the SCI formats 2-B as follows:

- the UE shall set value of the '*HARQ process number*' field as indicated by higher layers.

- the UE shall set value of the '*NDI*' field as indicated by higher layers.

- the UE shall set value of the '*Redundancy version*' field as indicated by higher layers.

- the UE shall set value of the '*Source ID*' field as indicated by higher layers.

- the UE shall set value of the '*Destination ID*' field as indicated by higher layers.

- the UE shall set value of the '*HARQ feedback enabled/disabled indicator*' field as indicated by higher layers.

- the UE shall set value of the '*Zone ID*' field as indicated by higher layers.

- the UE shall set the '*Communication range requirement*' field as indicated by higher layers.

The UE shall set the contents of the SCI format 2-C as follows:

- the UE shall set value of the *'HARQ process number'* field as indicated by higher layers.

- the UE shall set value of the '*NDI*' field as indicated by higher layers.

- the UE shall set value of the '*Redundancy version*' field as indicated by higher layers.

- the UE shall set value of the '*Source ID*' field as indicated by higher layers.

- the UE shall set value of the '*Destination ID*' field as indicated by higher layers.

- the UE shall set value of the '*HARQ feedback enabled/disabled indicator*' field as indicated by higher layers.

- the UE shall set value of the '*CSI request*' field as indicated by higher layers.

- the UE shall set value of [request/coordination information flag] field as indicated by higher layers.

- if [Providing/Requesting indicator] indicates SCI format 2-C is used to convey an explicit request for inter-UE coordination information:

- the UE shall set value of the ['*Priority*'] field as indicated by higher layers.

- the UE shall set value of the ['*Number of subchannels*'] field as indicated by higher layers.

- the UE shall set value of the ['*Resource reservation period*'] field as indicated by higher layers.

- the UE shall set value of the ['*Resource selection window location*'] field as indicated by higher layers.

- the UE shall set value of the ['*Resource set type*'] field as indicated by higher layers if higher layer parameter *determineResourceSetTypeScheme1* is configured to 'UE-B’s request'; otherwise this field is omitted.

- if [Providing/Requesting indicator] indicates SCI format 2-C is used to convey inter-UE coordination information:

- the UE shall set value of the ['*Resource set type*'] field as indicated by higher layers.

- the UE shall set value of the ['*Resource combination(s)* '] field (clause 8.1.5A) as indicated by higher layers.

- the UE shall set value of the [*'Lowest subchannel indices'*] as indicated by higher layers

- the UE shall set value of the ['*First resource location*'] as indicated by higher layers

- the UE shall set value of the ['*Reference slot location*'] as indicated by higher layers

<omitted text>

### 8.1.4 UE procedure for determining the subset of resources to be reported to higher layers in PSSCH resource selection in sidelink resource allocation mode 2

In resource allocation mode 2, the higher layer can request the UE to determine a subset of resources from which the higher layer will select resources for PSSCH/PSCCH transmission. To trigger this procedure, in slot *n,* the higher layer provides the following parameters for this PSSCH/PSCCH transmission:

- the resource pool from which the resources are to be reported;

- L1 priority, ;

- the remaining packet delay budget;

- the number of sub-channels to be used for the PSSCH/PSCCH transmission in a slot, ;

- optionally, the resource reservation interval, , in units of msec.

- if the higher layer requests the UE to determine a subset of resources from which the higher layer will select resources for PSSCH/PSCCH transmission as part of re-evaluation or pre-emption procedure, the higher layer provides a set of resources which may be subject to re-evaluation and a set of resources which may be subject to pre-emption.

- it is up to UE implementation to determine the subset of resources as requested by higher layers before or after the slot - , where is the slot with the smallest slot index among and , and is equal to , whereis defined in slots in Table 8.1.4-2 whereis the SCS configuration of the SL BWP.

- Optionally, the indication of resource selection mechanism(s), as *allowedResourceSelectionConfig*, which may comprise of full sensing only, partial sensing only, random resource selection only, or any combination(s) thereof.

The following higher layer parameters affect this procedure:

*- sl-SelectionWindowList*:internal parameter is set to the corresponding value from higher layer parameter *sl-SelectionWindowList* for the given value of .

*- sl-Thres-RSRP-List*: this higher layer parameter provides an RSRP threshold for each combination , where is the value of the priority field in a received SCI format 1-A and is the priority of the transmission of the UE selecting resources; for a given invocation of this procedure, .

*- sl-RS-ForSensing* selects if the UE uses the PSSCH-RSRP or PSCCH-RSRP measurement, as defined in clause 8.4.2.1.

*- sl-ResourceReservePeriodList*

*- sl-SensingWindow*: internal parameter is defined as the number of slots corresponding to *sl-SensingWindow* msec

*- sl-TxPercentageList*: internal parameter for a given is defined as *sl-TxPercentageList ()* converted from percentage to ratio

- *sl-PreemptionEnable*: if *sl-PreemptionEnable* is provided, and if it is not equal to 'enabled', internal parameter is set to the higher layer provided parameter *sl-PreemptionEnable.*

- Optionally, minimum number of *Y* slots as *Y*\_min (*minNumCandidateSlotsPeriodic*), which indicates the minimum number of *Y* slots that are included in the resources corresponding to periodic-based partial sensing.

- Optionally, minimum number of slots as (*minNumCandidaateSlotsAperiodic*), which indicates the minimum number of slots that are included in the resources corresponding to contiguous partial sensing.

- Optionally, sensing occasion as *periodicSensingOccasionReservePeriodList,* which indicates the subset of periodicity values from *sl-ResourceReservePeriodList* used to determine periodic sensing occasions in periodic-based partial sensing. If not configured, all periodicity values from *sl-ResourceReservePeriodList* are used to determine periodic sensing occasions in periodic-based partial sensing.

- Optionally, additional sensing occasions as *additionalPeriodicSensingOccasion*, which indicates that UE additionally monitors periodic sensing occasions that correspond to a set of values. The possible values of the set at least includes the most recent sensing occasion before the first slot of the candidate slots for a given reservation periodicity and the last periodic sensing occasion prior to the most recent one for the given reservation periodicity. If not configured, the UE monitors the most recent sensing occasion before the first slot of the candidate slots for the given periodicity used to determine periodic sensing occasions in periodic-based partial sensing.

- Optionally, indication of the size in logical slots of contiguous partial sensing window as *contiguousSensingWindowPeriodic*.

Optionally, indication of the size in logical slots of contiguous partial sensing window as *contiguousSensingWindowAperiodic*

- Optionally, indication of whether UE is required to perform SL reception of PSCCH and RSRP measurement for partial sensing on slots in SL DRX inactive time as *partialSensingInactiveTime.*

The resource reservation interval, , if provided, is converted from units of msec to units of logical slots, resulting in according to clause 8.1.7.

When the resource pool is (pre-)configured with *allowedResourceSelectionConfig* including full sensing, and full sensing is (pre-)configured in the UE by higher layers, the UE performs full sensing.

When periodic reservation for another TB (sl-MultiReserveResource) is enabled for the resource pool, the resource pool is (pre-)configured with *allowedResourceSelectionConfig* including partial sensing, and partial sensing is (pre-) configured in the UE by higher layer, the UE performs periodic-based partial sensing.

When a UE is triggered by higher layer to report resources for resource (re-)selection in a mode 2 Tx pool, the resource pool is (pre-)configured with *allowedResourceSelectionConfig* including partial sensing, and partial sensing is configured by higher layer, the UE may perform contiguous partial sensing.

Notation:

denotes the set of slots which belongs to the sidelink resource pool and is defined in Clause 8.

The following steps are used:

1) A candidate single-slot resource for transmission is defined as a set of contiguous sub-channels with sub-channel *x+j* in slot where . The UE shall assume that any set of contiguous sub-channels included in the corresponding resource pool within the time interval correspond to one candidate single-slot resource for UE performing full sensing, in a set of *Y* candidate slots within the time interval for UE performing periodic-based partial sensing correspond to one candidate single-slot resource, or in a set of *Y'* candidate slots within the time interval for UE performing contiguous partial sensing if *P*rsvp\_TX*=0*, correspond to one candidate single-slot resource, where

- selection of is up to UE implementation under , where is defined in slots in Table 8.1.4-2 where is the SCS configuration of the SL BWP;

- if is shorter than the remaining packet delay budget (in slots) then is up to UE implementation subject to remaining packet delay budget (in slots); otherwise is set to the remaining packet delay budget (in slots).

- is selected by UE where .

- is selected by UE where . When the UE performs contiguous partial sensing and if , if the number of candidate single-slot resources is smaller than , it is up to UE implementation to include other candidate slots.

The total number of candidate single-slot resources is denoted by .

2) The sensing window is defined by the range of slots [), when the UE performs full sensing, where is defined above and is defined in slots in Table 8.1.4-1 where is the SCS configuration of the SL BWP. The UE shall monitor slots which belongs to a sidelink resource pool within the sensing window except for those in which its own transmissions occur. The UE shall perform the behaviour in the following steps based on PSCCH decoded and RSRP measured in these slots.

When the UE performs periodic-based partial sensing, the UE shall monitor slots at , where is a slot of the selected candidate slots. The UE shall perform the behaviour in the following steps based on PSCCH decoded and RSRP measured in these slots.

The value of corresponds to *periodicSensingOccasionReservePeriodList* if configured, otherwise, the values correspond to all periodicity from *sl-ResourceReservePeriodList.*

The UE monitors *k* sensing occasions determined by *additionalPeriodicSensingOccasion*, as previously described, and not earlier than . For a given periodicity , the values of *k* correspond to the most recent sensing occasion earlier than if *additionalPeriodicSensingOccasion* is not (pre-)configured, and additionally includes the value of *k* corresponding to the last periodic sensing occasion prior to the most recent one if *additionalPeriodicSensingOccasion* is (pre-)configured. is the first slot of the selected *Y* candidate slots of PBPS.

When the UE performs periodic-based partial sensing and contiguous partial sensing with periodic reservation for another TB (*sl-MultiReserveResource*) enabled, the sensing window is defined by the range of slots . *n*+*T*A is *M* consecutive logical slots earlier than slot , and *n*+*T*B is slots earlier than , where is the first slot of the selected *Y* candidate slots of PBPS, and , are in units of physical time/slots. If the value of *M* is (pre-)configured with the *contiguousSensingWindowPeriodic*. If *contiguousSensingWindowPeriodic* is not (pre-)configured, *M* equals to 31. When the minimum *M* slots for CPS cannot be guaranteed and when , it is up to UE implementation to either continue with step 3) or perform random selection.

When the UE performs contiguous partial sensing with periodic reservation for another TB (*sl-MultiReserveResource*) disabled and if , the sensing window is defined by the range of slots . and are both selected such that the UE has sensing results starting at *M* consecutive logical slots before and ending at slots earlier than . The value of *M* is (pre-)configured with the *contiguousSensingWindowAperiodic*. If *contiguousSensingWindowAperiodic* is not (pre-)configured, *M* equals to 31. When the minimum *M* slots for CPS cannot be guaranteed and when , it is up to UE implementation to either continue with step 3) or perform random selection.

Whether the UE is required to performs SL reception of PSCCH and RSRP measurement for partial sensing on slots in SL DRX inactive time is enabled/disabled by higher layer parameter *partialSensingInactiveTime.* When it is enabled, if UE performs periodic-based partial sensing on the slots in SL DRX inactive time for a given , UE monitors only the default periodic sensing occasions (most recent sensing occasion) from the slots; if UE performs contiguous partial sensing on the slots in SL DRX inactive time, UE monitors a minimum of *M* slots from the slots.

3) The internal parameter is set to the corresponding value of RSRP threshold indicated by the *i*-th field in *sl-Thres-RSRP-List*, where .

4) The set is initialized to the set of all the candidate single-slot resources.

5) The UE shall exclude any candidate single-slot resource from the set if it meets all the following conditions:

- the UE has not monitored slot in Step 2.

- for any periodicity value allowed by the higher layer parameter *sl-ResourceReservePeriodList* and a hypothetical SCI format 1-A received in slot with '*Resource reservation period*' field set to that periodicity value and indicating all subchannels of the resource pool in this slot, condition c in step 6 would be met.

5a) If the number of candidate single-slot resources remaining in the set is smaller than , the set is initialized to the set of all the candidate single-slot resources as in step 4.

6) The UE shall exclude any candidate single-slot resource from the set if it meets all the following conditions:

a) the UE receives an SCI format 1-A in slot , and '*Resource reservation period'* field, if present, and '*Priority*' field in the received SCI format 1-A indicate the values and , respectively according to Clause 16.4 in [6, TS 38.213];

b) the RSRP measurement performed, according to clause 8.4.2.1 for the received SCI format 1-A, is higher than

c) the SCI format received in slot or the same SCI format which, if and only if the '*Resource reservation period*' field is present in the received SCI format 1-A, is assumed to be received in slot(s) determines according to clause 8.1.5 the set of resource blocks and slots which overlaps with for *q*=1, 2, …, *Q* and *j=*0, 1, …, . Here, is converted to units of logical slots according to clause 8.1.7, if and , where if the UE is configured with full sensing by its higher layer, if slot *n* belongs to the set , otherwise slot is the first slot after slot *n* belonging to the set ; If UE is configured with partial sensing by its higher layer, if slot belongs to the set , otherwise, slot is the first slot after slot belonging to the set . otherwise . If the UE is configured with full sensing by its higher layer, is set to selection window size *T2* converted to units of msec. If UE is configured with partial sensing by its higher layer, shall be converted to milliseconds, where slot is the last slot of the or candidate slots. The slot is the first slot of the selected/remaining set of or candidate slots.

6a) This step is executed only if the procedure in clause 8.1.4A is triggered.

6b) This step is executed only if the procedure in clause 8.1.4C is triggered.

~~6c) When UE is configured with partial sensing by its higher layer, if slot belongs to the set , otherwise, slot is the first slot after slot belonging to the set . Also, the value of shall be converted to milliseconds, where slot is the last slot of the or candidate slots. The slot is the first slot of the selected/remaining set of or candidate slots.~~

7) If the number of candidate single-slot resources remaining in the set is smaller than , then is increased by 3 dB for each priority value and the procedure continues with step 4.

7a) If sidelink DRX active time of RX UE is provided by the higher layer and there is no candidate single-slot resource remained within the sidelink DRX active time in the set , the UE based on its implementation additionally selects and includes at least one candidate single-slot resources within the sidelink DRX active time in the set .

The UE shall report set to higher layers.

If a resource from the set is not a member of , then the UE shall report re-evaluation of the resource to higher layers.

If a resource from the set meets the conditions below then the UE shall report pre-emption of the resource to higher layers.

- is not a member of , and

- meets the conditions for exclusion in step 6, with set to the final threshold after executing steps 1)-7), i.e. including all necessary increments for reaching , and

- the associated priority satisfies one of the following conditions:

- *sl-PreemptionEnable* is provided and is equal to 'enabled' and

- *sl-PreemptionEnable* is provided and is not equal to 'enabled', and and

Table 8.1.4-1: depending on sub-carrier spacing

|  |  |
| --- | --- |
|  | **[slots]** |
| 0 | 1 |
| 1 | 1 |
| 2 | 2 |
| 3 | 4 |

Table 8.1.4-2: depending on sub-carrier spacing

|  |  |
| --- | --- |
|  | **[slots]** |
| 0 | 3 |
| 1 | 5 |
| 2 | 9 |
| 3 | 17 |

When the UE performs periodic-based partial sensing and contiguous partial sensing, and when the UE is triggered to perform re-evaluation and pre-emption checking, and if *P*rsvp\_TX*≠0*,

- During the *q*th reservation period (*q*=0,1,2,…, *Cresel*-1), candidate resource set (*SA*) is initialized to the remaining *Y* candidate slots starting from slot and ending at the last slot of the *Y* candidate slots, where the slot indices of the remaining *Y* candidate slots are equal to [*q* x *Prsvp\_Tx* + ], where is a slot index of *Y* candidate slots used in the initial resource (re)selection.

- is the first candidate slot after slot *n+T3*.

- The UE performs PBPS for the remaining *Y* candidate slots according to , where is a slot belonging to the remaining *Y* candidate slots, and *k* and *Preserve* are the same as resource (re)selection, where the values of *k* correspond to the most recent sensing occasion earlier than if *additionalPeriodicSensingOccasion* is not (pre-)configured, and additionally includes the value of *k* corresponding to the last periodic sensing occasion prior to the most recent one if *additionalPeriodicSensingOccasion* is (pre-)configured.

- The UE performs CPS starting from *M* logical slots earlier than to slots earlier than .

- By default, *M* is 31 unless (pre-)configured with another value by *contiguousSensingWindowPeriodic*.

When the UE is triggered to perform re-evaluation and pre-emption checking, and if *P*rsvp\_TX*=0*,

- Candidate resource set (*SA*) is initialized to the remaining *Y’* candidate slots starting from slot and ending at the last slot of the *Y’* candidate slots, where is the first candidate slot after slot *n+T3*.

- It is up to UE implementation that UE may perform PBPS for periodic sensing occasions after the resource (re)selection when higher layer parameter *sl-MultiReserveResource* is enabled

- UE performs CPS starting from at least *M* consecutive logical slots earlier than to slots earlier than

- For minimum size M of the CPS monitoring window *[n+TA, n+TB]*, by default, *M* is 31 unless (pre-)configured with another value, by  *contiguousSensingWindowAperiodic*.

When the minimum *M* slots for CPS cannot be guaranteed, UE senses in all available slots starting from the resource (re)selection trigger slot of the same TB to  slots earlier than . The UE re-evaluation and pre-emption checking is based on all available sensing results after n-T0.

<omitted text>

### 8.1.4A UE procedure for determining a set of preferred or non-preferred resources for another UE's transmission

When this procedure is triggered, the following parameters are provided by the higher layer:

- the resource pool from which the preferred or non-preferred resources are to be determined;

- the resource selection window within which the preferred or non-preferred resources are to be determined;

- the resource set type (either preferred or non-preferred resource set);

- if the resource set type indicates preferred set, then the higher layer additionally provides the following parameters:

- L1 priority, ;

- the number of sub-channels to be used for the PSSCH/PSCCH transmission in a slot, ;

- the resource reservation period, , if present.

The value of is determined by the UE according to clause 8.1.5.

When this procedure is triggered by another UE’s explicit request, the fields in the request are interpreted as follows:

- The field ‘Resource selection window location’ is the concatenation of the starting time location and the ending time location of the resource selection window. The starting and ending time locations of the resource selection window are each encoded in the same way as the reference slot as described in clause 8.1.5A.

- The field ‘Resource reservation period’ is encoded in the same way as the field of the same name in SCI format 1-A.

When determining a preferred resource set, the UE applies the procedure described in clause 8.1.4 with the above parameters and the following modifications:

- Step 6a) The UE excludes candidate single-slot resource(s) belonging to slot(s) where the UE does not expect to perform SL reception of a TB due to half-duplex operation, if all the following conditions are met:

- the UE is a destination UE of the TB for whose transmission the preferred resource set is being determined;

- the higher layer parameter *condition1A2Scheme1Disabled* is not set to 'Disabled'.

When determining a non-preferred resource set, the UE considers any resource(s) within the resource selection window, if indicated by a received explicit request, and satisfying at least one of the following conditions as non-preferred resource(s):

- resource(s) indicated by a received [SCI format 1-A], satisfying at least one of the following criteria:

- the RSRP measurement performed, according to clause 8.4.2.1, for the received [SCI format 1-A], is higher than where is the value of the priority field in the received [SCI format 1-A]. The internal parameter is set to the corresponding value of RSRP threshold indicated by the *k*-th field in *thresholdRSRPCondition1B1Option1Scheme1*, where .

- the UE is a destination UE of a TB associated with the received [SCI format 1-A] and the RSRP measurement performed, according to clause 8.4.2.1 for the received [SCI format 1-A], is lower than where is the value of the priority field in the received [SCI format 1-A]. The internal parameter is set to the corresponding value of RSRP threshold indicated by the *k*-th field in *thresholdRSRPCondition1B1Option2Scheme1*, where .

- resources(s) in slot(s) in which the UE does not expect to perform SL reception due to half duplex operation, if the UE is a destination UE of a TB for whose transmission the non-preferred resource set is being determined.

<omitted text>

### 8.1.4C UE procedure for using a received non-preferred resource set

A UE configured with the higher layer parameter *interUECoordinationScheme1* uses a received non-preferred resource set as follows when performing resource (re-)selection:

- the UE excludes in Step 6b) of clause 8.1.4 resource(s) overlapping with the non-preferred resource set.

Note: If it is not possible to meet the requirement that the number of candidate single-slot resources remaining in the set be at least after excluding resource(s) overlapping with the received non-preferred resource set, it is up to UE implementation whether or not to take into account the received non-preferred resource set to meet such requirement.

### 8.1.5 UE procedure for determining slots and resource blocks for PSSCH transmission associated with an SCI format 1-A

The set of slots and resource blocks for PSSCH transmission is determined by the resource used for the PSCCH transmission containing the associated SCI format 1-A, and fields '*Frequency resource assignment*', '*Time resource assignment*' of the associated SCI format 1-A as described below.

<omitted text>

### 8.1.5A UE procedure for determining slots and resource blocks indicated by a preferred or non-preferred resource set

The set of slots and resource blocks indicated by a set of preferred or non-preferred resource(s) is determined as described below.

The set of preferred or non-preferred resources , is indicated by a reference slot and tuples , indicated by the ‘resource combination(s)’ field, where for each tuple is indicated by the 9 MSBs, followed by and (if present).

The reference slot is indicated by the ‘reference slot location’ field as a combination of DFN index and slot index [5, TS 38.212], with the 10 MSBs indicating the DFN index. and are interpreted according to clause 8.1.5, with the following modifications:

- the value of *sl-MaxNumPerReserve* is fixed to 3.

- "slot where SCI format 1-A was received" is replaced by slot indicated as the first resource location of a .

- the first resource location of each for is indicated by a slot offset in logical slots with respect to the reference slot ; the first resource location of is at slot offset 0 with respect to the reference slot.- "the received SCI format 1-A, except the resource in the slot where SCI format 1-A was received" is replaced by “each tuple”

- the starting sub-channel of the first resource of each tuple is separately indicated.

The starting sub-channel of the first resource of each tuple is indicated by the ‘[lowest subchannel index for the first resource location of each TRIV]’ field. The resource reservation period is encoded as in SCI format 1-A.

If the set is indicated by an SCI format 2-C, the number of tuples is .

A UE forms the union of the subsets indicated by each tuple to obtain the set .

[When a preferred resource set is indicated by an SCI format 2-C, if the transmission of the set was triggered by an explicit request, the value of the resource reservation interval is set to 0.]

<omitted text>