**3GPP TSG-RAN WG2 Meeting #109-bis electronic *R2-20xxxxx***

**20 – 30 April 2020**

**Agenda Item:**  **6.4.2.1**

**Source: Huawei (Rapporteur)**

**Title: Summary of offline discussion [AT109bis-e][701][V2X] RRC open issues and ASN.1 class2/3 issues**

**Document for:** **Discussion and Decision**

# Introduction

This document is a summary of the email discussion of [AT109bis-e][701][V2X] RRC open issues and ASN.1 class2/3 issues:

🖂 [AT109bis-e][701][V2X] RRC open issues and ASN.1 class2/3 issues (Huawei)

Scope: Discuss and conclude issues of “to be discussed” in the open issues and 38.331 ASN.1 class2/3 issues in R2-2003519 and R2-2002918

Expected outputs: Proposals and summary in R2-2004071

Deadline: 4/24 10:00 for companies’ feedback and 4/27 10:00 for rapporteur version (UTC)

A list of RRC open issue and ASN.1 class 2/3 issues is updated and maintained in R2-XXXXXX [1], where companies’ feedback are collected. This offline discussion collect companies’ views on the critical RRC/ASN.1 issues that need to be discussed, mainly coming from:

* Summary document of 6.4.2.3 for ASN.1 related issues in V2X session [2]
* Summary document for AI 6.4.2.1 – RRC aspects [3]
* Issues that identified as to be discussed from companies’ feedback in R2-XXXXX [1]

# Discussions

## Issue #N.XYZ: SL configuration in CU-DU architecture

The issue comes from [2]. Since which information is generated by CU and by DU would have impacts on RRC signaling structure, the potential impacts on NR SL related configurations need to be concluded and implemented in TS 38.331 before ASN.1 freeze. So this is a critical issue to be handled for the time being.

In the R15 NR Uu interface, for the UE’s AS configuration, the DU will generate the “lower layer” parameters and transmit those parameters to CU, e.g., by the INITIAL UL RRC MESSAGE TRANSFER, as defined in TS 38.473. Then the CU generates and add other “higher layer” parameters to construct the complete RRCReconfiguration message, which is to be delivered to UE as the AS configuration. In R15, the CellGroupConfig, including rlc-BearerToAddModList, is generated by DU and delivered to CU, while the radioBearerConfig is generated by CU.

When it comes to NR SL, as per R3 design [4], the DU should generate the configuration on RLC/MAC/PHY while the CU should generate the configuration on SDAP/PDCP/Measurement. Considering the legacy design of F1AP message, the potential impacts to RRC ASN.1 is that the configuration generated by DU should be defined in one IE, so that those parameters can be directly added in the RRCReconfiguration, together with those IEs generated by CU. In the current RRC SL configuration in RRCReconfiguration, those PHY, MAC, RLC, PDCP and SDAP configuration are mixed in SL-ConfigDedicatedNR, without such categorization.

Therefore, the following questions are asked.

* **Question 1:** Based on RAN3’s design, do companies agree to gather all the NR SL related configurations for RLC/MAC/PHY into one IE in *SL-ConfigDedicatedNR*?
1. Yes;
2. No.

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| **Companies** | **Preferred options** | **Comments if any** |
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* **Question 2:** If “Yes” is selected for Question 1, do companies agree the changes to TS 38.331 in Appendix?
1. Yes;
2. No. If this option is selected, please specify which specific configurations do you think should be gathered in the same IE in SL-ConfigDedicatedNR?

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| **Companies** | **Preferred options** | **Comments if any** |
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## Issue #N.XYZ: Delta trigger for SL-RSRP reporting

This issue comes from [3] and also [5] discussed last meeting. Considering that a number of companies (at least 10 companies) explicitly supported the need of it (as observed in [5, Q1]), and the reason why it was not concluded last time was the lack of time for detailed discussion, it is hard to easily determine whether it is critical, so that the need of it and potential solutions should be continuously discussed in this meeting.

However, considering that this has ASN.1 impacts, it should be noted that at this stage, it is unrealistic to send an LS to RAN1 for any check, because the round-trip correspondence time will lead to this feature impossibly captured into TS 38.331 in time before ASN.1 freeze (i.e. LS sent this meeting to RAN1 🡪 RAN1 replies in May meeting 🡪 RAN2 has no time to discuss the specific change before June). Also, it is noted that as always, the measurement and reporting mechanism is mainly designed in RAN2, which is certainly able to directly conclude what procedures and configurations are needed. Therefore, it is proposed that RAN2 to further discuss the need and potential solutions to introduce the “delta-RSRP” based event for SL-RSRP reporting, without sending any LS to RAN1.

* **Question 3:** Assuming no LS to RAN1, is an event based on “delta” SL-RSRP measurement results needed for the event triggered SL-RSRP reporting at the RX UE?
1. Yes. If the delta value between the current measured SL-RSRP and the last reported SL-RSRP exceeds a threshold, then the SL-RSRP reporting is triggered;
2. No, it is not needed.

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| **Companies** | **Preferred options** | **Comments if any** |
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## Issue #N.051: SR configuration for SL-SRBs

This is a left-over issue from email discussion [Post109e#54][V2X], as not enough companies’ inputs were collected, so that only the need can be discovered, without the concrete solution able to be reached. The specific issue is: now the SL-SRB configuration is specified but not NW configured, so no SR configuration can be configured for SL-SRBs in the current RRC spec; therefore, for a mode-1 UE, if an SL-BSR and SR is triggered by the logical channel of an SL-SRB, the UE can only depend on random access to request SL resources.

The reason why this issue is critical is that it may enforce the UE to have to rely on random access to request the SL grant for SL-SRB transmission, when an SL BSR is triggered by SCCH. Relying always on random access is obviously unacceptable. So below question is to resume the discussion of this issue.

* **Question 4:** Which of the following options do you agree, in order to make SL BSR triggered by the logical channel of SL-SRBs able to trigger SR transmission?
1. A list of *sl-SchedulingRequestId* is introduced to indicate the SR configurations used for SL SRBs. The SL-SRBs of different DSTs can be configured with different SR configuration IDs.
2. A list of *sl-SchedulingRequestId* is introduced to indicate the SR configurations used for SL SRBs. The SL-SRB of a specific SCCH is configured with a specific SR configuration ID without distinguishing to which DST the SL-SRB actually belongs.
3. An SR configuration ID is specified in the SL-SRB configuration of each SCCH respectively. When the NW configures an SR configuration with the SR configuration ID associated with an SL-SRB, the SR configuration is used for that SL-SRB.
4. When SL-BSR is triggered by SL-SRB, it can trigger SR transmission by using any SR configuration.
5. The SL-BSR triggered by SL-SRB cannot trigger SR transmission, but only rely on random access.

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| **Companies** | **Preferred options** | **Comments if any** |
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## Issue #N.039: Security related configuration in the AS for NR SL unicast

The issue comes from [3] and is also associated with N.039. RAN2 has not started the discussion on the security related configurations for NR SL unicast, but this has potential RRC impacts (procedure and/or signalling).

The discussion of this issue needs to be based on the current SA3 progress. According to the latest TS33.536 [6], the security related configurations are mainly exchanged via PC5-S signaling, whereas the main impact to AS seems to be the security policy for integrity protection and/or for ciphering, for PC5 RRC signalling and/or for UP data.

According to SA3 design, it seems that they would like to imitate Uu, and make the integrity protection and/or ciphering for PC5 RRC signaling and/or UP bearers able to be enabled/disabled in the AS for NR SL unicast. Furthermore, it is still under SA3 discussion on the granularity of such security policy (i.e. whether per service or per connection). This brings about the question on whether RAN2 needs to have a ciphering and integrity protection enabling/disabling mechanism as in Uu for NR SL unicast in the AS.

However, considering the limited time left for RAN2 before ASN.1 freeze, and the fact that SA3 still not reached crystal clear conclusion, RAN2 may also need to consider whether AS really supports the flexible security policy designed by SA3 in this release. For example, if time is not enough, maybe the ciphering and integrity protection are mandatorily used for each PC5 RRC connection in this release, as long as they are configured and exchanged between the peer UEs via PC5-S signaling.

Bearing above progress and situation in RAN2 and SA3, the following questions are asked towards the AS security related configurations for SL-SRBs and SL-DRBs in SL unicast.

* **Question 5:** From AS perspective, do companies agree that ciphering and/or integrity protection is mandatory for the SL-SRB carrying PC5 RRC message on a PC5 RRC connection between the two UEs for unicast?
1. Yes for ciphering (no support of flexible ciphering enabling/disabling);
2. Yes for integrity protection (no support of flexible integrity protection enabling/disabling);
3. No for ciphering;
4. No for integrity protection;
5. Wait for further SA3 progress.

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| **Companies** | **Preferred options** | **Comments if any** |
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* **Question 6:** From AS perspective,do companies agree that ciphering and/or integrity protection is mandatory for SL-DRBs on a PC5 RRC connection between the two UEs for unicast?
1. Yes for ciphering (no support of flexible ciphering enabling/disabling);
2. Yes for integrity protection (no support of flexible integrity protection enabling/disabling);
3. No for ciphering;
4. No for integrity protection;
5. Wait for further SA3 progress.

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| **Companies** | **Preferred options** | **Comments if any** |
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* **Question 7:** If Option c) or d) is selected to Question 6, how should the ciphering and/or integrity protection be enabled/disabled for the SL-DRBs on the PC5 RRC connection between the two UEs for unicast?
1. Yes, enable/disable ciphering in a per connection manner (applying to all SL-DRBs on this connection);
2. Yes, enable/disable ciphering in a per bearer manner;
3. Yes, enable/disable integrity protection in a per connection manner (applying to all SL-DRBs on this connection);
4. Yes, enable/disable integrity protection in a per bearer for ciphering;
5. No, not support any flexible security enabling/disabling mechanism for SL-DRB in this release;
6. Wait for further SA3 progress;
7. Others. If this option is selected, please indicate the specific solution.

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| **Companies** | **Preferred options** | **Comments if any** |
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In SL unicast, the security configuration and policy are actually configured and exchanged between the two peer UEs, so that they are invisible to the gNB. Therefore, if the flexible security policy of ciphering and integrity protection enabling/disabling is supported in the AS, there might be the case that on a PC5 RRC connection, the UEs may apply different ciphering/integrity protection policy (i.e. enabling/disabling) for the PC5 QoS flows which are however mapped to the same SL-DRB configuration provided by the gNB/preconfiguration (especially for RRC\_IDLE/INACTIVE/OoC UEs). To this end, it seems that the UE may need to configure different SL-DRBs for these QoS flows, based on the same SL-DRB configuration, and only map the QoS flows with the same ciphering and integrity onto the same SL-DRB configured.

* **Question 8:** Is it a possible case that a UE applies different ciphering and/or integrity protection policies (i.e. enabling/disabling) for the PC5 QoS flows which are mapped to the same SL-DRB (pre-)configurations by the NW? If yes, how to deal with them?
1. Yes, the UE configures different SL-DRBs for these PC5 QoS flow, and mapped the flows with the same ciphering/integrity protection policy (i.e. enabling/disabling) into the same SL-DRB;
2. Wait for further SA3 progress;
3. Others. If this option is selected, please indicate the specific solution.

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| **Companies** | **Preferred options** | **Comments if any** |
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## Issue #N.046: Header compression configuration in PC5-RRC for NR unicast

The issue comes from [1] where some companies are concerned about whether the below header compression configuration, *sl-HeaderCompression*, in RRCRecnfigurationSidelink should be kept or removed.

SL-PDCP-ConfigPC5-r16 ::= SEQUENCE {

 sl-PDCP-SN-Size-r16 ENUMERATED {len12bits, len18bits} OPTIONAL, -- Need N

 sl-HeaderCompression-r16 CHOICE {

 notUsed-r16 NULL,

 rohc-r16 SEQUENCE {

 maxCID-r16 INTEGER (1..16383) DEFAULT 15

 }

 },

 ...

}

The current situation is: some companies think that as per SA2 spec, only one of IP and non-IP traffic can be transmitted on a PC5 RRC connection, so there is no case where the IP and non-IP traffic are mapped to the same SLRB, and thus this configuration *sl-HeaderCompression* works for the SLRB for IP traffic; by contrast, some other companies think there may still be the case that IP and non-IP traffic are mixed in the same SLRB on a PC5 RRC connection (like for a DST in groupcast/ broadcast), so one SLRB can have different header compression attributes, and thus it is impossible to have this *sl-HeaderCompression.*

Below question is to discuss this issue, with focus on the AS impacts, i.e. whether to have this configuration in PC5 RRC message or not.Note that there seems to be no problem in NR SL, even if an SLRB is enabled with header compression but a non-IP packet is mapped to it, because with the help of SDU type in PDCP, the UE will not perform header compression to non-IP packet [7, 5.2.3/4]. Also, the bottom line would be to step back to LTE SL/V2X SL way of handling, i.e. leaving only the header compression configuration in preconfiguration (like in SL-PreconfigGeneral-r12), which can apply to all unicast/broadcast/groupcast without problem.

* **Question 9:** Should this field sl-HeaderCompression be included in RRCReconfgiurationSidelink?
1. Yes.
2. No.

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| **Companies** | **Preferred options** | **Comments if any** |
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## Issue #N.071 Numbering SL-SRBs or not

This is related to N.071 in [1]. The comments are as follows:

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| N.071(M107) | MediaTek | [Issue Description]Sidelink SRBs could be numbered.[Proposed Change] 5.8.1 GeneralReplace “One sidelink SRB” with “SL-SRB0/1/2/3” respectively. This would also need to propagate to the message definitions in section 6.6.2. |

The reason why this issue needs to be discuss is that, after numbering the SL-SRBs in TS 38.331, there might be potential changes led to other Specs, e.g. PDCP, with everywhere then needing to use this numbered SL-SRB. So it is better to check with companies whether this change, along with other potential changes it would result in, is worth.

* **Question 10:** Do companies agree to number the SL-SRB configurations in 9.1.1.4? If yes, what is the specific number for each SL-SRB configuration?
1. Yes. If this option is selected, please give specific the number for each SL-SRB configuration in 9.1.1.4.
2. No.

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| **Companies** | **Preferred options** | **Comments if any** |
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## Issue #N.009 SLRB configuration procedure

This is a subsequent discussion of #N.009 in email discussion [Post109e#54][V2X], where two FFS were left over therein:

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| **Proposal 8: RAN2 further discuss the following two issues for SLRB configuration procedures in 5.8.9.1.4 and 5.8.9.1.5 and decide whether any changes are needed. Other changes are to be discussed in WI specific TS 38.331 CR reviewing.*** **Whether there is a need to separate the SLRB addition/modification/release procedures for Gcast/Bcast and Ucast**
* **Whether the SL DRB release conditions need to be changed, and if yes, what specific case is missing and/or needs to be corrected.**
 |

The first bullet mainly comes from the two Tdoc: 1) R2-2002625 (OPPO) changes on 5.x.9.1.4.2, 2) R2-2003679 (Samsung) P1.

The second bullet mainly comes from P2-4 in R2-2002624(OPPO).

**For the 1st bullet**

As to the concerns from R2-2002625 (OPPO) changes on 5.x.9.1.4.2, rapporteur has sympathy with the intention and will include the proposed changes in the next version of running CR.

As to the P1 from R2-2003679 (Samsung), company proposes that SL DRB addition/modification/release procedures for TX UE in SL groupcast/broadcast should be specified in a new subclause of section 5.8.9, in order to differentiate with the unicast.

Therefore, rapporteur would like to ask companies the following question?

* **Question 11:** Which option below do you prefer?
1. The current spec style: the SL DRB addition/modification/release procedures for all cast types are captured in the subclauses 5.8.9.1.4 and 5.8.9.1.5. (no distinction between procedures of Ucast and Gcast/Bcast)
2. A proposed CR: Move the description for broadcast/groupcast DRB into new sections in 5.8.9.1.x, 5.8.9.1.y, and change subclauses 5.8.9.1.4 and 5.8.9.1.5 as dedicated for unicast SL DRB. (distinguishing procedures of Ucast and Gcast/Bcast)

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| **Companies** | **Preferred options** | **Comments if any** |
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**For the 2nd bullet**

Before we go to the next question, rapporteur would like to clarify the current spec on the “5.8.9.1.4.1 Sidelink DRB release conditions”, because the concern from P1 in R2-2003679 (Samsung) for bullet 1 may come from a misunderstanding to the spec. And also, the concern from P2-4 in R2-2002624 (OPPO) for bullet 2 may come from a different preference again the current spec.

For the SL DRB release condition, based on the following spec:

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| 5.8.9.1.4.1 Sidelink DRB release conditionsFor NR sidelink communication, a sidelink DRB release is initiated only in the following cases: 1> for the *slrb-Uu-ConfigIndex* (if any) of the sidelink DRB, if *slrb-Uu-ConfigIndex* isincluded in *sl-RadioBearerToReleaseList* in *sl-ConfigDedicatedNR*,or if no sidelink QoS flow with data indicated by upper layers is mapped to the sidelink DRB for transmission, which is (re)configured by receiving *SIB12* or *SidelinkPreconfigNR*; and1> for the *slrb-PC5-ConfigIndex* (if any) of the sidelink DRB, if *slrb-PC5-ConfigIndex* isincluded in *slrb-ConfigToReleaseList* in *RRCReconfigurationSidelink*, or if the sidelink QoS flow mapped to the sidelink DRB, which is (re)configured by receiving *RRCReconfigurationSidelink*, has no data; |

For each SL DRB, the current SL-DRB release procedures work as follows; whether the DRB can be released needs to check:

* Case 1: This DRB was configured with *slrb-Uu-ConfigIndex* before and this DRB was also configured with *slrb-PC5-ConfigIndex* before: With the two “(if any)” satisfied, UE needs to check both (i.e. “and”) buttet 1>
* In this case, this DRB is configured by its NW via *slrb-Uu-ConfigIndex* and also by its peer UE via *slrb-PC5-ConfigIndex.* The DRB is used for bi-direction transmittion. **It should be relased only after both its NW and its peer UE inform that the DRB is not needed anymore**.
* Case 2: This DRB was only configured with *slrb-Uu-ConfigIndex* before: With the 1st “(if any)” satisfied, UE only needs to check 1st buttet 1>, since the (if any) in the 2nd bullet 1>is not satisfied.
* In this case, this DRB is only configured by its NW for transmission to the peer UE. As long as the NW informs the release of the DRB, UE can directly release that.
* Case 3: This DRB was only configured with *slrb-PC5-ConfigIndex* before: With the 2nd “(if any)” satisfied, UE only needs to check 2nd buttet 1>, since the (if any) in the 1st bullet 1> is not satisfied.
* In this case, this DRB is only configured by its peer UE for reception. As long as the peer UE informs the release of the DRB, UE can directly release that.

A different mechanism is proposed as P2/3 in R2-2002624 as below:

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| Proposal 2 RAN2 confirm CONNECTED UE **perform the network command on SLRB release immediately** for all cast types, and rely on network implementation to ensure there is no need to carry the L2 feedback for the counterpart SLRB for unicast.Proposal 3 RAN2 confirm unicast UE **perform the AS-layer configuration command from the counterpart UE immediately,** and rely on UE implementation to ensure there is no need to carry the L2 feedback for the counterpart SLRB. |

With the proposal 2/3, even in **case 1** above, the UE should release the DRB as long as either NW or peer UE informs the release.

Therefore, rapporteur would like to ask companies following questions?

* **Question 12:** Which option do you prefer on the SL DRB release condition in 5.8.9.1.4.1: for the SL DRB, which was configured both by its NW and by its peer UE for bi-direction transmission (e.g. data or feedback)?
1. The current spec style: UE releases the DRB only after *both* its NW *and* its peer UE inform the SL DRB release, which means transmissions in both directions finish.
2. A proposed CR: UE releases the DRB once *either* its NW *or* its peer UE inform the SL DRB release, which means the coordination between its NW and its peer UE to determine whether both direction transmission finish is required by implementation.

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| **Companies** | **Preferred options** | **Comments if any** |
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# Conclusion

# References

1. R2-20xxxxx Updated RRC Open Issue List for 5G V2X with NR SL Huawei, HiSilicon
2. R2-2003560 Summary document of 6.4.2.3 for ASN.1 related issues in V2X session Huawei, HiSilicon
3. R2-2003520 Summary document for AI 6.4.2.1 - RRC aspects Huawei, HiSilicon
4. RAN3 #106 meeting minutes
5. R2-2001965 Report for the offline discussion on Category-2 proposals in RRC summary Huawei (Rapporteur)
6. TS 33.536, V1.1.0
7. TS 38.323, V16.0.0

# Appendix: Prototype change for Question 2

– *SL-ConfigDedicatedNR*

The IE *SL-ConfigDedicatedNR* specifies the dedicated configuration information for NR sidelink communication.

***SL-ConfigDedicatedNR* information element**

-- ASN1START

-- TAG-SL-CONFIGDEDICATEDNR-START

SL-ConfigDedicatedNR-r16 ::= SEQUENCE {

 ~~sl-ScheduledConfig-r16 SetupRelease { SL-ScheduledConfig-r16 } OPTIONAL, -- Need M~~

 ~~sl-UE-SelectedConfig-r16 SetupRelease { SL-UE-SelectedConfig-r16 } OPTIONAL, -- Need M~~

 ~~sl-FreqInfoToReleaseList-r16 SEQUENCE (SIZE (1..maxNrofFreqSL-r16)) OF ARFCN-ValueNR OPTIONAL, -- Need N~~

 ~~sl-FreqInfoToAddModList-r16 SEQUENCE (SIZE (1..maxNrofFreqSL-r16)) OF SL-FreqConfig-r16 OPTIONAL, -- Need N~~

 sl-RadioBearerToReleaseList-r16 SEQUENCE (SIZE (1..maxNrofSLRB-r16)) OF SLRB-Uu-ConfigIndex-r16 OPTIONAL, -- Need N

 sl-RadioBearerToAddModList-r16 SEQUENCE (SIZE (1..maxNrofSLRB-r16)) OF SL-RadioBearerConfig-r16 OPTIONAL, -- Need N

 ~~sl-RLC-BearerToReleaseList-r16 SEQUENCE (SIZE (1..maxSL-LCID-r16)) OF SL-RLC-BearerConfigIndex-r16 OPTIONAL, -- Need N~~

 ~~sl-RLC-BearerToAddModList-r16 SEQUENCE (SIZE (1..maxSL-LCID-r16)) OF SL-RLC-BearerConfig-r16 OPTIONAL, -- Need N~~

 sl-MeasConfigInfoToReleaseList-r16 SEQUENCE (SIZE (1..maxNrofSL-Dest-r16)) OF SL-DestinationIndex-r16 OPTIONAL, -- Need N

 sl-MeasConfigInfoToAddModList-r16 SEQUENCE (SIZE (1..maxNrofSL-Dest-r16)) OF SL-MeasConfigInfo-r16 OPTIONAL, -- Need M

 t400-r16 ENUMERATED {ms100, ms200, ms300, ms400, ms600, ms1000, ms1500, ms2000} OPTIONAL, -- Need M

 ~~sl-CSI-Acquisition-r16 ENUMERATED {enabled} OPTIONAL, -- Need N~~

 ~~sl-CSI-SchedulingRequestId-r16 SchedulingRequestId OPTIONAL, -- Need N~~

 ~~sl-SSB-PriorityNR-r16 INTEGER (1..8) OPTIONAL, -- Need N~~

 ~~sl-PUCCH-Config-r16 PUCCH-Config OPTIONAL, -- Need N~~

 ~~sl-PDCCH-Config-r16 PDCCH-Config OPTIONAL, -- Need N~~

 ~~networkControlledSyncTx-r16 ENUMERATED {on, off} OPTIONAL, -- Need N~~

sl-PHY-MAC-RLC-Config-r16 SL-PHY-MAC-RLC-Config-r16 OPTIONAL, -- Need M

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}

SL-PHY-MAC-RLC-Config-r16::= SEQUENCE {

 sl-ScheduledConfig-r16 SetupRelease { SL-ScheduledConfig-r16 } OPTIONAL, -- Need M

 sl-UE-SelectedConfig-r16 SetupRelease { SL-UE-SelectedConfig-r16 } OPTIONAL, -- Need M

 sl-FreqInfoToReleaseList-r16 SEQUENCE (SIZE (1..maxNrofFreqSL-r16)) OF ARFCN-ValueNR OPTIONAL, -- Need N

 sl-FreqInfoToAddModList-r16 SEQUENCE (SIZE (1..maxNrofFreqSL-r16)) OF SL-FreqConfig-r16 OPTIONAL, -- Need N

 sl-RLC-BearerToReleaseList-r16 SEQUENCE (SIZE (1..maxSL-LCID-r16)) OF SL-RLC-BearerConfigIndex-r16 OPTIONAL, -- Need N

 sl-RLC-BearerToAddModList-r16 SEQUENCE (SIZE (1..maxSL-LCID-r16)) OF SL-RLC-BearerConfig-r16 OPTIONAL, -- Need N

 sl-CSI-Acquisition-r16 ENUMERATED {enabled} OPTIONAL, -- Need N

 sl-CSI-SchedulingRequestId-r16 SchedulingRequestId OPTIONAL, -- Need N

 sl-SSB-PriorityNR-r16 INTEGER (1..8) OPTIONAL, -- Need N

 sl-PUCCH-Config-r16 PUCCH-Config OPTIONAL, -- Need N

 sl-PDCCH-Config-r16 PDCCH-Config OPTIONAL, -- Need N

 networkControlledSyncTx-r16 ENUMERATED {on, off} OPTIONAL, -- Need N

}

SL-DestinationIndex-r16 ::= INTEGER (0..maxNrofSL-Dest-1-r16)

-- TAG-SL-CONFIGDEDICATEDNR-STOP

-- ASN1STOP