**3GPP TSG-RAN WG3 #107-e *R3-20xxxx***

**Online, 24th February - 06th March 2020**

**Agenda Item: 20.2.2**

**Source: Ericsson, ZTE?**

**Title: TP to F1 BL CR: Support of NR V2X over F1**

**Document for: others**

1 TP to F1AP BL CR: addition of NR V2X SIBs to

**START OF CHANGES**

9.3.1.18 gNB-DU System Information

This IE contains the system information generated by the gNB-DU.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IE/Group Name** | **Presence** | **Range** | **IE type and reference** | **Semantics description** | **Criticality** | **Assigned criticality** |
| MIB message | M |  | OCTET STRING | MIB message, as defined in TS 38.331 [8]. | - |  |
| SIB1 message | M |  | OCTET STRING | SIB1 message, as defined in TS 38.331 [8]. | - |  |
| V2X SIBs message  | O |  | OCTET STRING | NR V2X SIB messages, as defined in TS 38.331 [8]. (FFS) | - | Ignore |

Editor’s note: pending on RAN2’s progress, currently SIBs X,Y and Z are the V2X SIBs defined in TS 38.331

**NEXT CHANGE**

Editor’s note: decision between option 1 or 2 will be based upon RAN3 discussion and RAN2 feedback.

9.4.3 Elementary Procedure Definitions

-- ASN1START

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Elementary Procedure definitions

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**NEXT CHANGE**

**NEXT CHANGE**

9.4.4 PDU Definitions

-- ASN1START

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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-- PDU definitions for F1AP.

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

 SymbolAllocInSlot,

 Slot-Configuration-Item,

 NumDLULSymbols,

 AdditionalRRMPriorityIndex,

 DUCURadioInformationType,

 CUDURadioInformationType,

 Transport-Layer-Addresses-Info,

 NRV2XServicesAuthorized,

 LTEV2XServicesAuthorized,

 LTEUESidelinkAggregateMaximumBitrate,

 SidelinkUEInformation, (FFS)

 CG-ConfigInfo (FFS)

FROM F1AP-IEs

**NEXT CHANGE**

 id-CUDURadioInformationType,

 id-LowerLayerPresenceStatusChange,

 id-Transport-Layer-Addresses-Info,

 id-SidelinkUEInformation, (FFS)

 id-CG-ConfigInfo, (FFS)

 id-v2xsIB-message,

 maxCellingNBDU,

 maxnoofCandidateSpCells,

 maxnoofDRBs,

 maxnoofErrors,

 maxnoofIndividualF1ConnectionsToReset,

 maxnoofPotentialSpCells,

 maxnoofSCells,

 maxnoofSRBs,

 maxnoofPagingCells,

 maxnoofTNLAssociations,

 maxCellineNB,

 maxnoofUEIDs,

 maxnoofslots

FROM F1AP-Constants;

**NEXT CHANGE**

9.4.5 Information Element Definitions

-- ASN1START

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- Information Element Definitions

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

F1AP-IEs {

itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)

ngran-access (22) modules (3) f1ap (3) version1 (1) f1ap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS

 id-gNB-CUSystemInformation,

 id-HandoverPreparationInformation,

 id-TAISliceSupportList,

 id-RANAC,

 id-BearerTypeChange,

 id-Cell-Direction,

 id-Cell-Type,

 id-CellGroupConfig,

 id-AvailablePLMNList,

 id-PDUSessionID,

 id-ULPDUSessionAggregateMaximumBitRate,

 id-DC-Based-Duplication-Configured,

 id-DC-Based-Duplication-Activation,

 id-Duplication-Activation,

 id-DLPDCPSNLength,

 id-ULPDCPSNLength,

 id-RLC-Status,

 id-MeasurementTimingConfiguration,

 id-DRB-Information,

 id-QoSFlowMappingIndication,

 id-ServingCellMO,

 id-RLCMode,

 id-ExtendedServedPLMNs-List,

 id-ExtendedAvailablePLMN-List,

 id-DRX-LongCycleStartOffset,

 id-SelectedBandCombinationIndex,

 id-SelectedFeatureSetEntryIndex,

 id-Ph-InfoSCG,

 id-latest-RRC-Version-Enhanced,

 id-RequestedBandCombinationIndex,

 id-RequestedFeatureSetEntryIndex,

 id-RequestedP-MaxFR2,

 id-DRX-Config,

 id-UEAssistanceInformation,

 id-PDCCH-BlindDetectionSCG,

 id-Requested-PDCCH-BlindDetectionSCG,

 id-BPLMN-ID-Info-List,

 id-NotificationInformation,

 id-TNLAssociationTransportLayerAddressgNBDU,

 id-portNumber,

 id-AdditionalSIBMessageList,

 id-IgnorePRACHConfiguration,

 id-CG-Config,

 id-Ph-InfoMCG,

 id-AggressorgNBSetID,

 id-VictimgNBSetID,

 id-MeasGapSharingConfig,

 id-systemInformationAreaID,

 id-SidelinkUEInformation (FFS),

 id-CG-ConfigInfo, (FFS)

 id-v2xsIB-message,

 maxNRARFCN,

 maxnoofErrors,

 maxnoofBPLMNs,

 maxnoofBPLMNsNRminus1,

 maxnoofDLUPTNLInformation,

 maxnoofNrCellBands,

 maxnoofULUPTNLInformation,

 maxnoofQoSFlows,

 maxnoofSliceItems,

 maxnoofSIBTypes,

 maxnoofSITypes,

 maxCellineNB,

 maxnoofExtendedBPLMNs,

 maxnoofAdditionalSIBs,

 maxnoofUACPLMNs,

 maxnoofUACperPLMN

**UNCHANGED PART OMITTED**

GNB-DU-System-Information ::= SEQUENCE {

 mIB-message MIB-message,

 sIB1-message SIB1-message,

 iE-Extensions ProtocolExtensionContainer { { GNB-DU-System-Information-ExtIEs } } OPTIONAL,

 ...

}

GNB-DU-System-Information-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

 {ID id-v2xsIB-message CRITICALITY reject EXTENSION V2XSIB-message PRESENCE optional},

 ...

}

**UNCHANGED PART OMITTED**

-- S

 SidelinkUEInformation (FFS)::= OCTET STRING

**UNCHANGED PART OMITTED**

-- V

 V2XSIB-message ::= OCTET STRING

**NEXT CHANGE**

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

--

-- IEs

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**UNCHANGED PART OMITTED**

id-NRV2XServicesAuthorized ProtocolIE-ID ::= xxx

id-LTEV2XServicesAuthorized ProtocolIE-ID ::= xxy

id-NRUESidelinkAggregateMaximumBitrate ProtocolIE-ID ::= xyy

id-LTEUESidelinkAggregateMaximumBitrate ProtocolIE-ID ::= yyy

(FFS)id-LTEV2XSidelinkInfoList ProtocolIE-ID ::= xxz

(FFS)id-NRSidelinkInfoList ProtocolIE-ID ::= xzz

id-SidelinkUEInformation (FFS) ProtocolIE-ID ::= xx1

id-v2xsIB-message ProtocolIE-ID ::= xx2

id-CG-ConfigInfo (FFS) ProtocolIE-ID ::= xx3

END

-- ASN1STOP

**END OF CHANGE**