**3GPP TSG-RAN WG3 Meeting #121 R3-234674**

**Toulouse, France, 21st – 25th August 2023**

**Title:** (TP for 38.423) Authorization for U2U relay

**Source:** Ericsson, LG Electronics

**Agenda item:** 16.2

**Document Type:** Discussion

1. Introduction

Two new authorization information for U2U relay are introduced to TP for TS 38.423 BL CR.

Annex1: TP for 38.423

9.2.3.159 5G ProSe Authorized

This IE provides information on the authorization status of the UE to use the 5G ProSe services.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| 5G ProSe Direct Discovery | O |  | ENUMERATED (authorized, not authorized, ...) | Indicates whether the UE is authorized for 5G ProSe Direct Discovery. | – |  |
| 5G ProSe Direct Communication | O |  | ENUMERATED (authorized, not authorized, ...) | Indicates whether the UE is authorized for 5G ProSe Direct Communication. | – |  |
| 5G ProSe Layer-2 UE-to-Network Relay | O |  | ENUMERATED (authorized, not authorized, ...) | Indicates whether the UE is authorized for 5G ProSe Layer-2 UE-to-Network Relay. | – |  |
| 5G ProSe Layer-3 UE-to-Network Relay | O |  | ENUMERATED (authorized, not authorized, ...) | Indicates whether the UE is authorized for 5G ProSe Layer-3 UE-to-Network Relay. | – |  |
| 5G ProSe Layer-2 Remote UE | O |  | ENUMERATED (authorized, not authorized, ...) | Indicates whether the UE is authorized for 5G ProSe Layer-2 Remote UE. | – |  |
| 5G ProSe Layer-2 Multi-path | O |  | ENUMERATED (authorized, not authorized, ...) | Indicates whether the 5G ProSe Layer-2 Remote UE is authorized for 5G ProSe Multi-path transmission. | YES | ignore |
| 5G ProSe Layer-2 UE-to-UE Relay  | O |  | ENUMERATED (authorized, not authorized, ...) | Indicates whether the UE is authorized for 5G ProSe Layer-2 UE-to-UE Relay UE | YES | ignore |
| 5G ProSe Layer-2 UE-to-UE Remote | O |  | ENUMERATED (authorized, not authorized, ...) | Indicates whether the UE is authorized for 5G ProSe Layer-2 UE-to-UE Remote UE. | YES | ignore |

**<<<<<< NEXT CHANGE >>>>>>**

### 9.3.5 Information Element definitions

-- ASN1START

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

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-- Information Element Definitions

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

XnAP-IEs {

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

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

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS

 id-CNTypeRestrictionsForEquivalent,

 id-CNTypeRestrictionsForServing,

 id-Additional-UL-NG-U-TNLatUPF-List,

 id-ConfiguredTACIndication,

 id-AlternativeQoSParaSetList,

 id-CurrentQoSParaSetIndex,

 id-DefaultDRB-Allowed,

 id-DLCarrierList,

 id-EndpointIPAddressAndPort,

 id-ExtendedReportIntervalMDT,

 id-ExtendedTAISliceSupportList,

 id-FiveGCMobilityRestrictionListContainer,

 id-SecondarydataForwardingInfoFromTarget-List,

 id-LastE-UTRANPLMNIdentity,

 id-IntendedTDD-DL-ULConfiguration-NR,

 id-MaxIPrate-DL,

 id-SecurityResult,

 id-OldQoSFlowMap-ULendmarkerexpected,

 id-PDUSessionCommonNetworkInstance,

 id-PDUSession-PairID,

 id-BPLMN-ID-Info-EUTRA,

 id-BPLMN-ID-Info-NR,

 id-DRBsNotAdmittedSetupModifyList,

 id-Secondary-MN-Xn-U-TNLInfoatM,

 id-ULForwardingProposal,

 id-DRB-IDs-takenintouse,

 id-SplitSessionIndicator,

 id-NonGBRResources-Offered,

 id-MDT-Configuration,

 id-TraceCollectionEntityURI,

 id-NPN-Broadcast-Information,

 id-NPNPagingAssistanceInformation,

 id-NPNMobilityInformation,

 id-NPN-Support,

 id-LTEUESidelinkAggregateMaximumBitRate,

 id-NRUESidelinkAggregateMaximumBitRate,

 id-ExtendedRATRestrictionInformation,

 id-QoSMonitoringRequest,

 id-QoSMonitoringDisabled,

 id-QosMonitoringReportingFrequency,

 id-DAPSRequestInfo,

 id-OffsetOfNbiotChannelNumberToDL-EARFCN,

 id-OffsetOfNbiotChannelNumberToUL-EARFCN,

 id-NBIoT-UL-DL-AlignmentOffset,

 id-TDDULDLConfigurationCommonNR,

 id-CarrierList,

 id-ULCarrierList,

 id-FrequencyShift7p5khz,

 id-SSB-PositionsInBurst,

 id-NRCellPRACHConfig,

 id-Redundant-UL-NG-U-TNLatUPF,

 id-Redundant-DL-NG-U-TNLatNG-RAN,

 id-CNPacketDelayBudgetDownlink,

 id-CNPacketDelayBudgetUplink,

 id-ExtendedPacketDelayBudget,

 id-Additional-Redundant-UL-NG-U-TNLatUPF-List,

 id-RedundantCommonNetworkInstance,

 id-TSCTrafficCharacteristics,

 id-RedundantQoSFlowIndicator,

 id-Additional-PDCP-Duplication-TNL-List,

 id-RedundantPDUSessionInformation,

 id-UsedRSNInformation,

 id-RLCDuplicationInformation,

 id-CSI-RSTransmissionIndication,

 id-UERadioCapabilityID,

 id-secondary-SN-UL-PDCP-UP-TNLInfo,

 id-pdcpDuplicationConfiguration,

 id-duplicationActivation,

 id-NPRACHConfiguration,

 id-QoSFlowsMappedtoDRB-SetupResponse-MNterminated,

 id-DL-scheduling-PDCCH-CCE-usage,

 id-UL-scheduling-PDCCH-CCE-usage,

 id-SFN-Offset,

 id-QoS-Mapping-Information,

 id-AdditionLocationInformation,

 id-dataForwardingInfoFromTargetE-UTRANnode,

 id-Cause,

 id-SecurityIndication,

 id-RRCConnReestab-Indicator,

 id-SourceDLForwardingIPAddress,

 id-SourceNodeDLForwardingIPAddress,

 id-M4ReportAmount,

 id-M5ReportAmount,

 id-M6ReportAmount,

 id-M7ReportAmount,

 id-BeamMeasurementIndicationM1,

 id-Supported-MBS-FSA-ID-List,

 id-MBS-SessionAssociatedInformation,

 id-MBS-SessionInformation-List,

 id-SliceRadioResourceStatus-List,

 id-CompositeAvailableCapacitySupplementaryUplink,

 id-SSBOffsets-List,

 id-NG-RANnode2SSBOffsetsModificationRange,

 id-NR-U-Channel-List,

 id-NR-U-ChannelInfo-List,

 id-MIMOPRBusageInformation,

 id-UEAssistantIdentifier,

 id-IAB-MT-Cell-List,

 id-NoPDUSessionIndication,

 id-permutation,

 id-UL-GNB-DU-Cell-Resource-Configuration,

 id-DL-GNB-DU-Cell-Resource-Configuration,

 id-tdd-GNB-DU-Cell-Resource-Configuration,

 id-Additional-Measurement-Timing-Configuration-List,

 id-SurvivalTime,

 id-Local-NG-RAN-Node-Identifier,

 id-Neighbour-NG-RAN-Node-List,

 id-FiveGProSeUEPC5AggregateMaximumBitRate,

 id-Redcap-Bcast-Information,

 id-UESliceMaximumBitRateList,

 id-PositioningInformation,

 id-ServedCellSpecificInfoReq-NR,

 id-TAINSAGSupportList,

 id-earlyMeasurement,

 id-BeamMeasurementsReportConfiguration,

 id-CoverageModificationCause,

 id-UERLFReportContainerLTEExtension,

 id-ExcessPacketDelayThresholdConfiguration,

 id-FiveGProSeLayer2Multipath,

 id-FiveGProSeLayer2UEtoUERelay,

 id-FiveGProSeLayer2UEtoUERemote,

 id-CandidateRelayUEInfoList,

 maxEARFCN,

 maxnoofAllowedAreas,

 maxnoofAMFRegions,

 maxnoofAoIs,

 maxnoofBPLMNs,

 maxnoofCAGs,

 maxnoofCAGsperPLMN,

 maxnoofCellsinAoI,

 maxnoofCellsinNG-RANnode,

 maxnoofCellsinRNA,

 maxnoofCellsinUEHistoryInfo,

 maxnoofCellsUEMovingTrajectory,

 maxnoofDRBs,

**<<<<<< Skip unchanged >>>>>>**

FiveGProSeAuthorized ::= SEQUENCE {

 fiveGproSeDirectDiscovery FiveGProSeDirectDiscovery OPTIONAL,

 fiveGproSeDirectCommunication FiveGProSeDirectCommunication OPTIONAL,

 fiveGnrProSeLayer2UEtoNetworkRelay FiveGProSeLayer2UEtoNetworkRelay OPTIONAL,

 fiveGnrProSeLayer3UEtoNetworkRelay FiveGProSeLayer3UEtoNetworkRelay OPTIONAL,

 fiveGnrProSeLayer2RemoteUE FiveGProSeLayer2RemoteUE OPTIONAL,

 iE-Extensions ProtocolExtensionContainer { {FiveGProSeAuthorized-ExtIEs} } OPTIONAL,

 ...

}

FiveGProSeAuthorized-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

 { ID id-FiveGProSeLayer2Multipath CRITICALITY ignore EXTENSION FiveGProSeLayer2Multipath PRESENCE optional}|

 { ID id-FiveGProSeLayer2UEtoUERelay CRITICALITY ignore EXTENSION FiveGProSeLayer2UEtoUERelay PRESENCE optional}|

 { ID id-FiveGProSeLayer2UEtoUERemote CRITICALITY ignore EXTENSION FiveGProSeLayer2UEtoUERemote PRESENCE optional},

 ...

}

FiveGProSeLayer2RemoteUE ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveGProSeLayer2Multipath ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveGProSeLayer2UEtoUERelay ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveGProSeLayer2UEtoUERemote ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveGProSePC5QoSParameters ::= SEQUENCE {

 fiveGProSepc5QoSFlowList FiveGProSePC5QoSFlowList,

 fiveGproSepc5LinkAggregateBitRates BitRate OPTIONAL,

 iE-Extensions ProtocolExtensionContainer { { FiveGProSePC5QoSParameters-ExtIEs} } OPTIONAL,

 ...

}

**<<<<<< Skip unchanged >>>>>>**

### 9.3.7 Constant definitions

-- ASN1START

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

--

-- Constant definitions

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

XnAP-Constants {

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

ngran-Access (22) modules (3) xnap (2) version1 (1) xnap-Constants (4) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

**<<<<<< Skip unchanged >>>>>>**

id-UERLFReportContainerLTEExtension ProtocolIE-ID ::= 370

id-ExcessPacketDelayThresholdConfiguration ProtocolIE-ID ::= 371

id-HashedUEIdentityIndexValue ProtocolIE-ID ::= 372

id-FiveGProSeLayer2Multipath ProtocolIE-ID ::= xx1

id-FiveGProSeLayer2UEtoUERelay ProtocolIE-ID ::= xx2

id-FiveGProSeLayer2UEtoUERemote ProtocolIE-ID ::= xx3

id-CandidateRelayUEInfoList ProtocolIE-ID ::= xx4