**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

**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

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--

-- 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