**3GPP TSG-RAN WG3 Meeting #121 R3-234667**

**Toulouse, FR, 21th – 25th August 2023**

**Title:** (TP for 38.473) Authorization for U2U relay

**Source:** Huawei, LG Electronics

**Agenda item:** 16.2

**Document Type:** Discussion

1. Introduction

This TP captures agreements on Authorization for U2U relay.

Annex1: TP for 38.473

<< Change Starts>>

9.3.1.268 5G ProSe Authorized

This IE provides information on the authorization status of the UE for NR 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**------------------------------------

----------------------------------**ASN.1 start**------------------------------------

### 9.4.5 Information Element Definitions

-- ASN1START

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

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-- 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,

[snip]

 id-UL-GapFR2-Config,

 id-ConfigRestrictInfoDAPS,

 id-MulticastF1UContextReferenceCU,

 id-TwoPHRModeMCG,

 id-TwoPHRModeSCG,

 id-ncd-SSB-RedCapInitialBWP-SDT,

 id-nrofSymbolsExtended,

 id-repetitionFactorExtended,

 id-startRBHopping,

 id-startRBIndex,

 id-transmissionCombn8,

 id-FiveG-ProSeLayer2Multipath,

 id-FiveG-ProSeLayer2UEtoUERelay,

 id-FiveG-ProSeLayer2UEtoUERemote, maxNRARFCN,

 maxnoofErrors,

 maxnoofBPLMNs,

[snip]

----------------------------------**Omit Unchanged**------------------------------------

FiveG-ProSeAuthorized ::= SEQUENCE {

 fiveG-proSeDirectDiscovery FiveG-ProSeDirectDiscovery OPTIONAL,

 fiveG-proSeDirectCommunication FiveG-ProSeDirectCommunication OPTIONAL,

 fiveG-ProSeLayer2UEtoNetworkRelay FiveG-ProSeLayer2UEtoNetworkRelay OPTIONAL,

 fiveG-ProSeLayer3UEtoNetworkRelay FiveG-ProSeLayer3UEtoNetworkRelay OPTIONAL,

 fiveG-ProSeLayer2RemoteUE FiveG-ProSeLayer2RemoteUE OPTIONAL,

 iE-Extensions ProtocolExtensionContainer { {FiveG-ProSeAuthorized-ExtIEs} } OPTIONAL,

 ...

}

FiveG-ProSeAuthorized-ExtIEs F1AP-PROTOCOL-EXTENSION ::= {

 { ID id-FiveG-ProSeLayer2Multipath CRITICALITY ignore EXTENSION FiveG-ProSeLayer2Multipath PRESENCE optional }|

 { ID id-FiveG-ProSeLayer2UEtoUERelay CRITICALITY ignore EXTENSION FiveG-ProSeLayer2UEtoUERelay PRESENCE optional }|

 { ID id-FiveG-ProSeLayer2UEtoUERemote CRITICALITY ignore EXTENSION FiveG-ProSeLayer2UEtoUERemote PRESENCE optional },

 ...

}

FiveG-ProSeDirectDiscovery ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveG-ProSeDirectCommunication ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveG-ProSeLayer2UEtoNetworkRelay ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveG-ProSeLayer3UEtoNetworkRelay ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveG-ProSeLayer2RemoteUE ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveG-ProSeLayer2Multipath ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveG-ProSeLayer2UEtoUERelay ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveG-ProSeLayer2UEtoUERemote ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

Flows-Mapped-To-DRB-List ::= SEQUENCE (SIZE(1.. maxnoofQoSFlows)) OF Flows-Mapped-To-DRB-Item

Flows-Mapped-To-DRB-Item ::= SEQUENCE {

 qoSFlowIdentifier QoSFlowIdentifier,

 qoSFlowLevelQoSParameters QoSFlowLevelQoSParameters,

 iE-Extensions ProtocolExtensionContainer { { Flows-Mapped-To-DRB-ItemExtIEs} } OPTIONAL

}

Flows-Mapped-To-DRB-ItemExtIEs F1AP-PROTOCOL-EXTENSION ::= {

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

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

 ...

}

[snip]

----------------------------------**Next Change**------------------------------------

### 9.4.7 Constant Definitions

-- ASN1START

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

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-- Constant definitions

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

----------------------------------**Omit Unchanged**------------------------------------

id-ServingCellMO-List ProtocolIE-ID ::= 695

id-ServingCellMO-List-Item ProtocolIE-ID ::= 696

id-ServingCellMO-encoded-in-CGC-List ProtocolIE-ID ::= 697

id-HashedUEIdentityIndexValue ProtocolIE-ID ::= 698

id-UE-MulticastMRBs-Setupnew-List ProtocolIE-ID ::= 699

id-UE-MulticastMRBs-Setupnew-Item ProtocolIE-ID ::= 700

id-ncd-SSB-RedCapInitialBWP-SDT ProtocolIE-ID ::= 701

id-nrofSymbolsExtended ProtocolIE-ID ::= 702

id-repetitionFactorExtended ProtocolIE-ID ::= 703

id-startRBHopping ProtocolIE-ID ::= 704

id-startRBIndex ProtocolIE-ID ::= 705

id-transmissionCombn8 ProtocolIE-ID ::= 706

id-FiveG-ProSeLayer2Multipath ProtocolIE-ID ::= 900 -- assigned by MCC

id-PathAdditionInformation ProtocolIE-ID ::= 901 -- assigned by MCC

END

-- ASN1STOP