**3GPP TSG-RAN WG3 Meeting #121 R3-234693**

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

**Title:** (TP for BL CR 38.413) Support ProSe Authorization information for UE-to-UE Relay operation

**Source:** Nokia, Nokia Shanghai Bell

**Agenda item:** 16.2

**Document Type:** Discussion

1. Introduction

This TP captures agreements on Authorization for U2U relay.

Annex1: TP for 38.413 BL CR

<< Change Starts>>

<<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

#### 9.3.1.233 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 >>>>>>>>>>>>>>>>>>>>

### 9.4.5 Information Element Definitions

-- ASN1START

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

--

-- Information Element Definitions

--

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

NGAP-IEs {

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

ngran-Access (22) modules (3) ngap (1) version1 (1) ngap-IEs (2) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

IMPORTS

 id-AdditionalDLForwardingUPTNLInformation,

 id-AdditionalULForwardingUPTNLInformation,

 id-AdditionalDLQosFlowPerTNLInformation,

<<<<<<<<<<<<<<<<<<<< Unaffected part is skipped >>>>>>>>>>>>>>>>>>>>

 id-BeamMeasurementsReportConfiguration,

 id-TAI,

 id-HFCNode-ID-new,

 id-GlobalCable-ID-new,

 id-FiveGProSeLayer2Multipath,

 id-CandidateRelayUEInformationList,

 id-FiveGProSeLayer2UEtoUERelay,

 id-FiveGProSeLayer2UEtoUERemote,

 maxnoofAllowedAreas,

 maxnoofAllowedCAGsperPLMN,

 maxnoofAllowedS-NSSAIs,

 maxnoofBluetoothName,

 maxnoofBPLMNs,

 maxnoofCAGSperCell,

 maxnoofCandidateCells,

 maxnoofCellIDforMDT,

<<<<<<<<<<<<<<<<<<<< Unaffected part is skipped >>>>>>>>>>>>>>>>>>>>

-- F

FailureIndication ::= SEQUENCE {

 uERLFReportContainer UERLFReportContainer,

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

 ...

}

FailureIndication-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

 ...

}

FiveG-ProSeAuthorized ::= SEQUENCE {

 fiveGProSeDirectDiscovery FiveGProSeDirectDiscovery OPTIONAL,

 fiveGProSeDirectCommunication FiveGProSeDirectCommunication OPTIONAL,

 fiveGProSeLayer2UEtoNetworkRelay FiveGProSeLayer2UEtoNetworkRelay OPTIONAL,

 fiveGProSeLayer3UEtoNetworkRelay FiveGProSeLayer3UEtoNetworkRelay OPTIONAL,

 fiveGProSeLayer2RemoteUE FiveGProSeLayer2RemoteUE OPTIONAL,

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

 ...

}

FiveG-ProSeAuthorized-ExtIEs NGAP-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 },

 ...

}

FiveGProSeDirectDiscovery ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveGProSeDirectCommunication ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveGProSeLayer2UEtoNetworkRelay ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveGProSeLayer3UEtoNetworkRelay ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveGProSeLayer2RemoteUE ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveGProSeLayer2Multipath ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveGProSeLayer2UEtoUERelay ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveGProSeLayer2UEtoUERemote ::= ENUMERATED {

 authorized,

 not-authorized,

 ...

}

FiveG-ProSePC5QoSParameters ::= SEQUENCE {

 fiveGProSepc5QoSFlowList FiveGProSePC5QoSFlowList,

 fiveGProSepc5LinkAggregateBitRates BitRate OPTIONAL,

 iE-Extensions ProtocolExtensionContainer { { FiveG-ProSePC5QoSParameters-ExtIEs} } OPTIONAL,

 ...

}

<<<<<<<<<<<<<<<<<<<< Next Change >>>>>>>>>>>>>>>>>>>>

### 9.4.7 Constant Definitions

-- ASN1START

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

--

-- Constant definitions

--

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

NGAP-Constants {

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

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

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

<<<<<<<<<<<<<<<<<<<< Unaffected part is skipped >>>>>>>>>>>>>>>>>>>>

 id-BeamMeasurementsReportConfiguration ProtocolIE-ID ::= 361

 id-HFCNode-ID-new ProtocolIE-ID ::= 362

 id-GlobalCable-ID-new ProtocolIE-ID ::= 363

 id-TargetHomeENB-ID ProtocolIE-ID ::= 364

 id-HashedUEIdentityIndexValue ProtocolIE-ID ::= 365

 id-FiveGProSeLayer2Multipath ProtocolIE-ID ::= x

 id-FiveGProSeLayer2UEtoUERelay ProtocolIE-ID ::= x2

 id-FiveGProSeLayer2UEtoUERemote ProtocolIE-ID ::= x3

 id-CandidateRelayUEInformationList ProtocolIE-ID ::= x1

END

-- ASN1STOP

<<<<<<<<<<<<<<<<<<<< End of Changes >>>>>>>>>>>>>>>>>>>>