**3GPP TSG-CT WG4 Meeting #124C4-243446**

**Maastricht, Netherlands, 19th–23rd August 2024**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | **0119** | **rev** | **1** | **Current version:** |  |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **x** | Radio Access Network |  | Core Network | **x** |

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| ***Title:*** | Correction on the maximum number of devices in one SLPP message | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | Ranging\_SL | | | | |  | ***Date:*** | | | 2024-07-30 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | CT1 group observes that the maximum number of PC5 links for one UE is recommended as 8 as mentioned in TS 24.554 and TS 24.587 since R16. Thus, for ranging service, the minimum number of other UEs (UE2-UEn) delivered by UE1 shall not lower than 7.  TS 24.554:  “NOTE 1: The recommended maximum number of established 5G ProSe direct links is 8.”  TS 24.587:  “NOTE: The recommended maximum number of established NR PC5 unicasts link is 8.”  CT1, based on the length of a Type-6 IE is 65536 octets, evalute the maximum number of SLPP that the UE needs to support from CT1 perspective and agree that the maximum number of other UEs (i.e. UE2-UEn) is 63. That is, the minimum number of other UEs (UE2-UEn) delivered by UE1 shall not higher than 63.  Currently, TS 24.080 specifies the maximum number of other UEs is 3. This CR is proposed to align the ASN.1 codec. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Correct the maximum number of *RangingSLPPInfo* in the *RangingSLPPList* is 63 | | | | | | | | |
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| ***Consequences if not approved:*** | | Different understanding among WGs on the maximum number of devices supported in the SLPP messages leads to a chaotic implementation. | | | | | | | | |
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| ***Clauses affected:*** | | 4.4.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **x** |  | Other core specifications | | | | TS 24.514 CR 0047 | | |
| ***affected:*** | |  | **x** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **x** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* First Change \* \* \* \*

### 4.4.2 ASN.1 data types

This clause provides an ASN.1 module defining the abstract data types in operations and errors specification. Only data types which are specific for this specification are defined. All other data types are imported from MAP together with the import of operations and errors.

***(… text not shown for clarity …)***

SLMTLR-Type::= ENUMERATED {

rangingSidelink (0),

...}

-- exception handling:

-- an unrecognized value shall be rejected by the receiver with a return error cause of

-- unexpected data value.

LCS-SLMTLRArg ::= SEQUENCE {

slmtlr-Type [0] SLMTLR-Type,

supportedGADShapes [1] SupportedGADShapes OPTIONAL,

relatedUEInfo [2] RelatedUEInfo OPTIONAL,

locatedUEselect [3] LocatedUEselect OPTIONAL,

coordinateID [4] CoordinateID OPTIONAL,

...}

-- The parameter slmtlr-Type shall set to value rangingSidelink.

LocatedUEselect ::= ENUMERATED {

targetUESelect (0),

lmfselect (1),

... }

CoordinateID ::= INTEGER (0.. 511)

LCS-SLMTLRRes::= SEQUENCE {

relatedUEInfo [0] RelatedUEInfo,

rangingSLPPList [1] RangingSLPPList OPTIONAL,

... }

RangingSLPPList ::= SEQUENCE (SIZE (1..maxNumSLPPMsg)) OF RangingSLPPInfo

maxNumSLPPMsg INTEGER ::= 63

RangingSLPPInfo ::= SEQUENCE {

sLPPMsg [0] SlPosProtocolPDU,

relatedUE [1] OCTET STRING OPTIONAL }

SlPosProtocolPDU::= OCTET STRING  
-- SlPosProtocol contains a SLPP message defined in 3GPP TS 38.355.

UEBased ::= ENUMERATED {

notcalculatedbyUE (0),

calculatedbyUE (1),

... }

LCS-DLRSPPTransportArg ::= SEQUENCE {

rangingSLPPList [0] RangingSLPPList OPTIONAL,

scheduledLocTime [1] DateTime OPTIONAL,

ueBased [2] UEBased OPTIONAL,

relatedUEInfo [3] RelatedUEInfo OPTIONAL,

...}

LCS-DLRSPPTransportRes::= SEQUENCE {

}

LCS-ULRSPPTransportArg ::= SEQUENCE {

rangingSLPPList [0] RangingSLPPList OPTIONAL,

...}

LCS-ULRSPPTransportRes::= SEQUENCE {

}

.#END

\* \* \* End of Changes \* \* \* \*