

CR-Form-v7

CHANGE REQUEST

⌘ **33.108 CR CRNum** ⌘ rev - ⌘ Current version: **6.4.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Implications of R5 onwards QoS parameters on ASN.1 module in 33.108. R6		
Source:	⌘ SA3-LI (Nokia, Ericsson)		
Work item code:	⌘ SEC1-LI Date: ⌘ 06-02-2004		
Category:	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> ⌘ A Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction 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. </td> <td style="width: 50%; vertical-align: top;"> Release: ⌘ Rel-6 Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) </td> </tr> </table>	⌘ A Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction 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 .	Release: ⌘ Rel-6 Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)
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Reason for change:	⌘ Currently qoslu parameter may have a maximum length of 11 octets. That means, it cannot convey octet 14 (mandatory for R5 onwards QoS), which was introduced to 24.008v5.2.0 as early as December 2001 (CN plenary # 14. NP-010660, CR 458r3, N1-011620). This CR provides for the correct reporting of QoS and makes modifications to the Object ID and version number to achieve backward/forward compatibility. The qoslu and qosGn parameters need to be changed to bold for consistency. qoslu was misleading and was replaced by qosMobileRadio .
Summary of change:	⌘ Involved parameters and data types were modified to accommodate longer QoS IE according to the value defined in TS 24.008v6.2.0 and 29.060v6.2.0. The 3GPP object tree was modified as well, by introducing new branches.
Consequences if not approved:	⌘ Incorrect reporting of the QoS to the LEA.

Clauses affected:	⌘ B2: B.3; B3a; B4																			
Other specs affected:	<table style="width: 100%; border: none;"> <tr> <td style="width: 10%;"></td> <td style="width: 10%; text-align: center;"> <table border="1" style="border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table> </td> <td style="width: 50%;">Other core specifications</td> <td style="width: 10%; text-align: center;">⌘</td> <td style="width: 10%;"></td> </tr> <tr> <td></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Test specifications</td> <td style="text-align: center;">⌘</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>O&M Specifications</td> <td style="text-align: center;">⌘</td> <td></td> </tr> </table>		<table border="1" style="border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications	⌘			<input checked="" type="checkbox"/>	Test specifications	⌘			<input checked="" type="checkbox"/>	O&M Specifications	⌘	
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Other comments:	⌘																			

B.3 Intercept related information (HI2)

Declaration of ROSE operation umts-sending-of-IRI is ROSE delivery mechanism specific. When using FTP delivery mechanism, data UmtsIRIsContent must be considered.

ASN1 description of IRI (HI2 interface)

```
UmtsHI2Operations {itu-t(0) identified-organization(4) etsi(0) securityDomain(2) lawfulIntercept(2)
threeGPP(4) hi2(1) r6(6) version-23(23)}
```

```
DEFINITIONS IMPLICIT TAGS ::=
```

```
BEGIN
```

```
IMPORTS
```

```
OPERATION,
ERROR
```

```
FROM Remote-Operations-Information-Objects
{joint-iso-itu-t(2) remote-operations(4) informationObjects(5) version1(0)}
```

```
LawfulInterceptionIdentifier,
TimeStamp,
Network-Identifier,
National-Parameters,
DataNodeAddress,
IPAddress,
IP-value,
X25Address
```

```
FROM HI2Operations
{itu-t(0) identified-organization(4) etsi(0) securityDomain(2)
lawfulIntercept(2) hi2(1) version3(3)}; -- TS 101 671 Edition 3
```

-- Object Identifier Definitions

```
-- Security DomainId
lawfulInterceptDomainId OBJECT IDENTIFIER ::= {itu-t(0) identified-organization(4) etsi(0)
securityDomain(2) lawfulIntercept(2)}
```

```
-- Security Subdomains
threeGPPSUBDomainId OBJECT IDENTIFIER ::= {lawfulInterceptDomainId threeGPP(4)}
hi2DomainId OBJECT IDENTIFIER ::= {threeGPPSUBDomainId hi2(1) r6(6) version-23(23)}
```

```
umts-sending-of-IRI OPERATION ::=
```

```
{
  ARGUMENT      UmtsIRIsContent
  ERRORS        { OperationErrors }
  CODE          global:{threeGPPSUBDomainId hi2(1) opcode(1)}
}
```

```
-- Class 2 operation . The timer shall be set to a value between 3 s and 240 s.
```

```
-- The timer.default value is 60s.
```

```
-- NOTE: The same note as for HI management operation applies.
```

```

UmtsIRIsContent ::= CHOICE
{
  umtsiRIContent      UmtsIRIContent,
  umtsIRISequence    UmtsIRISequence
}

```

```

UmtsIRISequence ::= SEQUENCE OF UmtsIRIContent

```

```

-- Aggregation of UmtsIRIContent is an optional feature.
-- It may be applied in cases when at a given point in time
-- several IRI records are available for delivery to the same LEA destination.
-- As a general rule, records created at any event shall be sent
-- immediately and not withheld in the DF or MF in order to
-- apply aggregation.
-- When aggregation is not to be applied,
-- UmtsIRIContent needs to be chosen.

```

```

UmtsIRIContent ::= CHOICE
{
  iRI-Begin-record      [1] IRI-Parameters, -- include at least one optional parameter
  iRI-End-record        [2] IRI-Parameters,
  iRI-Continue-record   [3] IRI-Parameters, -- include at least one optional parameter
  iRI-Report-record     [4] IRI-Parameters -- include at least one optional parameter
}

```

```

unknown-version      ERROR ::= { CODE local:0}
missing-parameter    ERROR ::= { CODE local:1}
unknown-parameter-value ERROR ::= { CODE local:2}
unknown-parameter    ERROR ::= { CODE local:3}

```

```

OperationErrors ERROR ::=

```

```

{
  unknown-version |
  missing-parameter |
  unknown-parameter-value |
  unknown-parameter
}

```

```

-- This values may be sent by the LEMF, when an operation or a parameter is misunderstood.

```

```

-- Parameters having the same tag numbers must be identical in Rel-5 and Rel-6 modules.
IRI-Parameters ::= SEQUENCE
{
  hi2DomainId [0] OBJECT IDENTIFIER, -- 3GPP HI2 domain
  iRVersion [23] ENUMERATED
  {
    version2_(2),
    .../
    version3 (3)
  } OPTIONAL,
  -- if not present, it means version 1 is handled
  lawfulInterceptionIdentifier [1] LawfulInterceptionIdentifier,
  -- This identifier is associated to the target.
  timeStamp [3] TimeStamp,
  -- date and time of the event triggering the report.)
  initiator [4] ENUMERATED
  {
    not-Available (0),
    originating-Target (1),
    -- in case of GPRS, this indicates that the PDP context activation
    -- or deactivation is MS requested
    terminating-Target (2),
    -- in case of GPRS, this indicates that the PDP context activation or
    -- deactivation is network initiated
    ...
  } OPTIONAL,

  locationOfTheTarget [8] Location OPTIONAL,
  -- location of the target subscriber
  partyInformation [9] SET SIZE (1..10) OF PartyInformation OPTIONAL,
  -- This parameter provides the concerned party, the identiy(ies) of the party
  --)and all the information provided by the party.

  serviceCenterAddress [13] PartyInformation OPTIONAL,
  -- e.g. in case of SMS message this parameter provides the address of the relevant
  -- server within the calling (if server is originating) or called (if server is
  -- terminating) party address parameters
  sms [14] SMS-report OPTIONAL,
  -- this parameter provides the SMS content and associated information

  national-Parameters [16] National-Parameters OPTIONAL,
  gPRSCorrelationNumber [18] GPRSCorrelationNumber OPTIONAL,
  gPRSevent [20] GPRSevent OPTIONAL,
  -- This information is used to provide particular action of the target
  -- such as attach/detach
  sgsmAddress [21] DataNodeAddress OPTIONAL,
  gPRSOperationErrorCode [22] GPRSOperationErrorCode OPTIONAL,
  qgsnAddress [24] DataNodeAddress OPTIONAL,
  qos [25] UmtsQos OPTIONAL,
  networkIdentifier [26] Network-Identifier OPTIONAL,
  smsOriginatingAddress [27] DataNodeAddress OPTIONAL,
  smsTerminatingAddress [28] DataNodeAddress OPTIONAL,
  imSevent [29] IMSevent OPTIONAL,
  sipMessage [30] OCTET STRING OPTIONAL,
  servingSGSN-number [31] OCTET STRING (SIZE (1..20)) OPTIONAL,
  servingSGSN-address [32] OCTET STRING (SIZE (5..17)) OPTIONAL,
  -- Octets are coded according to 3GPP TS 23.003 [25]
  ...
}
-- Parameters having the same tag numbers must be identical in Rel-5 and Rel-6 modules

```

***** Next modification*****

```

UmtsQos ::= CHOICE
{
  qosMobileRadioqosIu [1] OCTET STRING (SIZE(3..11)),
  -- The qosMobileRadioqosIu parameter shall be coded in accordance with the § 10.5.6.5 of
  -- document ref [9] or ref [21] without the Quality of service
  -- quality of service IE (only the last 3, or 11 octets are used. That
  -- is first two octets carrying 'Quality of service IEI' and 'Length of quality of
  -- service IE' shall be excluded).
  qosGn [2] OCTET STRING (SIZE(3..254))
  -- qosGn parameter shall be coded in accordance with § 7.7.34 of document ref [17]
}

```

***** Next modification*****

B.3a Interception related information (HI2 CS)

For North America the use of J-STD-25 A[23] is recommended.

Declaration of ROSE operation sending-of-IRI is ROSE delivery mechanism specific. When using FTP delivery mechanism, data IRI-Content must be considered.

ASN1 description of IRI (HI2 CS interface)

```
UmtsCS-HI2Operations
{ itu-t (0) identified-organization (4) etsi (0) securityDomain (2) lawfulIntercept (2) threeGPP(4)
hi2CS (3) version-1 (1)}
```

```
DEFINITIONS IMPLICIT TAGS ::=
```

```
BEGIN
```

```
IMPORTS OPERATION,
  ERROR
  FROM Remote-Operations-Information-Objects
  {joint-iso-itu-t (2) remote-operations(4) informationObjects(5) version1(0)}

  LawfulInterceptionIdentifier,
  TimeStamp,
  Intercepted-Call-State,
  PartyInformation,
  CallContentLinkCharacteristics,
  CommunicationIdentifier,
  CC-Link-Identifier,
  National-Parameters

  FROM HI2Operations
  {itu-t(0) identified-organization(4) etsi(0) securityDomain(2)
  lawfulIntercept(2) hi2(1) version3(3)} - Version 3 of TS 101 671 ASN.1

  Location,
  SMS-report

  FROM UmtsHI2Operations
  {itu-t(0) identified-organization(4) etsi(0) securityDomain(2)
  lawfulintercept(2) threeGPP(4) hi2(1) r6(6) version-23(23)};

-- Object Identifier Definitions

-- Security DomainId
lawfulInterceptDomainId OBJECT IDENTIFIER ::= {itu-t(0) identified-organization(4) etsi(0)
securityDomain(2) lawfulIntercept(2)}

-- Security Subdomains
threeGPPSUBDomainId OBJECT IDENTIFIER ::= {lawfulInterceptDomainId threeGPP(4)}
hi2CSDomainId OBJECT IDENTIFIER ::= {threeGPPSUBDomainId hi2CS(3) version-1(1)}
```

***** Next modification*****

B.4 HI3 CC definition

```
Umts-HI3-PS {itu-t(0) identified-organization(4) etsi(0) securityDomain(2) lawfulIntercept(2)
threeGPP(4) hi3(2) r6(6) version-1(1)}
```

```
DEFINITIONS IMPLICIT TAGS ::=
```

```
BEGIN
```

```
IMPORTS
```

```
GPRSCorrelationNumber
```

```
FROM UmtsHI2Operations
```

```
{itu-t(0) identified-organization(4) etsi(0) securityDomain(2) lawfulIntercept(2) threeGPP(4)
```

```
hi2(1) r6(6) version-13(13)} -- from 3GPP UmtsHI2Operations
```

```
LawfulInterceptionIdentifier,
```

```
TimeStamp
```

```
FROM HI2Operations
```

```
{itu-t(0) identified-organization(4) etsi(0) securityDomain(2) lawfulIntercept(2) hi2(1)
```

```
version3(3)}; -- from ETSI HI2Operations TS 101 671 Edition 3
```