

3GPP TSG-SA3 LI Meeting #12  
 Miami, USA, 27 – 29 January 2004

Tdoc # S3LI04\_013r9

CR-Form-v7

## CHANGE REQUEST

⌘ **33.108 CR CRNum** ⌘ rev **-** ⌘ Current version: **5.6.0** ⌘

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

<b>Title:</b>	⌘ Implications of R5 onwards QoS parameters on ASN.1 module in 33.108. R5		
<b>Source:</b>	⌘ SA3-LI (Nokia, Ericsson)		
<b>Work item code:</b>	⌘ SEC1-LI	<b>Date:</b>	⌘ 06-02-2004
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ Rel-5
	Use <u>one</u> of the following categories: <b>F</b> (correction) <b>A</b> (corresponds to a correction in an earlier release) <b>B</b> (addition of feature), <b>C</b> (functional modification of feature) <b>D</b> (editorial modification) Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .		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)

<b>Reason for change:</b>	⌘ Currently <b>qoslu</b> 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 <b>qoslu</b> and <b>qosGn</b> parameters need to be changed to bold for consistency. <b>qoslu</b> was misleading and was replaced by <b>qosMobileRadio</b> .
<b>Summary of change:</b>	⌘ Involved parameters and data types were modified to accommodate longer QoS IE according to the value defined in TS 24.008v5.9.0 and 29.060v5.7.0. The 3GPP object tree was modified as well, by introducing new branches.
<b>Consequences if not approved:</b>	⌘ Incorrect reporting of QoS to the LEA.

<b>Clauses affected:</b>	⌘ B2; B.3						
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
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	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
<b>Other comments:</b>	⌘						



## B.2 3GPP object tree

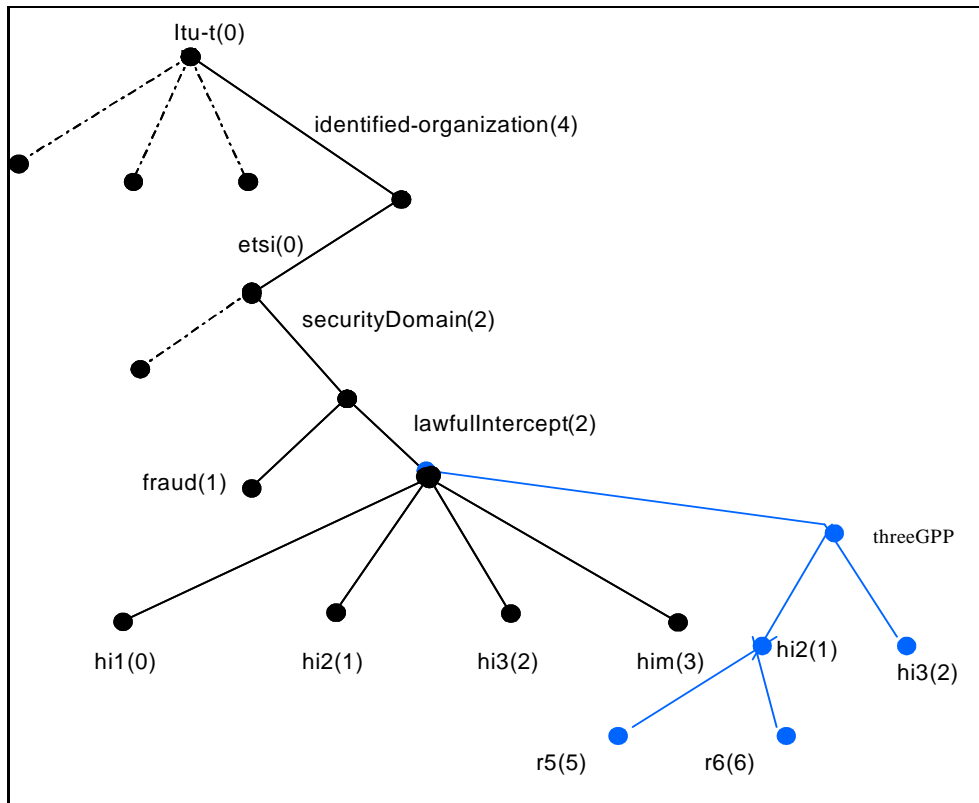


Figure B.1: 3GPP object tree

## 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 `umtsIRIContent` `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) r5(5) version-13(13)}
```

```
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) r5(5) version-13(13)}

```

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

```

{
  ARGUMENT      UmtsIRIContent
  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.

```

**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
  iRIVersion           [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
sgsnAddress            [21] DataNodeAddress OPTIONAL,
gPRSOperationErrorCode [22] GPRSOperationErrorCode OPTIONAL,
ggsnAddress            [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
{
  qoSFu [1] OCTET STRING (SIZE(3..11)),
  -- The qoSFu 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]
}

```