

CR-Form-v7
<b>CHANGE REQUEST</b>
# <b>33.108 CR CRNum</b> # rev - # Current version: <b>6.3.0</b> #

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>	#	CS Section for 33.108 – User data packet transfer	
<b>Source:</b>	#	SA3-LI	
<b>Work item code:</b>	#	SEC-LI	<b>Date:</b> # 19/11/2003
<b>Category:</b>	#	<b>F</b>	<b>Release:</b> # <b>Rel-6</b>
		Use <u>one</u> of the following categories:	Use <u>one</u> of the following releases:
		<b>F</b> (correction)	2 (GSM Phase 2)
		<b>A</b> (corresponds to a correction in an earlier release)	R96 (Release 1996)
		<b>B</b> (addition of feature),	R97 (Release 1997)
		<b>C</b> (functional modification of feature)	R98 (Release 1998)
		<b>D</b> (editorial modification)	R99 (Release 1999)
		Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a> .	Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

<b>Reason for change:</b>	#	The TS101671 Annex D.6 has not been reported into 33.108. This section describes the HI3 type of operation used to convey UUS information. It should be reported for backward compatibility. Moreover in 33.108 Table 5.7 it is stated that for User-to-user signalling 1,2,3: "Optionally, ETSI's HI3 interface for UUS may be maintained for backward compatibility reasons". The bullet for SMS in A.1.2.1 has been removed because it is not any longer valid at this level. SMS may be provided by IRI or User data packet (HI3 interface).
<b>Summary of change:</b>	#	1. TS101671 Annex D.6 is reported in 33.108 as Annex B.6 2. Additions to normative Annex (A.1.2.1 and A.1.2.2).
<b>Consequences if not approved:</b>	#	ETSI's HI3 interface for UUS is maintained for backward compatibility reasons but wouldn't be defined at stage-3 level.

<b>Clauses affected:</b>	#	Annex A.1.2.1; A.1.2.2; Annex B.2; new Annex B.5								
<b>Other specs Affected:</b>	#	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;">X</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;">X</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;">X</td> </tr> </table> Other core specifications # Test specifications # O&M Specifications #	Y	N		X		X		X
Y	N									
	X									
	X									
	X									
<b>Other comments:</b>	#									

# First modified section

## A.1.2.1 Sending part

To request the sending of data to a peer entity, the LI\_Application provides the ASE\_HI, the address of the peer entity, the nature of the data and the data.

On receiving a request of the LI\_Application:

- If the data link toward the peer entity address is active, the ASE\_HI, from the nature of the data provided, encapsulates this data in the relevant RO-Invoke operation.
- If the data link toward the peer entity address isn't active, the ASE\_HI establishes this data link (see annex A.1.2.3). Then, depending on the nature of the data provided, the ASE\_HI encapsulates this data in the relevant RO-Invoke operation.

Depending on the natures of the data provided by the LI\_Application, the ASE\_HI encapsulates this data within the relevant ROSE operation:

- IRI: in this case the data provided by the application are encoded within the class 2 RO-Invoke operation *Umts\_Sending\_of\_IRI*.
- ~~SMS: in this case the data provided by the application are encoded within the class 2 RO-Invoke operation *Umts\_Sending\_of\_IRI*.~~

The following section has been included only for backward compatibility reasons towards ETSI ES 201 671 [24]:

- User packet data transfer (used for data, which can be exchanged via ISUP/DSS1/MAP signalling: e.g. UUS, SMS): in this case the data provided by the application are encoded:
  - either within the class 2 RO-Invoke operation "Circuit-Call-related-services" in case of data associated to a circuit call (e.g. for UUS 1 to 3). The ASN.1 format is described in clause B.5 (HI3 interface);
  - or within the class 2 RO-Invoke operation "No-Circuit-Call-related-services" in case of data not associated with a circuit call (e.g. for SMS). The ASN.1 format is described in clause B.5 (HI3 interface).

Depending on the class of the operation, the ASE\_HI may have to wait for an answer. In this case a timer, depending on the operation, is started on the sending of the operation and stopped on the receipt of an answer (RO\_Result, RO\_Error, RO\_Reject).

On timeout of the timer, the ASE\_HI indicates to the LI\_Application that no answer has been received. It is under the LI\_Application responsibility to send again the data or to inform the administrator of the problem.

On receipt of an answer component (after verification that the component isn't erroneous), the ASE\_HI stop the relevant timer and acts depending on the type of component:

- On receipt of a RO\_Result, the ASE\_HI provide the relevant LI\_Application an indication that the data has been received by the peer LI-application and the possible parameters contained in the RO\_Result.
- On receipt of a RO\_Error, the ASE\_HI provide the relevant LI\_Application an indication that the data hasn't been received by the peer LI-application and the possible "Error cause". The error causes are defined for each operation in the relevant ASN1 script. It is under the LI\_Application responsibility to generate or not an alarm message toward an operator or administrator.
- On receipt of a RO\_Reject\_U/P, the ASE\_HI provide the relevant LI\_Application an indication that the data hasn't been received by the peer LI-application and the "Problem cause". The "problem causes" are defined in [7] to [8]. It is under the LI\_Application responsibility to send again the data or to inform the operator/administrator of the error.

On receipt of an erroneous component, the ASE\_HI acts as described in ITU-T Recommendations [7] to [8].

## A.1.2.2 Receiving part

On receipt of a ROSE operation from the lower layers:

- When receiving operations from the peer entity, the ASE\_HI verifies the syntax of the component and transmits the parameters to the LI-Application. If no error/problem is detected, in accordance with the [7] to [8] standard result (only Class2 operation are defined), the ASE\_HI sends back a RO\_Result which coding is determined by the relevant operation ASN1 script. The different operations which can be received are:
- RO-Invoke operation "Sending-of-IRI" (HI2 interface);
- RO-Invoke operation "No-Circuit-Call-Related-Services" (HI3 interface);
- RO-Invoke operation "Circuit-Call-Related-Services" (HI3 interface).

In case of error, the ASE\_HI acts depending on the reason of the error or problem:

- In accordance with the rules defined by [7] to [8], an RO\_Error is sent in the case of an unsuccessful operation at the application level. The Error cause provided is one among those defined by the ASN1 script of the relevant operation;
- In accordance with the rules defined in [7] to [8], an RO\_Reject\_U/P is sent in the case of an erroneous component. On receipt of an erroneous component, the ASE\_HI acts as described in [7] to [8].

**Next modified section**

B.2 3GPP object tree

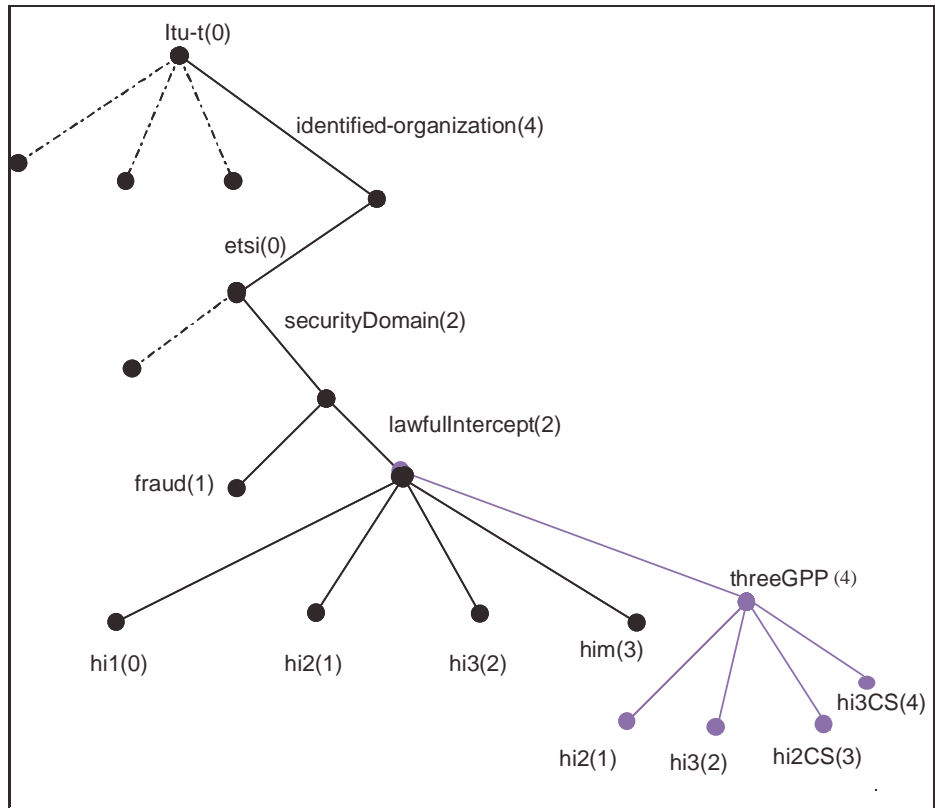


Figure B.1: 3GPP object tree

**Next modified section**

## B.5 User data packet transfer (HI3)

Declaration of ROSE operations circuit-Call-related-Services and no-circuit-Call-related-Services are ROSE delivery mechanism specific. When using FTP delivery mechanism, data Content-Report must be considered.

### ASN.1 description of circuit data transfer operation (HI3 interface)

```
UMTS-HI3CircuitLIOperations
{itu-t(0) identified-organization(4) etsi(0) securityDomain(2) lawfulintercept(2) threeGPP(4)
hi3CS(4) version1(1)}
```

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

```
-- The following operations are used to transmit user data, which can be exchanged via the DSS1,
-- ISUP or MAP signalling (e.g. UUS).
```

```
BEGIN
```

```
IMPORTS OPERATION,
```

```
ERROR
```

```
FROM Remote-Operations-Information-Objects
```

```
{joint-iso-itu-t (2) remote-operations(4) informationObjects(5) version1(0)}
```

```
hi3CircuitLISubDomainId
```

```
FROM
```

```
SecurityDomainDefinitions
```

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

```
LawfulInterceptionIdentifier,
```

```
CommunicationIdentifier,
```

```
TimeStamp,
```

```
OperationErrors,
```

```
Supplementary-Services,
```

```
FROM HI2Operations
```

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

```
lawfulIntercept(2) hi2(1) version3(3)} -- TS 101 671 Edition 3
```

```
SMS-report
```

```
FROM UmtsHI2Operations
```

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

```
threeGPP(4) hi2(1) version-2(2)};
```

```
UMTS-circuit-Call-related-Services OPERATION ::=
```

```
{
```

```
ARGUMENT UMTS-Content-Report
```

```
ERRORS { OperationErrors }
```

```
CODE global:{ hi3CircuitLISubDomainId circuit-Call-Serv (1) version1 (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.
```

```
UMTS-no-Circuit-Call-related-Services OPERATION ::=
```

```
{
```

```
ARGUMENT UMTS-Content-Report
```

```
ERRORS { OperationErrors }
```

```
CODE global:{ hi3CircuitLISubDomainId no-Circuit-Call-Serv (2) version1 (1)}
```

```
}
```

```
-- Class 2 operation. The timer must be set to a value between 10s and 120s.
```

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

```

UMTS-Content-Report ::= SEQUENCE
{
  lawfulInterceptionIdentifier [6] LawfulInterceptionIdentifier OPTIONAL,
  communicationIdentifier [1] CommunicationIdentifier,
  -- Used to uniquely identify an intercepted call: the same as used for the relevant IRI.
  -- Called "callIdentifier" in edition 1 ES 201 671.
  timeStamp [2] TimeStamp,
  initiator [3] ENUMERATED
  {
    originating-party(0),
    terminating-party(1),
    forwarded-to-party(2),
    undefined-party(3),
    ...
  } OPTIONAL,
  content [4] Supplementary-Services OPTIONAL,
  -- UUI are encoded in the format defined for the User-to-user information parameter
  -- of the ISUP protocol (see EN 300 356 [30]). Only one UUI parameter is sent per message.
  sms-report [5] SMS-report OPTIONAL,
  ...
}

```

```

END -- UMTS-HI3CircuitLIOperations

```