Source:	SA WG3 (Security)
Title:	CR to 33.108: CR offering alignment to ETSI TS 101 671 (ReI-6)
Document for:	Approval
Agenda Item:	7.3.3

SA Doc number	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	SA WG3 Doc number	Workitem
SP-040407	33.108	048	-	Rel-6	CR offering alignment to ETSI TS 101 671	F	6.5.0	S3-040311	SEC1-LI

3GPP TSG-SA3 LI Rome, Italy, 14 – 1		ldoc
	CHANGE REQUEST	CR-Form-v7
ж	33.108 CR 048 # rev - # Current version	^a 6.5.0 [#]
For <u>HELP</u> on	sing this form, see bottom of this page or look at the pop-up text ov	er the # symbols.
Proposed change	affects: UICC apps# ME Radio Access Network	Core Network X
Title:	CR offering alignment to ETSI TS 101 671	
Source:	SA WG3 (LI Group)	
Work item code: 8	SEC1-LI Date: # 1	5-04-2004
Category:	Use one of the following categories:Use one of theF (correction)2A (corresponds to a correction in an earlier release)R96B (addition of feature),R97C (functional modification of feature)R98D (editorial modification)R99Detailed explanations of the above categories canRel-4be found in 3GPP TR 21.900.Rel-5	Rel-6 following releases: SM Phase 2) elease 1996) elease 1997) elease 1998) elease 1999) elease 4) elease 5) elease 6)
Reason for chang	 2: # This CR mirrors latest CR to ETSI TS 101 671v2.8.1: CR064r2 (05litd038r2) on Editorial corrections to CS A.3.2.1). Respective corrections should be made to a 33.108. CR066r2 (05litd040r2) on Field separator in subaddr corrections should be made to annex J.2.3.2 of 33.10 misalignment between annex J.2.3.2 in 33.108 and a 671 still remains. However, that is a topic for yet ano Besides, currently 3GPP ASN.1 module imports parameters version3. However, recently ETSI module version was raised change should be reflected in annex B.3 and B.3a. 	subclause 5.2.2.1 of ress. Respective 08. Note that certain annex E.3.2 in 101 other CR. from ETSI module
Summary of char	re: 郑 Aligning 3GPP TS 33.108v6.6.0 with ETSI TS 101 671v2.9.1	
Consequences if not approved:	# Misalignment between harmonized 3GPP and ETSI LI spece	6.
Clauses affected:		
Other specs	# X Other core specifications #	

affected:



X Test specificationsX O&M Specifications

Other comments: ж

5.2.2.1 Control Information for HI2

The main purpose of this information is the unique identification of records related to a target identity, including their unique mapping to the links carrying the Content of Communication. In general, parameters of this category are mandatory, i.e. they have to be provided in any record.

The following items are identified (in brackets: ASN.1 name and reference to the ASN.1 definition or clause B.3a):

- 1) Record type (*IRIContent*, see clause B.3a) IRI-BEGIN, IRI-CONTINUE, IRI-END, IRI-REPORT-record types.
- 2) Version indication (*iRIversion*, see clause B.3a) Identification of the particular version of the HI2 interface specification.
- 3) Communication Identifier (CommunicationIdentifier, see clauses 5.1.2 and B.3a).
- 4) Lawful Interception Identifier (LawfulInterceptionIdentifier, see clauses 5.1.1 and B.3a).
- 5) Date & time (*TimeStamp*, see clause B.3a)
 Date & time of record trigger condition.
 The parameter shall have the capability to indicate whether the time information is given as Local time without time zone, GMT with time zone, or as UTC. Normally, the operator (NO/AN/SP) shall define these options.
- 6) CC Link Identifier (CC-Link-Identifier, see clause 5.1.3 for definition and clause B.3a for ASN.1 definition).

Table 5.3 summarizes the items of HI2 control information. It is mandatory information, except the CID - it may be omitted for non-call related IRI records - and the CCLID. Their format and coding definition is LI specific, i.e. not based on other signalling standards.

Table 5.3: Parameters for LI control information in IRI records (HI2 interface port)

IRI parameters: LI control information							
IRI parameter name	ASN.1 name (used in annex B)						
Type of record	IRIContent						
Version indication	iRIversion						
Lawful Interception IDentifier (LIID)	LawfulInterceptionIdentifier						
Communication IDentifier (CID) - Communication Identity Number (CIN) - Network IDentifier (NID)	CommunicationIdentifier						
Date & time	TimeStamp						
CC Link IDentifier (CCLID) (only used in case of option B)	CC-Link-Identifier						

*** Next Modification ***

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-3(3)}
```

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) version53(53)}; -- Imported from TS 101 671 Edition 3
```

*** 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) version53(53)} -- Imported from 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-3(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)}
hi2CSDomainId OBJECT IDENTIFIER := {threeGPPSUBDomainId hi2CS(3) version-1(1)}
```

*** Next Modification ***

J.2.3.2 Field order and layout

Fields shall be presented into the subaddress in the following order:

Table J.2.3: Fields in the Called Party Subaddress

Order	Field
1	Operator-ID
2	CIN
3	CCLID
4	National Parameters

Table J.2.4: Fields in the Calling Party Subaddress

Order	Field						
1	Lawful Interception Identifier (LIID)						
2	Direction						
3	Service Octets						

<u>Apart from National Parameters, inclusion and format of which is determined by national regulations, Eeach field noted</u> above shall be included, whether empty or not, and a field separator shall separate each field. <u>Each of the Operator-ID</u>, <u>CIN, CCLID, LIID and Direction fields shall end by a field separator</u>.

When <u>sending entity does not have a valid value for either of Operator-ID, CIN, CCLID, LIID or Direction fields, then</u> the field is considered empty and it shall be represented only by its field separatora field is empty, that shall be indicated by two consecutive field separators (including field separator from the previous field). There shall be a field separator after the final field, too.

Bits								Octets
8	7	6	5	4	3	2	1	
	1							
Leng	gth of	called	party	suba	ddress	s cont	ents	2
T	ype c	of suba	ddres	s = us	er spe	ecified	d,	3
		odd/	'even	indica	tor			
0	perat	or-ID 🤅	2)	0	perato	or-ID (D	4
0	perat	or-ID @	Ð	0	perato	or-ID (3	5
Fi	eld se	eparato	or		perato			6
	CCL	.ID 🛈		Fi	eld se	parate	or	7
	CCL	ID ③			CCLI	D 2		8
	CCL	ID (S			CCLI	D ④		9
	CCL	ID 🗇			CCLI	D 6		10
Fi	eld se	eparato	or		CCLI	D ⑧		11
								12
								13
								14
								15
			(see i	note)				16
								17
								18
								19
								20
								21
								22
								23
IOU	E:	Callec	l Party	y Suba	addres	ss are	e reser	ID) of the ved for purposes

The Service Octets as available shall always be mapped into octets 19 to 23 of the Calling Party Subaddress, as appropriate. If one of the parameters TMR, BC or HLC is not available, the octet shall be fill<u>ed</u> with "FF" hex. If Mobile Teleservice Code is not available, octet 23 shall not be transmitted. If Mobile Teleservice Code and Mobile Bearer Service Code are not available, octets 22 and 23 shall not be transmitted.

Table J.2.5 represent called party subaddress and table J.2.6 calling party subaddress with the maximum length of the identifiers.

			Octets					
8	7 6 5 4 3 2 1							
(Called party subaddress identifier							
Leng	Length of called party subaddress contents							2
Ту	pe of	suba	ddres	s = us	er spe	ecified	1,	3
		odd/	even	indica	tor			
Op	perato	or-ID 🤅	2)	0	perato	or-ID (D	4
		or-ID @				or-ID (5
Fie		parato	or	O		or-ID (5	6
	CIN				CIN	-		7
	CIN	-			CIN	-		8
	CIN				CIN	-		9
	CIN	-			CIN	0		10
	CCLI	D 🛈		Fie	eld se	parate	or	11
	CCLI	D 3			CCLI	D @		12
	CCLI				CCLI			13
	CCLI	D			CCLI			14
Fie	eld se	parato	or		CCLI	D ®		15
			see r	note				16
								17
								18
								19
								20
								21
	22 23							
NOTE	(Callec	l Party	/ Suba	addre	ss are	reser	LID) of the ved for
		nation	al use	e, e.g.	for au	uthent	icatior	n purposes.

	Octets						
8 7	001013						
Calling pa	6 arty sub	5 addre	4	3 antifier	2	1	1
						ents	2
Length of calling party subaddress contents Type of subaddress = user specified,							3
odd/even indicator according to the amount							5
of BCD-di			Joruin	g to th	e ann	Juni	
LIID 2	gits		LIID	ω			4
			LIID				5
			LIID				6
LIID ®			LIID				7
			LIID				8
			LIID				9
LIID 00			LIID				10
			LIID				11
LIID 08			LIID				12
			LIID				13
LIID @@			LIID				14
LIID @@			LIID				15
Field sepa	arator		LIID				16
Field sepa			Direc				17
spare			spare				18
ITU-T Red	comme	ndatio			21 TM	R	19
(see note				00 [0	-1	••	
ITU-T Red		ndatio	on Q.S	931 BO	2 [33]		20
octet 3 (se					.[]		
ITU-T Red			on Q.S	931 HL	_C [33	31	21
octet 4 (se					[.1	
Mobile Be			Code	9			22
(see note	4)						
Mobile Te		ce Co	de (s	ee not	e 5)		23
NOTE 1:						n Med	ium
							356 [29]. If
	not av						
NOTE 2:	If avai						
	Capal	oility I	.E. ac	cordin	g to E	N 300	0 403 [30] If
	not av	ailabl	e, the	value	is "Ff	=" he>	ζ.
NOTE 3:							h Layer
	Comp	atibili	ty I.E.	accor	ding t	0	
			3 [30].	If not	availa	able, t	he value is
	"FF" h						
NOTE 4:							vice Code
				300 9			
							e octets 22
				oe trar			
NOTE 5:							Code
	accor						
						e, the	octet 23
	shall r	not be	trans	mittec			

Table J.2.6: Calling Party Subaddress