

**Source:** SA WG3  
**Title:** CR to 33.108: Correction to hi3DomainId definition (Rel-6)  
**Document for:** Approval  
**Agenda Item:** 7.3.3

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The following CR was agreed by SA WG3 by e-mail on 2 September 2004. A missing reference has been noticed and the CR was therefore updated with the correct reference added. This CR is now presented to TSG SA for approval.

TSG SA Doc number	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	LI Group Doc number	Work item
SP-040685	33.108	055	1	Rel-6	Correction to hi3DomainId definition	F	6.6.0	S3LI04_124r8	SEC1-LI

## CHANGE REQUEST

⌘ **33.108 CR 055** ⌘ rev **1** ⌘ Current version: **6.6.0** ⌘

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>	<span>⌘</span> Correction to hi3DomainId definition		
<b>Source:</b>	<span>⌘</span> SA WG3 (LI Group)		
<b>Work item code:</b>	<span>⌘</span> SEC-LI	<b>Date:</b>	<span>⌘</span> 12.07.2004
<b>Category:</b>	<span>⌘</span> <b>F</b>	<b>Release:</b>	<span>⌘</span> Rel-6
	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>	<span>⌘</span> Lately we inserted r5 and r6 nodes into 3GPP module. However, this has not been added to the object identifier definition for hi3DomainId, which now is incorrect.  In some countries additional parameters are needed in CC header. It is proposed to define a <b>National-HI3-ASN1parameters</b> data type for the HI3 module.  Besides, module versions need to be updated.
<b>Summary of change:</b>	<span>⌘</span> CR offers to correct hi3DomainId definition, and to add optional parameter to CC header.
<b>Consequences if not approved:</b>	<span>⌘</span> hi3DomainId object identifier points to a wrong object, which will lead to incorrect implementation.

<b>Clauses affected:</b>	<span>⌘</span> 2, B.4						
<b>Other specs affected:</b>	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">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 <span>⌘</span>	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; text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	X	<input checked="" type="checkbox"/>				
X							
<input checked="" type="checkbox"/>							
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	X	<input checked="" type="checkbox"/>				
X							
<input checked="" type="checkbox"/>							
<b>Other comments:</b>	<span>⌘</span>						

\*\*\*\* first modification \*\*\*\*

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## 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

- [1] ETSI TR 101 331: "Telecommunications security; Lawful Interception (LI); requirements of Law Enforcement Agencies".
- [2] ETSI ES 201 158: "Telecommunications security; Lawful Interception (LI); Requirements for network functions".
- [3] ETSI ETR 330: "Security Techniques Advisory Group (STAG); A guide to legislative and regulatory environment".
- [4] GSM 09.02: "Digital cellular telecommunications system (Phase 2+); Mobile Application Part (MAP) specification".
- [5] ITU-T Recommendation X.680: "Specification of Abstract Syntax Notation One (ASN.1)".
- [6] ITU-T Recommendation X.690: "Specification of basic encoding rules for Abstract Syntax Notation One (ASN.1)".
- [7] ITU-T Recommendation X.880: "Information technology - Remote Operations: Concepts, model and notation".
- [8] ITU-T Recommendation X.882: "Information technology - Remote Operations: OSI realizations - Remote Operations Service Element (ROSE) protocol specification".
- [9] ETSI EN 300 940, GSM 04.08: "Digital cellular communications system (Phase 2+); Mobile radio interface layer 3 specification".
- [10] ETSI TS 101 509: "Digital cellular telecommunications system (Phase 2+); Lawful interception; Stage 2 (GSM 03.33)".
- [11] GSM 03.03: "Digital cellular telecommunications system (Phase 2+); Numbering, addressing and identification".
- [12] GSM 09.60 (ETSI EN 301 347): "Digital cellular telecommunications system (Phase 2+); General Packet Radio Service (GPRS); GPRS tunnelling protocol (GTP) across Gn and Gp Interface".
- [13] STD 9: "File Transfer Protocol (FTP)", October 1985.
- [14] GSM 12.15: "3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Telecommunication Management; Charging & Billing; GSM call and event data for the Packet Switched (PS) domain".
- [15] STD0005: "Internet Protocol".
- [16] STD0007: "Transmission Control Protocol".
- [17] 3GPP TS 29.060: "GPRS Tunnelling Protocol".

- [18] 3GPP TS 33.106: "Lawful Interception Requirements".
- [19] 3GPP TS 33.107: "Lawful Interception Architecture and Functions".
- [20] 3GPP TS 23.107: "QoS Concepts and Architecture".
- [21] 3GPP TS 24.008: "3GPP Technical Specification Group Core Network; Mobile radio interface layer 3 specification".
- [22] ETSI ES 201 671 version 2.1.1: "Handover Interface for the lawful interception of telecommunications traffic".
- [23] J-STD-25-A: "Lawfully Authorized Electronic Surveillance".
- [24] ETSI TS 101 671 version 2.3.1: "Handover Interface for the lawful interception of telecommunications traffic".
- [25] 3GPP TS 23.003: "3rd Generation Partnership Project; Technical Specification Group Core Network; Numbering, addressing, and identification".
- [26] RFC 3261: "SIP: Session Initiation Protocol".
- [27] RFC 1006: "ISO Transport Service on top of the TCP".
- [28] RFC 2126: "ISO Transport Service on top of TCP (ITOT)".
- [29] ITU-T Recommendation Q.763: "Formats and Codes of the ISDN User Part of Signalling System No. 7".
- [30] ETSI EN 300 356 (all parts): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface".
- [31] ETSI EN 300 403-1 (V1.2.2): "Integrated Services Digital Network (ISDN); Digital Subscriber Signalling System No. one (DSS1) protocol; Signalling network layer for circuit-mode basic call control; Part 1: Protocol specification [ITU-T Recommendation Q.931 (1993), modified]".
- [32] ETSI EN 300 286-1: "Integrated Services Digital Network (ISDN); User-to-User Signalling (UUS) supplementary service; Digital Subscriber Signalling System No. one (DSS1) protocol; Part 1: Protocol specification".
- [33] ITU-T Recommendation Q.763: "Signalling System No.7 - ISDN User Part formats and codes".
- [34] ITU-T Recommendation Q.931: "ISDN user-network interface layer 3 specification for basic call control".
- [35] 3GPP TS 29.002: "3rd Generation Partnership Project; Technical Specification Group Core Network; Mobile Application Part (MAP) specification".
- [36] RFC 2806: "URLs for Telephone Calls".
- [37] 3GPP TS 23.032: "3rd Generation Partnership Project; Technical Specification Group Core Network; Universal Geographical Area Description (GAD)".
- [38] 3GPP TR 21.905: "3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Vocabulary for 3GPP Specifications".
- [39] [ISO 3166-1: "Codes for the representation of names of countries and their subdivisions - Part 1: Country codes"](#).

**\*\*\* 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-2±(2±)}
```

```
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-3(3)} -- from 3GPP UmtsHI2Operations
```

```
LawfulInterceptionIdentifier,
```

```
TimeStamp
```

```
FROM HI2Operations
```

```
{itu-t(0) identified-organization(4) etsi(0) securityDomain(2) lawfulIntercept(2) hi2(1)
version53(53)}; -- from ETSI HI2Operations TS 101 671v2.9.1-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)}
```

```
hi3DomainId OBJECT IDENTIFIER ::= {threeGPPSUBDomainId hi3-(2) r6(6) version-2±(2±)}
```

```
CC-PDU ::= SEQUENCE
```

```
{
  uLIC-header      [1] ULIC-header,
  payload          [2] OCTET STRING
}
```

```
ULIC-header ::= SEQUENCE
```

```
{
  hi3DomainId      [0] OBJECT IDENTIFIER, -- 3GPP HI3 Domain
  version          [1] Version,
  lIID             [2] LawfulInterceptionIdentifier OPTIONAL,
  correlation-Number [3] GPRSCorrelationNumber,
  timeStamp        [4] TimeStamp OPTIONAL,
  sequence-number  [5] INTEGER (0..65535),
  t-PDU-direction [6] TPDU-direction,
  ...
  national-HI3-ASN1parameters [7] National-HI3-ASN1parameters OPTIONAL
  -- encoded per national requirements
}
```

```
Version ::= ENUMERATED
```

```
{
  version1(1),
  ...
}
```

```
TPDU-direction ::= ENUMERATED
```

```
{
  from-target      (1),
  to-target        (2),
  unknown          (3)
}
```

```
. . .
```

```
National-HI3-ASN1parameters ::= SEQUENCE
```

```
{  
  countryCode [1] PrintableString (SIZE (2)),  
  -- Country Code according to ISO 3166-1 [39],  
  -- the country to which the parameters inserted after the extension marker apply  
  ...  
  -- In case a given country wants to use additional national parameters according to its law,  
  -- these national parameters should be defined using the ASN.1 syntax and added after the  
  -- extension marker (...).  
  -- It is recommended that "version parameter" and "vendor identification parameter" are  
  -- included in the national parameters definition. Vendor identifications can be  
  -- retrieved from IANA web site.  
}
```

. . .

END-- OF Umts-HI3-PS