

**TSG-RAN Meeting #15**  
**Cheju, Korea, 5 - 8 March 2002**

**TSGRP#15(02) 0184**

**Title:** Agreed CRs to TS 25.413

**Source:** TSG-RAN WG3

**Agenda item:** 7.3.3/7.3.4

RP_Num	Tdoc_Num	Specification	CR_Num	Revision Num	3G_Release	CR_Subject	CR_Category	Cur_Ver_Num	Workitem
RP-020184	R3-020731	25.413	434	2	R99	Inclusion of "Age of Location IE into LOCATION REPORT"	F	3.8.0	TEI
RP-020184	R3-020899	25.413	435	3	Rel-4	Inclusion of "Age of Location IE into LOCATION REPORT"	A	4.3.0	TEI

## CHANGE REQUEST

⌘ **25.413 CR 434** ⌘ rev **2** ⌘ Current version: **3.8.0** ⌘

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

**Proposed change affects:** ⌘ (U)SIM  ME/UE  Radio Access Network  Core Network

<b>Title:</b>	⌘ Inclusion of <i>Last Know Service Area</i> IE group into LOCATION REPORT		
<b>Source:</b>	⌘ R-WG3		
<b>Work item code:</b>	⌘ TEI	<b>Date:</b>	⌘ 20 February 2002
<b>Category:</b>	⌘ <b>F</b>	<b>Release:</b>	⌘ R99
	<p>Use <u>one</u> of the following categories:</p> <p><b>F</b> (correction)</p> <p><b>A</b> (corresponds to a correction in an earlier release)</p> <p><b>B</b> (addition of feature),</p> <p><b>C</b> (functional modification of feature)</p> <p><b>D</b> (editorial modification)</p> <p>Detailed explanations of the above categories can be found in 3GPP <a href="#">TR 21.900</a>.</p>		<p>Use <u>one</u> of the following releases:</p> <p>2 (GSM Phase 2)</p> <p>R96 (Release 1996)</p> <p>R97 (Release 1997)</p> <p>R98 (Release 1998)</p> <p>R99 (Release 1999)</p> <p>REL-4 (Release 4)</p> <p>REL-5 (Release 5)</p>

<b>Reason for change:</b>	⌘
<b>Summary of change:</b>	<p>⌘ Inclusion of Last Know Service Area IE group into LOCATION REPORT with suitable behaviour and cause value when the LOCATION REPORT message is sent as an answer to a request for a direct report of Service Area and the current Service Area can not be determined by the RNC.</p> <p>Procedure text, tabular format section and ASN.1 are therefore update accordingly.</p> <p>Impact Analysis: Impact assessment towards the previous version of the specification (same release):</p> <p>This CR has isolated impact with the previous version of the specification (same release) because the way of handling one particular case - when the LOCATION REPORT message is sent as an answer to a request for a direct report of Service Area and the current Service Area can not be determined by the RNC - has been changed. This would not affect implementations behaving like indicated in the CR, would affect implementations supporting the corrected functionality otherwise.</p> <p>The CR has an impact under protocol &amp; functional point of view.</p> <p>The impact can be considered isolated because the change affects the Location reporting function and because the inclusion of the <i>Last Know Service Area IE</i> group into LOCATION REPORT is optional.</p>
<b>Consequences if not approved:</b>	⌘

**Clauses affected:** ⌘ 8.20.2, 9.1.30, 9.2.3.xx, 9.3.3, 9.3.4 and 9.3.6

<b>Other specs</b>	⌘ <input checked="" type="checkbox"/>	Other core specifications	⌘ TS 23.171 R99, TS 23.271 R4/R5, TS 23.060 R99/R4/R5 and mirror CR against TS 25.413 R4
<b>affected:</b>	<input type="checkbox"/>	Test specifications	
	<input type="checkbox"/>	O&M Specifications	
<b>Other comments:</b>	⌘		

### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: [http://www.3gpp.org/3G\\_Specs/CRs.htm](http://www.3gpp.org/3G_Specs/CRs.htm). Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

## 8.19 Location Reporting Control

### 8.19.1 General

The purpose of the Location Reporting Control procedure is to allow the CN to request information on the location of a given UE. The procedure uses connection oriented signalling.

### 8.19.2 Successful Operation



**Figure 1: Location Reporting Control procedure. Successful operation.**

The CN shall initiate the procedure by generating a LOCATION REPORTING CONTROL message.

The *Request Type* IE shall indicate to the serving RNC whether:

- to report directly;
- to report upon change of Service area, or
- to stop reporting at change of Service Area.

If reporting upon change of Service Area is requested, the Serving RNC shall report whenever the UE moves between Service Areas. For this procedure, only Service Areas that are defined for the PS and CS domains shall be considered.

The *Request Type* IE shall also indicate what type of location information the serving RNC shall report. The location information is either of the following types:

- Service Area Identifier, or
- Geographical area, including geographical coordinates with or without requested accuracy.

A request for a direct report can be done in parallel with having an active request to report upon change of Service Area for the same UE. The request to report upon change of Service Area shall not be affected by this.

#### **Interaction with Relocation:**

The order to perform location reporting at change of Service Area is lost in UTRAN at successful Relocation of SRNS. If the location reporting at change of Service Area shall continue also after the relocation has been performed, the Location Reporting Control procedure shall thus be re-initiated from the CN towards the future SRNC after the Relocation Resource Allocation procedure has been executed successfully.

### 8.19.3 Abnormal Conditions

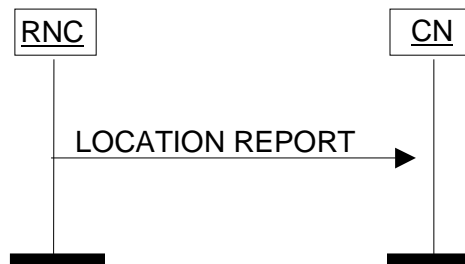
Not applicable.

## 8.20 Location Report

### 8.20.1 General

The purpose of the Location Report procedure is to provide the UE's location information to the CN. The procedure uses connection oriented signalling.

## 8.20.2 Successful Operation



**Figure 2: Location Report procedure. Successful operation.**

The serving RNC shall initiate the procedure by generating a LOCATION REPORT message. The LOCATION REPORT message may be used as a response for the LOCATION REPORTING CONTROL message. Also, when a user enters or leaves a classified zone set by O&M, e.g. zone where a disaster occurred, a LOCATION REPORT message shall be sent to the CN including the Service Area of the UE in the *Area Identity* IE. The *Cause* IE shall indicate the appropriate cause value to CN, e.g. "User Restriction Start Indication" and "User Restriction End Indication". The CN shall react to the LOCATION REPORT message with CN vendor specific actions.

For this procedure, only Service Areas that are defined for the PS and CS domains shall be considered.

In case reporting at change of Service Area is requested by the CN, then the RNC shall issue a LOCATION REPORT message

- whenever the information given in the previous LOCATION REPORT message or INITIAL UE MESSAGE message is not anymore valid.
- upon receipt of the first LOCATION REPORTING CONTROL message following a Relocation Resource Allocation procedure, with *Request Type* IE set to "Change of Service Area", as soon as SAI becomes available in the new SRNC and the relocation procedure has been successfully completed.

In the case when Service Area is reported, the RNC shall include to the LOCATION REPORT message in the *Area Identity* IE the Service Area, which includes at least one of the cells from which the UE is consuming radio resources.

In the case when the LOCATION REPORT message is sent as an answer to a request for a direct report or at a change of Service Area, the *Request Type* IE from the LOCATION REPORTING CONTROL message shall be included.

If the LOCATION REPORT message is sent as an answer to a request for a direct report of Service Area and the current Service Area can not be determined by the RNC, then the *Area Identity* IE shall be omitted and a cause value shall be included to indicate that the request could not be fulfilled, e.g. "Requested Information Not Available". The RNC may also include the *Last Known Service Area* IE.

If the RNC can not deliver the location information as requested by the CN, due to either the non-support of the requested event or the non-support of the request Report Area, the RNC shall indicate the UE location to be "Undetermined" by omitting the *Area Identity* IE. A cause value shall instead be added to indicate the reason for the undetermined location, e.g. "Requested Request Type not supported".

If the Location Report procedure was triggered by a LOCATION REPORTING CONTROL message, which included a request to report a geographical area with a specific accuracy, the LOCATION REPORT message shall include the *Geographical Area* IE within the *Area Identity* IE containing either a point with indicated uncertainty or a polygon, which both shall fulfill the requested accuracy as accurately as possible. If, on the other hand, no specific accuracy level was requested in the LOCATION REPORTING CONTROL message, it is up to UTRAN to decide with which accuracy to report.

## 8.20.3 Abnormal Conditions

Not applicable.

## 9.1.29 LOCATION REPORTING CONTROL

This message is sent by the CN to initiate, modify or stop location reporting from the RNC to the CN.

Direction: CN → RNC.

Signalling bearer mode: Connection oriented.

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.1		YES	ignore
Request Type	M		9.2.1.16		YES	ignore

## 9.1.30 LOCATION REPORT

This message is sent by the RNC to the CN with information about the UE location.

Direction: RNC → CN.

Signalling bearer mode: Connection oriented.

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.1		YES	ignore
Area Identity	O		9.2.3.10		YES	ignore
Cause	O		9.2.1.4		YES	ignore
Request Type	O		9.2.1.16		YES	ignore
<a href="#">Last Known Service Area</a>	<a href="#">O</a>		<a href="#">9.2.3.xx</a>		<a href="#">YES</a>	<a href="#">ignore</a>

### 9.2.3.18 NAS Synchronisation Indicator

This information element contains transparent NAS information that is transferred without interpretation in the RNC.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
NAS Synchronisation Indicator	M		BIT STRING (4)	

### 9.2.3.xx Last Known Service Area

This information element is used for indicating the last known Service Area and the elapsed time since the UE was known to be in this Service Area. The last known Service Area is reported when the current Service Area is unknown to the RNC.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Last Known Service Area</u>				
<u>&gt;SAI</u>	<u>M</u>		<u>9.2.3.9</u>	
<u>&gt;Age of SAI</u>	<u>M</u>		<u>INTEGER (0..32767)</u>	<u>The value represents the elapsed time in minutes since the reported last known SAI was stored by the RNC. Value "0" shall not be used. Value "32767" indicates that the age of SAI is at least 32767 minutes old.</u>

### 9.3.3 PDU Definitions

```

-- *****
--
-- PDU definitions for RANAP.
--
-- *****

RANAP-PDU-Contents {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) ranap (0) version1 (1) ranap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
    DataVolumeReference,
    AreaIdentity,
    CN-DomainIndicator,
    Cause,
    CriticalityDiagnostics,
    ChosenEncryptionAlgorithm,
    ChosenIntegrityProtectionAlgorithm,
    ClassmarkInformation2,
    ClassmarkInformation3,
    DL-GTP-PDU-SequenceNumber,
    DL-N-PDU-SequenceNumber,
    DataVolumeReportingIndication,
    DRX-CycleLengthCoefficient,
    EncryptionInformation,
    GlobalRNC-ID,
    IntegrityProtectionInformation,
    IuSignallingConnectionIdentifier,
    IuTransportAssociation,
    KeyStatus,
    L3-Information,
    LAI,
    LastKnownServiceArea,
    NAS-PDU,
    NAS-SynchronisationIndicator,
    NonSearchingIndication,
    NumberOfSteps,
    OMC-ID,
    OldBSS-ToNewBSS-Information,
    PagingAreaID,
    PagingCause,
    PDP-TypeInformation,
    PermanentNAS-UE-ID,
    RAB-ID,
    RAB-Parameters,
    RAC,
    RelocationType,
    RequestType,
    SAI,
    SAPI,
    Service-Handover,
    SourceID,
    SourceRNC-ToTargetRNC-TransparentContainer,
    TargetID,
    TargetRNC-ToSourceRNC-TransparentContainer,
    TemporaryUE-ID,
    TraceReference,
    TraceType,
    UnsuccessfullyTransmittedDataVolume,
    TransportLayerAddress,
    TriggerID,
    UE-ID,
    UL-GTP-PDU-SequenceNumber,
    UL-N-PDU-SequenceNumber,
    UP-ModeVersions,

```



UserPlaneMode  
FROM RANAP-IEs

PrivateIE-Container {},  
ProtocolExtensionContainer {},  
ProtocolIE-ContainerList {},  
ProtocolIE-ContainerPair {},  
ProtocolIE-ContainerPairList {},  
ProtocolIE-Container {},  
RANAP-PRIVATE-IES,  
RANAP-PROTOCOL-EXTENSION,  
RANAP-PROTOCOL-IES,  
RANAP-PROTOCOL-IES-PAIR  
FROM RANAP-Containers

maxNrOfDTs,  
maxNrOfErrors,  
maxNrOfIuSigConIds,  
maxNrOfRABs,  
maxNrOfVol,

id-AreaIdentity,  
id-CN-DomainIndicator,  
id-Cause,  
id-ChosenEncryptionAlgorithm,  
id-ChosenIntegrityProtectionAlgorithm,  
id-ClassmarkInformation2,  
id-ClassmarkInformation3,  
id-CriticalityDiagnostics,  
id-DRX-CycleLengthCoefficient,  
id-DirectTransferInformationItem-RANAP-RelocInf,  
id-DirectTransferInformationList-RANAP-RelocInf,  
id-DL-GTP-PDU-SequenceNumber,  
id-EncryptionInformation,  
id-GlobalRNC-ID,  
id-IntegrityProtectionInformation,  
id-IuSigConId,  
id-IuSigConIdItem,  
id-IuSigConIdList,  
id-IuTransportAssociation,  
id-KeyStatus,  
id-L3-Information,  
id-LAI,  
id-LastKnownServiceArea,  
id-NAS-PDU,  
id-NonSearchingIndication,  
id-NumberOfSteps,  
id-OMC-ID,  
id-OldBSS-ToNewBSS-Information,  
id-PagingAreaID,  
id-PagingCause,  
id-PermanentNAS-UE-ID,  
id-RAB-ContextItem,  
id-RAB-ContextList,  
id-RAB-ContextFailedtoTransferItem,  
id-RAB-ContextFailedtoTransferList,  
id-RAB-ContextItem-RANAP-RelocInf,  
id-RAB-ContextList-RANAP-RelocInf,  
id-RAB-DataForwardingItem,  
id-RAB-DataForwardingItem-SRNS-CtxReq,  
id-RAB-DataForwardingList,  
id-RAB-DataForwardingList-SRNS-CtxReq,  
id-RAB-DataVolumeReportItem,  
id-RAB-DataVolumeReportList,  
id-RAB-DataVolumeReportRequestItem,  
id-RAB-DataVolumeReportRequestList,  
id-RAB-FailedItem,  
id-RAB-FailedList,  
id-RAB-FailedtoReportItem,  
id-RAB-FailedtoReportList,  
id-RAB-ID,  
id-RAB-QueuedItem,  
id-RAB-QueuedList,  
id-RAB-ReleaseFailedList,  
id-RAB-ReleaseItem,  
id-RAB-ReleasedItem-IuRelComp,  
id-RAB-ReleaseList,

```

id-RAB-ReleasedItem,
id-RAB-ReleasedList,
id-RAB-ReleasedList-IuRelComp,
id-RAB-RelocationReleaseItem,
id-RAB-RelocationReleaseList,
id-RAB-SetupItem-RelocReq,
id-RAB-SetupItem-RelocReqAck,
id-RAB-SetupList-RelocReq,
id-RAB-SetupList-RelocReqAck,
id-RAB-SetupOrModifiedItem,
id-RAB-SetupOrModifiedList,
id-RAB-SetupOrModifyItem,
id-RAB-SetupOrModifyList,
id-RAC,
id-RelocationType,
id-RequestType,
id-SAI,
id-SAPI,
id-SourceID,
id-SourceRNC-ToTargetRNC-TransparentContainer,
id-TargetID,
id-TargetRNC-ToSourceRNC-TransparentContainer,
id-TemporaryUE-ID,
id-TraceReference,
id-TraceType,
id-TransportLayerAddress,
id-TriggerID,
id-UE-ID,
id-UL-GTP-PDU-SequenceNumber
FROM RANAP-Constants;

```

Lots of unaffected ASN1 in 9.3.3 not shown

```

-- *****
--
-- LOCATION REPORT ELEMENTARY PROCEDURE
--
-- *****

-- *****
--
-- Location Report
--
-- *****

LocationReport ::= SEQUENCE {
    protocolIEs      ProtocolIE-Container      { {LocationReportIEs} },
    protocolExtensions  ProtocolExtensionContainer { {LocationReportExtensions} }
    OPTIONAL,
    ...
}

LocationReportIEs RANAP-PROTOCOL-IES ::= {
    { ID id-AreaIdentity      CRITICALITY ignore  TYPE AreaIdentity      PRESENCE optional } |
    { ID id-Cause             CRITICALITY ignore  TYPE Cause                PRESENCE optional } |
    { ID id-RequestType       CRITICALITY ignore  TYPE RequestType          PRESENCE optional } ,
    ...
}

LocationReportExtensions RANAP-PROTOCOL-EXTENSION ::= {
{ ID id-LastKnownServiceArea CRITICALITY ignore EXTENSION LastKnownServiceArea PRESENCE
optional},
    ...
}

```

Lots of unaffected ASN1 in 9.3.3 not shown

### 9.3.4 Information Element Definitions

```
-- *****
--
-- Information Element Definitions
--
-- *****
```

```
RANAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) ranap (0) version1 (1) ranap-IEs (2) }
```

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

Lots of unaffected ASN1 in 9.3.4 not shown

-- L

LAC ::= OCTET STRING (SIZE (2))

```
LAI ::= SEQUENCE {
    PLMNidentity          PLMNidentity,
    LAC                   LAC,
    iE-Extensions        ProtocolExtensionContainer { {LAI-ExtIEs} } OPTIONAL
}
```

```
LAI-ExtIEs RANAP-PROTOCOL-EXTENSION ::= {
    ...
}
```

```
LastKnownServiceArea ::= SEQUENCE {
    sAI          SAI,
    ageOfSAI    INTEGER (0..32767),
    ...
}
```

L3-Information ::= OCTET STRING

-- M

Lots of unaffected ASN1 in 9.3.4 not shown

### 9.3.6 Constant Definitions

```
-- *****
--
-- Constant definitions
--
-- *****

RANAP-Constants {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) ranap (0) version1 (1) ranap-Constants (4) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN
```

Lots of unaffected ASN1 in 9.3.6 not shown

```
-- *****
--
-- IEs
--
-- *****

id-AreaIdentity                INTEGER ::= 0
id-CN-DomainIndicator          INTEGER ::= 3
id-Cause                       INTEGER ::= 4
id-ChosenEncryptionAlgorithm   INTEGER ::= 5
id-ChosenIntegrityProtectionAlgorithm INTEGER ::= 6
id-ClassmarkInformation2       INTEGER ::= 7
id-ClassmarkInformation3       INTEGER ::= 8
id-CriticalityDiagnostics      INTEGER ::= 9
id-DL-GTP-PDU-SequenceNumber   INTEGER ::= 10
id-EncryptionInformation       INTEGER ::= 11
id-IntegrityProtectionInformation INTEGER ::= 12
id-IuTransportAssociation      INTEGER ::= 13
id-L3-Information              INTEGER ::= 14
id-LAI                          INTEGER ::= 15
id-NAS-PDU                     INTEGER ::= 16
id-NonSearchingIndication      INTEGER ::= 17
id-NumberOfSteps               INTEGER ::= 18
id-OMC-ID                      INTEGER ::= 19
id-OldBSS-ToNewBSS-Information INTEGER ::= 20
id-PagingAreaID                INTEGER ::= 21
id-PagingCause                 INTEGER ::= 22
id-PermanentNAS-UE-ID          INTEGER ::= 23
id-RAB-ContextItem             INTEGER ::= 24
id-RAB-ContextList             INTEGER ::= 25
id-RAB-DataForwardingItem      INTEGER ::= 26
id-RAB-DataForwardingItem-SRNS-CtxReq INTEGER ::= 27
id-RAB-DataForwardingList      INTEGER ::= 28
id-RAB-DataForwardingList-SRNS-CtxReq INTEGER ::= 29
id-RAB-DataVolumeReportItem    INTEGER ::= 30
id-RAB-DataVolumeReportList    INTEGER ::= 31
id-RAB-DataVolumeReportRequestItem INTEGER ::= 32
id-RAB-DataVolumeReportRequestList INTEGER ::= 33
id-RAB-FailedItem              INTEGER ::= 34
id-RAB-FailedList              INTEGER ::= 35
id-RAB-ID                      INTEGER ::= 36
id-RAB-QueuedItem              INTEGER ::= 37
id-RAB-QueuedList              INTEGER ::= 38
id-RAB-ReleaseFailedList       INTEGER ::= 39
id-RAB-ReleaseItem             INTEGER ::= 40
id-RAB-ReleaseList             INTEGER ::= 41
id-RAB-ReleasedItem            INTEGER ::= 42
id-RAB-ReleasedList            INTEGER ::= 43
id-RAB-ReleasedList-IuRelComp  INTEGER ::= 44
id-RAB-RelocationReleaseItem    INTEGER ::= 45
id-RAB-RelocationReleaseList   INTEGER ::= 46
id-RAB-SetupItem-RelocReq      INTEGER ::= 47
id-RAB-SetupItem-RelocReqAck   INTEGER ::= 48
id-RAB-SetupList-RelocReq      INTEGER ::= 49
id-RAB-SetupList-RelocReqAck   INTEGER ::= 50
id-RAB-SetupOrModifiedItem     INTEGER ::= 51
id-RAB-SetupOrModifiedList     INTEGER ::= 52
id-RAB-SetupOrModifyItem       INTEGER ::= 53
```

id-RAB-SetupOrModifyList	INTEGER ::= 54
id-RAC	INTEGER ::= 55
id-RelocationType	INTEGER ::= 56
id-RequestType	INTEGER ::= 57
id-SAI	INTEGER ::= 58
id-SAPI	INTEGER ::= 59
id-SourceID	INTEGER ::= 60
id-SourceRNC-ToTargetRNC-TransparentContainer	INTEGER ::= 61
id-TargetID	INTEGER ::= 62
id-TargetRNC-ToSourceRNC-TransparentContainer	INTEGER ::= 63
id-TemporaryUE-ID	INTEGER ::= 64
id-TraceReference	INTEGER ::= 65
id-TraceType	INTEGER ::= 66
id-TransportLayerAddress	INTEGER ::= 67
id-TriggerID	INTEGER ::= 68
id-UE-ID	INTEGER ::= 69
id-UL-GTP-PDU-SequenceNumber	INTEGER ::= 70
id-RAB-FailedtoReportItem	INTEGER ::= 71
id-RAB-FailedtoReportList	INTEGER ::= 72
id-KeyStatus	INTEGER ::= 75
id-DRX-CycleLengthCoefficient	INTEGER ::= 76
id-IuSigConIdList	INTEGER ::= 77
id-IuSigConIdItem	INTEGER ::= 78
id-IuSigConId	INTEGER ::= 79
id-DirectTransferInformationItem-RANAP-RelocInf	INTEGER ::= 80
id-DirectTransferInformationList-RANAP-RelocInf	INTEGER ::= 81
id-RAB-ContextItem-RANAP-RelocInf	INTEGER ::= 82
id-RAB-ContextList-RANAP-RelocInf	INTEGER ::= 83
id-RAB-ContextFailedtoTransferItem	INTEGER ::= 84
id-RAB-ContextFailedtoTransferList	INTEGER ::= 85
id-GlobalRNC-ID	INTEGER ::= 86
id-RAB-ReleasedItem-IuRelComp	INTEGER ::= 87
id-MessageStructure	INTEGER ::= 88
id-TypeOfError	INTEGER ::= 93
<u>id-LastKnownServiceArea</u>	<u>INTEGER ::= x1</u>

END

## CHANGE REQUEST

⌘ **25.413 CR 435** ⌘ rev **3** ⌘ Current version: **4.3.0** ⌘

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

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<b>Work item code:</b>	⌘ TEI	<b>Date:</b>	⌘ 20 February 2002
<b>Category:</b>	⌘ <b>A</b>	<b>Release:</b>	⌘ REL-4
	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)

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<b>Summary of change:</b>	⌘ Inclusion of Last Know Service Area IE group into LOCATION REPORT with suitable behaviour and cause value when the LOCATION REPORT message is sent as an answer to a request for a direct report of Service Area and the current Service Area can not be determined by the RNC.  Procedure text, tabular format section and ASN.1 are therefore update accordingly.  Impact Analysis: Impact assessment towards the previous version of the specification (same release):  This CR has isolated impact with the previous version of the specification (same release) because the way of handling one particular case - when the LOCATION REPORT message is sent as an answer to a request for a direct report of Service Area and the current Service Area can not be determined by the RNC - has been changed. This would not affect implementations behaving like indicated in the CR, would affect implementations supporting the corrected functionality otherwise.  The CR has an impact under protocol & functional point of view.  The impact can be considered isolated because the change affects the Location reporting function and because the inclusion of the <i>Last Know Service Area IE</i> group into LOCATION REPORT is optional.
<b>Consequences if not approved:</b>	⌘

**Clauses affected:** ⌘ 8.20.2, 9.1.30, 9.2.3.xx, 9.3.3, 9.3.4 and 9.3.6

<b>Other specs</b>	⌘	<input checked="" type="checkbox"/>	Other core specifications	⌘	TS 25.305 R99, TS 23.271 R4 and R5, TS 23.060 R4 and R5
<b>affected:</b>		<input type="checkbox"/>	Test specifications		
		<input type="checkbox"/>	O&M Specifications		
<b>Other comments:</b>	⌘				

### How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: [http://www.3gpp.org/3G\\_Specs/CRs.htm](http://www.3gpp.org/3G_Specs/CRs.htm). Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

## 8.19 Location Reporting Control

### 8.19.1 General

The purpose of the Location Reporting Control procedure is to allow the CN to request information on the location of a given UE. The procedure uses connection oriented signalling.

### 8.19.2 Successful Operation



**Figure 1: Location Reporting Control procedure. Successful operation.**

The CN shall initiate the procedure by generating a LOCATION REPORTING CONTROL message.

The *Request Type* IE shall indicate to the serving RNC whether:

- to report directly;
- to stop a direct report;
- to report upon change of Service area, or
- to stop reporting at change of Service Area.

If reporting upon change of Service Area is requested, the Serving RNC shall report whenever the UE moves between Service Areas. For this procedure, only Service Areas that are defined for the PS and CS domains shall be considered.

The *Request Type* IE shall also indicate what type of location information the serving RNC shall report. The location information is either of the following types:

- Service Area Identifier, or
- Geographical area, including geographical coordinates with or without requested accuracy, response time, priority and the client type.

A request for a direct report can be done in parallel with having an active request to report upon change of Service Area for the same UE. The request to report upon change of Service Area shall not be affected by this.

#### **Interaction with Relocation:**

The order to perform location reporting at change of Service Area is lost in UTRAN at successful Relocation of SRNS. If the location reporting at change of Service Area shall continue also after the relocation has been performed, the Location Reporting Control procedure shall thus be re-initiated from the CN towards the future SRNC after the Relocation Resource Allocation procedure has been executed successfully.

### 8.19.3 Abnormal Conditions

Not applicable.



## 8.20 Location Report

### 8.20.1 General

The purpose of the Location Report procedure is to provide the UE's location information to the CN. The procedure uses connection oriented signalling.

### 8.20.2 Successful Operation



**Figure 2: Location Report procedure. Successful operation.**

The serving RNC shall initiate the procedure by generating a LOCATION REPORT message. The LOCATION REPORT message may be used as a response for the LOCATION REPORTING CONTROL message. Also, when a user enters or leaves a classified zone set by O&M, e.g. zone where a disaster occurred, a LOCATION REPORT message shall be sent to the CN including the Service Area of the UE in the *Area Identity* IE. The *Cause* IE shall indicate the appropriate cause value to CN, e.g. "User Restriction Start Indication" and "User Restriction End Indication". The CN shall react to the LOCATION REPORT message with CN vendor specific actions.

For this procedure, only Service Areas that are defined for the PS and CS domains shall be considered.

In case reporting at change of Service Area is requested by the CN, then the RNC shall issue a LOCATION REPORT message

- whenever the information given in the previous LOCATION REPORT message or INITIAL UE MESSAGE message is not anymore valid.
- upon receipt of the first LOCATION REPORTING CONTROL message following a Relocation Resource Allocation procedure, with *Request Type* IE set to "Change of Service Area", as soon as SAI becomes available in the new SRNC and the relocation procedure has been successfully completed.

In the case when Service Area is reported, the RNC shall include to the LOCATION REPORT message in the *Area Identity* IE the Service Area, which includes at least one of the cells from which the UE is consuming radio resources.

In the case when the LOCATION REPORT message is sent as an answer to a request for a direct report or at a change of Service Area, the *Request Type* IE from the LOCATION REPORTING CONTROL message shall be included.

If the LOCATION REPORT message is sent as an answer to a request for a direct report of Service Area and the current Service Area can not be determined by the RNC, then the *Area Identity* IE shall be omitted and a cause value shall be included to indicate that the request could not be fulfilled, e.g. "Requested Information Not Available". The RNC may also include the *Last Known Service Area* IE.

If the RNC can not deliver the location information as requested by the CN, due to either the non-support of the requested event or the non-suupport of the requested report area, the RNC shall indicate the UE location to be "Undetermined" by omitting the *Area Identity* IE. A cause value shall instead be added to indicate the reason for the undetermined location, e.g. "Requested Request Type not supported".

If the Location Report procedure was triggered by a LOCATION REPORTING CONTROL message, which included a request to report a geographical area with a specific accuracy, the LOCATION REPORT message shall include the *Geographical Area* IE within the *Area Identity* IE containing either a point with indicated uncertainty or a polygon or an other type, which fulfils the requested accuracy as accurately as possible. If, on the other hand, no specific accuracy level was requested in the LOCATION REPORTING CONTROL message, it is up to UTRAN to decide with which accuracy to report.

### 8.20.3 Abnormal Conditions

Not applicable.

## 9.1.29 LOCATION REPORTING CONTROL

This message is sent by the CN to initiate, modify or stop location reporting from the RNC to the CN.

Direction: CN → RNC.

Signalling bearer mode: Connection oriented.

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.1		YES	ignore
Request Type	M		9.2.1.16		YES	ignore

## 9.1.30 LOCATION REPORT

This message is sent by the RNC to the CN with information about the UE location.

Direction: RNC → CN.

Signalling bearer mode: Connection oriented.

IE/Group Name	Presence	Range	IE type and reference	Semantics description	Criticality	Assigned Criticality
Message Type	M		9.2.1.1		YES	ignore
Area Identity	O		9.2.3.10		YES	ignore
Cause	O		9.2.1.4		YES	ignore
Request Type	O		9.2.1.16		YES	ignore
<a href="#">Last Known Service Area</a>	<a href="#">O</a>		<a href="#">9.2.3.xx</a>		<a href="#">YES</a>	<a href="#">ignore</a>

### 9.2.3.21 Requested GPS Assistance Data

This information element is used for indicating the requested GPS assistance data.

This IE is transparent to CN.

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Requested GPS Assistance Data			OCTET STRING (SIZE(1..38))	For the corresponding Information Element Definition see "gpsAssistanceData" [22].

### 9.2.3.xx Last Known Service Area

This information element is used for indicating the last known Service Area and the elapsed time since the UE was known to be in this Service Area. The last known Service Area is reported when the current Service Area is unknown to the RNC.

<u>IE/Group Name</u>	<u>Presence</u>	<u>Range</u>	<u>IE type and reference</u>	<u>Semantics description</u>
<u>Last Known Service Area</u>				
<u>&gt;SAI</u>	<u>M</u>		<u>9.2.3.9</u>	
<u>&gt;Age of SAI</u>	<u>M</u>		<u>INTEGER (0..32767)</u>	<u>The value represents the elapsed time in minutes since the reported last known SAI was stored by the RNC. Value "0" shall not be used. Value "32767" indicates that the age of SAI is at least 32767 minutes old.</u>

### 9.3.3 PDU Definitions

```

-- *****
--
-- PDU definitions for RANAP.
--
-- *****

RANAP-PDU-Contents {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) ranap (0) version1 (1) ranap-PDU-Contents (1) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

-- *****
--
-- IE parameter types from other modules.
--
-- *****

IMPORTS
BroadcastAssistanceDataDecipheringKeys,
LocationRelatedDataRequestType,
DataVolumeReference,
AreaIdentity,
CN-DomainIndicator,
Cause,
CriticalityDiagnostics,
ChosenEncryptionAlgorithm,
ChosenIntegrityProtectionAlgorithm,
ClassmarkInformation2,
ClassmarkInformation3,
DL-GTP-PDU-SequenceNumber,
DL-N-PDU-SequenceNumber,
DataVolumeReportingIndication,
DRX-CycleLengthCoefficient,
EncryptionInformation,
GlobalCN-ID,
GlobalRNC-ID,
IntegrityProtectionInformation,
IuSignallingConnectionIdentifier,
IuTransportAssociation,
KeyStatus,
L3-Information,
LAI,
LastKnownServiceArea,
NAS-PDU,
NAS-SynchronisationIndicator,
NonSearchingIndication,
NumberOfSteps,
OMC-ID,
OldBSS-ToNewBSS-Information,
PagingAreaID,
PagingCause,
PDP-TypeInformation,
PermanentNAS-UE-ID,
RAB-ID,
RAB-Parameters,
RAC,
RelocationType,
RequestType,
Requested-RAB-Parameter-Values,
SAI,
SAPI,
Service-Handover,
SourceID,
SourceRNC-ToTargetRNC-TransparentContainer,
TargetID,
TargetRNC-ToSourceRNC-TransparentContainer,
TemporaryUE-ID,
TraceReference,
TraceType,
UnsuccessfullyTransmittedDataVolume,
TransportLayerAddress,
TriggerID,

```

```

UE-ID,
UL-GTP-PDU-SequenceNumber,
UL-N-PDU-SequenceNumber,
UP-ModeVersions,
UserPlaneMode,
Alt-RAB-Parameters,
Ass-RAB-Parameters
FROM RANAP-IEs

```

```

PrivateIE-Container{},
ProtocolExtensionContainer{},
ProtocolIE-ContainerList{},
ProtocolIE-ContainerPair{},
ProtocolIE-ContainerPairList{},
ProtocolIE-Container{},
RANAP-PRIVATE-IES,
RANAP-PROTOCOL-EXTENSION,
RANAP-PROTOCOL-IES,
RANAP-PROTOCOL-IES-PAIR
FROM RANAP-Containers

```

```

maxNrOfDTs,
maxNrOfErrors,
maxNrOfIuSigConIds,
maxNrOfRABs,
maxNrOfVol,

```

```

id-AreaIdentity,
id-Alt-RAB-Parameters,
id-Ass-RAB-Parameters,
id-BroadcastAssistanceDataDecipheringKeys,
id-LocationRelatedDataRequestType,
id-CN-DomainIndicator,
id-Cause,
id-ChosenEncryptionAlgorithm,
id-ChosenIntegrityProtectionAlgorithm,
id-ClassmarkInformation2,
id-ClassmarkInformation3,
id-CriticalityDiagnostics,
id-DRX-CycleLengthCoefficient,
id-DirectTransferInformationItem-RANAP-RelocInf,
id-DirectTransferInformationList-RANAP-RelocInf,
id-DL-GTP-PDU-SequenceNumber,
id-EncryptionInformation,
id-GlobalCN-ID,
id-GlobalRNC-ID,
id-IntegrityProtectionInformation,
id-IuSigConId,
id-IuSigConIdItem,
id-IuSigConIdList,
id-IuTransportAssociation,
id-KeyStatus,
id-L3-Information,
id-LAI,
id-LastKnownServiceArea,
id-NAS-PDU,
id-NonSearchingIndication,
id-NumberOfSteps,
id-OMC-ID,
id-OldBSS-ToNewBSS-Information,
id-PagingAreaID,
id-PagingCause,
id-PermanentNAS-UE-ID,
id-RAB-ContextItem,
id-RAB-ContextList,
id-RAB-ContextFailedtoTransferItem,
id-RAB-ContextFailedtoTransferList,
id-RAB-ContextItem-RANAP-RelocInf,
id-RAB-ContextList-RANAP-RelocInf,
id-RAB-DataForwardingItem,
id-RAB-DataForwardingItem-SRNS-CtxReq,
id-RAB-DataForwardingList,
id-RAB-DataForwardingList-SRNS-CtxReq,
id-RAB-DataVolumeReportItem,
id-RAB-DataVolumeReportList,
id-RAB-DataVolumeReportRequestItem,
id-RAB-DataVolumeReportRequestList,

```

```

id-RAB-FailedItem,
id-RAB-FailedList,
id-RAB-FailedtoReportItem,
id-RAB-FailedtoReportList,
id-RAB-ID,
id-RAB-ModifyList,
id-RAB-ModifyItem,
id-RAB-QueuedItem,
id-RAB-QueuedList,
id-RAB-ReleaseFailedList,
id-RAB-ReleaseItem,
id-RAB-ReleasedItem-IuRelComp,
id-RAB-ReleaseList,
id-RAB-ReleasedItem,
id-RAB-ReleasedList,
id-RAB-ReleasedList-IuRelComp,
id-RAB-RelocationReleaseItem,
id-RAB-RelocationReleaseList,
id-RAB-SetupItem-RelocReq,
id-RAB-SetupItem-RelocReqAck,
id-RAB-SetupList-RelocReq,
id-RAB-SetupList-RelocReqAck,
id-RAB-SetupOrModifiedItem,
id-RAB-SetupOrModifiedList,
id-RAB-SetupOrModifyItem,
id-RAB-SetupOrModifyList,
id-RAC,
id-RelocationType,
id-RequestType,
id-SAI,
id-SAPI,
id-SourceID,
id-SourceRNC-ToTargetRNC-TransparentContainer,
id-TargetID,
id-TargetRNC-ToSourceRNC-TransparentContainer,
id-TemporaryUE-ID,
id-TraceReference,
id-TraceType,
id-TransportLayerAddress,
id-TriggerID,
id-UE-ID,
id-UL-GTP-PDU-SequenceNumber
FROM RANAP-Constants;

```

Lots of unaffected ASN1 in 9.3.3 not shown

```

-- *****
--
-- LOCATION REPORT ELEMENTARY PROCEDURE
--
-- *****
--
-- *****
--
-- Location Report
--
-- *****

LocationReport ::= SEQUENCE {
    protocolIEs          ProtocolIE-Container          { {LocationReportIEs} },
    protocolExtensions   ProtocolExtensionContainer { {LocationReportExtensions} }
    OPTIONAL,
    ...
}

LocationReportIEs RANAP-PROTOCOL-IES ::= {
    { ID id-AreaIdentity          CRITICALITY ignore TYPE AreaIdentity          PRESENCE optional } |
    { ID id-Cause                 CRITICALITY ignore TYPE Cause                 PRESENCE optional } |
    { ID id-RequestType           CRITICALITY ignore TYPE RequestType           PRESENCE optional } ,
    ...
}

LocationReportExtensions RANAP-PROTOCOL-EXTENSION ::= {
{ ID id-LastKnownServiceArea    CRITICALITY ignore EXTENSION LastKnownServiceArea PRESENCE
optional},
    ...
}

```

Lots of unaffected ASN1 in 9.3.3 not shown



### 9.3.4 Information Element Definitions

```
-- *****
--
-- Information Element Definitions
--
-- *****
```

```
RANAP-IEs {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) ranap (0) version1 (1) ranap-IEs (2) }
```

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

Lots of unaffected ASN1 in 9.3.4 not shown

-- L

LAC ::= OCTET STRING (SIZE (2))

```
LAI ::= SEQUENCE {
  pLMNidentity          PLMNidentity,
  lAC                   LAC,
  iE-Extensions        ProtocolExtensionContainer { {LAI-ExtIEs} } OPTIONAL
}
```

```
LAI-ExtIEs RANAP-PROTOCOL-EXTENSION ::= {
  ...
}
```

```
LastKnownServiceArea ::= SEQUENCE {
  sAI          SAI,
  ageOfSAI    INTEGER (0..32767),
  ...
}
```

```
LocationRelatedDataRequestType ::= SEQUENCE {
  requestedLocationRelatedDataType RequestedLocationRelatedDataType,
  requestedGPSAssistanceData       RequestedGPSAssistanceData OPTIONAL,
  -- This IE shall be present if the Requested Location Related Data Type IE is set to 'Dedicated
  Assistance Data for Assisted GPS' --
  ...
}
```

L3-Information ::= OCTET STRING

-- M

Lots of unaffected ASN1 in 9.3.4 not shown

### 9.3.6 Constant Definitions

```
-- *****
--
-- Constant definitions
--
-- *****

RANAP-Constants {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) ranap (0) version1 (1) ranap-Constants (4) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN
```

Lots of unaffected ASN1 in 9.3.6 not shown

```
-- *****
--
-- IEs
--
-- *****

id-AreaIdentity                INTEGER ::= 0
id-CN-DomainIndicator         INTEGER ::= 3
id-Cause                      INTEGER ::= 4
id-ChosenEncryptionAlgorithm  INTEGER ::= 5
id-ChosenIntegrityProtectionAlgorithm  INTEGER ::= 6
id-ClassmarkInformation2      INTEGER ::= 7
id-ClassmarkInformation3      INTEGER ::= 8
id-CriticalityDiagnostics     INTEGER ::= 9
id-DL-GTP-PDU-SequenceNumber  INTEGER ::= 10
id-EncryptionInformation      INTEGER ::= 11
id-IntegrityProtectionInformation  INTEGER ::= 12
id-IuTransportAssociation     INTEGER ::= 13
id-L3-Information             INTEGER ::= 14
id-LAI                        INTEGER ::= 15
id-NAS-PDU                   INTEGER ::= 16
id-NonSearchingIndication     INTEGER ::= 17
id-NumberOfSteps              INTEGER ::= 18
id-OMC-ID                    INTEGER ::= 19
id-OldBSS-ToNewBSS-Information  INTEGER ::= 20
id-PagingAreaID              INTEGER ::= 21
id-PagingCause                INTEGER ::= 22
id-PermanentNAS-UE-ID        INTEGER ::= 23
id-RAB-ContextItem           INTEGER ::= 24
id-RAB-ContextList           INTEGER ::= 25
id-RAB-DataForwardingItem     INTEGER ::= 26
id-RAB-DataForwardingItem-SRNS-CtxReq  INTEGER ::= 27
id-RAB-DataForwardingList    INTEGER ::= 28
id-RAB-DataForwardingList-SRNS-CtxReq  INTEGER ::= 29
id-RAB-DataVolumeReportItem  INTEGER ::= 30
id-RAB-DataVolumeReportList  INTEGER ::= 31
id-RAB-DataVolumeReportRequestItem  INTEGER ::= 32
id-RAB-DataVolumeReportRequestList  INTEGER ::= 33
id-RAB-FailedItem            INTEGER ::= 34
id-RAB-FailedList            INTEGER ::= 35
id-RAB-ID                     INTEGER ::= 36
id-RAB-QueuedItem             INTEGER ::= 37
id-RAB-QueuedList            INTEGER ::= 38
id-RAB-ReleaseFailedList     INTEGER ::= 39
id-RAB-ReleaseItem           INTEGER ::= 40
id-RAB-ReleaseList           INTEGER ::= 41
id-RAB-ReleasedItem          INTEGER ::= 42
id-RAB-ReleasedList          INTEGER ::= 43
id-RAB-ReleasedList-IuRelComp  INTEGER ::= 44
id-RAB-RelocationReleaseItem  INTEGER ::= 45
id-RAB-RelocationReleaseList  INTEGER ::= 46
id-RAB-SetupItem-RelocReq    INTEGER ::= 47
id-RAB-SetupItem-RelocReqAck  INTEGER ::= 48
id-RAB-SetupList-RelocReq    INTEGER ::= 49
id-RAB-SetupList-RelocReqAck  INTEGER ::= 50
id-RAB-SetupOrModifiedItem   INTEGER ::= 51
id-RAB-SetupOrModifiedList   INTEGER ::= 52
id-RAB-SetupOrModifyItem     INTEGER ::= 53
```

id-RAB-SetupOrModifyList	INTEGER ::= 54
id-RAC	INTEGER ::= 55
id-RelocationType	INTEGER ::= 56
id-RequestType	INTEGER ::= 57
id-SAI	INTEGER ::= 58
id-SAPI	INTEGER ::= 59
id-SourceID	INTEGER ::= 60
id-SourceRNC-ToTargetRNC-TransparentContainer	INTEGER ::= 61
id-TargetID	INTEGER ::= 62
id-TargetRNC-ToSourceRNC-TransparentContainer	INTEGER ::= 63
id-TemporaryUE-ID	INTEGER ::= 64
id-TraceReference	INTEGER ::= 65
id-TraceType	INTEGER ::= 66
id-TransportLayerAddress	INTEGER ::= 67
id-TriggerID	INTEGER ::= 68
id-UE-ID	INTEGER ::= 69
id-UL-GTP-PDU-SequenceNumber	INTEGER ::= 70
id-RAB-FailedtoReportItem	INTEGER ::= 71
id-RAB-FailedtoReportList	INTEGER ::= 72
id-KeyStatus	INTEGER ::= 75
id-DRX-CycleLengthCoefficient	INTEGER ::= 76
id-IuSigConIdList	INTEGER ::= 77
id-IuSigConIdItem	INTEGER ::= 78
id-IuSigConId	INTEGER ::= 79
id-DirectTransferInformationItem-RANAP-RelocInf	INTEGER ::= 80
id-DirectTransferInformationList-RANAP-RelocInf	INTEGER ::= 81
id-RAB-ContextItem-RANAP-RelocInf	INTEGER ::= 82
id-RAB-ContextList-RANAP-RelocInf	INTEGER ::= 83
id-RAB-ContextFailedtoTransferItem	INTEGER ::= 84
id-RAB-ContextFailedtoTransferList	INTEGER ::= 85
id-GlobalRNC-ID	INTEGER ::= 86
id-RAB-ReleasedItem-IuRelComp	INTEGER ::= 87
id-MessageStructure	INTEGER ::= 88
id-Alt-RAB-Parameters	INTEGER ::= 89
id-Ass-RAB-Parameters	INTEGER ::= 90
id-RAB-ModifyList	INTEGER ::= 91
id-RAB-ModifyItem	INTEGER ::= 92
id-TypeOfError	INTEGER ::= 93
id-BroadcastAssistanceDataDecipheringKeys	INTEGER ::= 94
id-LocationRelatedDataRequestType	INTEGER ::= 95
id-GlobalCN-ID	INTEGER ::= 96
<a href="#">id-LastKnownServiceArea</a>	INTEGER ::= x1

END