

**TSG-RAN Meeting #10
Bangkok, Thailand, 6 - 8 December 2000**

TSGRP#10(00)0616

Title: Agreed CRs to TS 25.419

Source: TSG-RAN WG3

Agenda item: 5.3.3

Tdoc_Num	Specification	CR_Num	Revision_Nu	CR_Subject	CR_Categor	WG_Status	Cur_Ver_Nu	New_Ver_Nu
R3-002718	25.419	024	1	Handling of the optional IEs inside the Criticality	F	agreed	3.2.0	3.3.0
R3-002526	25.419	025		Protocol specification principles	F	agreed	3.2.0	3.3.0
R3-002563	25.419	026		Editorial Modifications for 25.419	D	agreed	3.2.0	3.3.0
R3-002713	25.419	027	1	Clarification on rules for assigning criticality/presence	F	agreed	3.2.0	3.3.0
R3-002684	25.419	028		Correction of Triggering Message IE	F	agreed	3.2.0	3.3.0
R3-003244	25.419	029	1	Clarification of SAI Definition	F	agreed	3.2.0	3.3.0

CHANGE REQUEST				<i>Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.</i>	
25.419		CR 24r1		Current Version: 3.2.0	
GSM (AA.BB) or 3G (AA.BBB) specification number ↑			↑ CR number as allocated by MCC support team		
For submission to: TSG RAN #10 <small>list expected approval meeting # here ↑</small>	for approval <input checked="" type="checkbox"/>	for information <input type="checkbox"/>	strategic <input type="checkbox"/>	(for SMG use only)	
				non-strategic <input type="checkbox"/>	

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: R-WG3 **Date:** October 2000

Subject: Handling of the optional IEs inside the *Criticality Diagnostics IE*

Work item:

Category:	<p>F Correction <input checked="" type="checkbox"/></p> <p>A Corresponds to a correction in an earlier release <input type="checkbox"/></p> <p>B Addition of feature <input type="checkbox"/></p> <p>C Functional modification of feature <input type="checkbox"/></p> <p>D Editorial modification <input type="checkbox"/></p>	Release:	<p>Phase 2 <input type="checkbox"/></p> <p>Release 96 <input type="checkbox"/></p> <p>Release 97 <input type="checkbox"/></p> <p>Release 98 <input type="checkbox"/></p> <p>Release 99 <input checked="" type="checkbox"/></p> <p>Release 00 <input type="checkbox"/></p>
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(only one category shall be marked with an X)

Reason for change:

In the current SABP specification the handling of the Criticality Diagnostics IE is not clear. Currently there is semantics for the individual parts of the IE but there is no normative specification text. Since this IE is used to report compatibility problems between nodes it is absolutely essential that all nodes behave in the same (well-defined) way.

This CR introduces normative text for chapter 10 describing under what conditions different parts of the Criticality Diagnostics IE are included. Some enhancements of the Criticality IE itself are also included.

Consequence if not accepted:
If this CR is not accepted the compatibility mechanisms are not fully normative parts of the specification. The compatibility handling will thus be less reliable and inter-working problems may occur.

Clauses affected: 9.2.1.17, 9.3.4, 10.3.4, and 10.3.5

Other specs affected:	<p>Other 3G core specifications <input checked="" type="checkbox"/></p> <p>Other GSM core specifications <input type="checkbox"/></p> <p>MS test specifications <input type="checkbox"/></p> <p>BSS test specifications <input type="checkbox"/></p> <p>O&M specifications <input type="checkbox"/></p>	<p>→ List of CRs: TS 25.413 CR189, TS 25.423 CR205, TS 25.433 CR253</p> <p>→ List of CRs:</p> <p>→ List of CRs:</p> <p>→ List of CRs:</p> <p>→ List of CRs:</p>
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Other comments:

9.2.17 Criticality Diagnostics

IE/Group Name	Presence	Range	IE type and reference	Semantics description
Criticality Diagnostics				
>Procedure Code	O		INTEGER (0..255)	Procedure e C o d e is to be used if Criticality e D i a g n o s t i c s is part of Error Indication procedure, and not within the response message of the same p r o c e d u r e o p e r a t i o n that caused the error
>Triggering Message	O		ENUMERATED(initiating message, successful outcome, unsuccessful outcome, outcome)	The Triggering Message is used only if the Criticality e D i a g n o s t i c s is part of Error Indication procedure except when the procedure code is not understood.
> P r o c e d u r e C r i t i c a l i t y R e s p o n s e	O		ENUMERATED(reject, ignore, notify)	This P r o c e d u r e C r i t i c a l i t y R e s p o n s e I E is used for reporting the Criticality of the Triggering message (P r o c e d u r e). The value 'ignore' shall never be used.
Information Element Criticality Diagnostics		0 to <maxnoof errors>		
> I E C r i t i c a l i t y R e s p o n s e	M		ENUMERATED(reject, ignore, notify)	The I E C r i t i c a l i t y R e s p o n s e I E is used for reporting the criticality of the triggering IE. The value 'ignore' shall not be used.
>IE ID	M		INTEGER (0..65535)	The IE Id of the not understood or missing IE
>Repetition Number	O		INTEGER (1..256)	The repetition number of the not understood IE if applicable

Range bound	Explanation
Maxnooferrors	Maximum no. of IE errors allowed to be reported with a single message. The value for maxnooferrors is 256.

9.3.4 Information Element Definitions

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

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

```
DEFINITIONS AUTOMATIC TAGS ::=
```

```
BEGIN
```

<Editor's note: Parts of the module is skipped.>

```
-- C
```

```
Category ::= ENUMERATED {
    high-priority,
    background-priority,
    normal-priority,
    default-priority,
    ...
}
```

```
Cause ::= INTEGER {
    parameter-not-recognised (0),
    parameter-value-invalid (1),
    valid-CN-message-not-identified (2),
    service-area-identity-not-valid (3),
    unrecognised-message (4),
    missing-mandatory-element (5),
    rNC-capacity-exceeded (6),
    rNC-memory-exceeded (7),
    service-area-broadcast-not-supported (8),
    service-area-broadcast-not-operational (9),
    message-reference-already-used (10),
    unspecified-error (11),
    transfer-syntax-error (12),
    semantic-error (13),
    message-not-compatible-with-receiver-state (14),
    abstract-syntax-error-reject (15),
    abstract-syntax-error-ignore-and-notify (16),
    abstract-syntax-error-falsely-constructed-message (17)
} (0..255)
```

```
Criticality-Diagnostics ::= SEQUENCE {
    procedureCode ProcedureCode OPTIONAL,
    triggeringMessage TriggeringMessage OPTIONAL,
```

```

    procedureCriticalityResponse Criticality OPTIONAL,
    iEsCriticalityDiagnosticsResponses CriticalityDiagnostics-IE-List OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {CriticalityDiagnostics-ExtIEs} } OPTIONAL,
    ...
}

CriticalityDiagnostics-ExtIEs SABP-PROTOCOL-EXTENSION ::= {
    ...
}

CriticalityDiagnostics-IE-List ::= SEQUENCE (SIZE (1..maxNrOfErrors)) OF
SEQUENCE {
    iECriticalityResponse Criticality,
    iE-ID ProtocolIE-ID,
    repetitionNumber RepetitionNumber OPTIONAL,
    iE-Extensions ProtocolExtensionContainer { {CriticalityDiagnostics-IE-List-ExtIEs} } OPTIONAL,
    ...
}

CriticalityDiagnostics-IE-List-ExtIEs SABP-PROTOCOL-EXTENSION ::= {
    ...
}

-- D

```

<Editor's note: The rest of the module is skipped.>

10.3.4 Not comprehended IE/IE group

10.3.4.1 Procedure Code

The receiving node shall treat the different types of received criticality information of the *Procedure Code* according to the following:

Reject IE:

- If a message is received with a *Procedure Code* marked with "*Reject IE*" which the receiving node does not comprehend, the receiving node shall reject the procedure using the Error Indication procedure.

Ignore IE and Notify Sender:

- If a message is received with a *Procedure Code* marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the procedure and initiate the Error Indication procedure.

Ignore IE:

- If a message is received with a *Procedure Code* marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the procedure.

When using the Error Indication procedure to reject a procedure or to report an ignored procedure it shall include the Procedure Code IE, the Triggering Message IE, and the Procedure Criticality IE in the Criticality Diagnostics IE.

10.3.4.2 IEs other than the Procedure Code

The receiving node shall treat the different types of received criticality information of an IE/IE group other than the *Procedure Code* according to the following:

Reject IE:

- If a message *initiating* a procedure is received containing one or more Ies/IE groups marked with "*Reject IE*" which the receiving node does not comprehend; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the rejection of one or more Ies/IE groups using the message normally used to report unsuccessful outcome of the procedure.
- If a message *initiating* a procedure that does not have a message to report unsuccessful outcome is received containing one or more Ies/IE groups marked with "*Reject IE*" which the receiving node does not comprehend, the receiving node shall initiate the Error Indication procedure.
- If a *response* message is received containing one or more IEs marked with "*Reject IE*" which the receiving node does not comprehend, the receiving node shall initiate local error handling.

Ignore IE and Notify Sender:

- If a message *initiating* a procedure is received containing one or more Ies/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups, and report in the response message of the procedure that one or more IEs/IE groups have been ignored.
- if a message *initiating* a procedure that does not have a message to report the outcome of the procedure is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups, continue with the procedure as if the not comprehended IEs/IE groups were not received (except for the reporting) using the understood IEs/IE groups, and initiate the Error Indication procedure to report that one or more IEs/IE groups have been ignored.
- If a *response* message is received containing one or more IEs/IE groups marked with "*Ignore IE and Notify Sender*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IE/IE groups and initiate the Error Indication procedure.

Ignore IE:

- If a message *initiating* a procedure is received containing one or more IEs/IE groups marked with "*Ignore IE*" which the receiving node does not comprehend, the receiving node shall ignore the content of the not comprehended IEs/IE groups and continue with the procedure as if the not comprehended IEs/IE groups were not received using only the understood IEs/IE groups.

When reporting not comprehended IEs/IE groups marked with "*Reject IE*" or "*Ignore IE and Notify Sender*" using a response message defined for the procedure, the *Information Element Criticality Diagnostics IE* shall be included in the *Criticality Diagnostics IE* for each reported IE/IE group. The *Repetition Number IE* shall be included in the *Information Element Criticality Diagnostics IE* if the reported IE/IE group was part of a "SEQUENCE OF" definition.

When reporting not comprehended IEs/IE groups marked with "*Reject IE*" or "*Ignore IE and Notify Sender*" using the Error Indication procedure, the *Procedure Code IE*, the *Triggering Message IE*, *Procedure Criticality IE*, and the *Information Element Criticality Diagnostics IE* shall be included in the *Criticality Diagnostics IE* for each reported IE/IE group. The *Repetition Number IE* shall be included in the *Information Element Criticality Diagnostics IE* if the reported IE/IE group was part of a "SEQUENCE OF" definition.

10.3.5 Missing IE or IE group

The receiving node shall treat the missing IE/IE group according to the criticality information for the missing IE/IE group in the received message specified in the version of this specification used by the receiver:

Reject IE:

- if a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Reject IE*"; none of the functional requests of the message shall be executed. The receiving node shall reject the procedure and report the missing IEs/IE groups using the message normally used to report unsuccessful outcome of the procedure.
- if a received message *initiating* a procedure that does not have a message to report unsuccessful outcome is missing one or more IEs/IE groups with specified criticality "*Reject IE*", the receiving node shall initiate the Error Indication procedure.
- if a received *response* message is missing one or more IEs/IE groups with specified criticality "*Reject IE*", the receiving node shall initiate local error handling.

Ignore IE and Notify Sender:

- if a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall continue with the procedure based on the other IEs/IE groups present in the message and report in the response message of the procedure that one or more IEs/IE groups were missing.
- if a received message *initiating* a procedure that does not have a message to report the outcome of the procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall continue with the procedure based on the other IEs/IE groups present in the message and initiate the Error Indication procedure to report that one or more IEs/IE groups were missing.
- if a received *response* message is missing one or more IEs/IE groups with specified criticality "*Ignore IE and Notify Sender*", the receiving node shall initiate the Error Indication procedure.

Ignore IE:

- if a received message *initiating* a procedure is missing one or more IEs/IE groups with specified criticality "*Ignore IE*", the receiving node shall continue with the procedure based on the other IEs/IE groups present in the message.

When reporting missing IEs/IE groups with specified criticality "*Reject IE*" or "*Ignore IE and Notify Sender*" using a response message defined for the procedure, the *Information Element Criticality Diagnostics IE* shall be included in the *Criticality Diagnostics IE* for each reported IE/IE group.

When reporting missing IEs/IE groups with specified criticality "*Reject IE*" or "*Ignore IE and Notify Sender*" using the *Error Indication* procedure, the *Procedure Code IE*, the *Triggering Message IE*, *Procedure Criticality IE*, and the *Information Element Criticality Diagnostics IE* shall be included in the *Criticality Diagnostics IE* for each reported IE/IE group.

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.419 CR 25

Current Version: **3.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **TSG RAN #10**

list expected approval meeting # here ↑

for approval

for information

strategic

non-strategic

(for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG

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Proposed change affects:

(at least one should be marked with an X)

(U)SIM

ME

UTRAN / Radio

Core Network

Source:

R-WG3

Date:

October 2000

Subject:

Protocol specification principles

Work item:

Category:

(only one category shall be marked with an X)

F Correction

A Corresponds to a correction in an earlier release

B Addition of feature

C Functional modification of feature

D Editorial modification

Release:

Phase 2

Release 96

Release 97

Release 98

Release 99

Release 00

Reason for change:

This group of CR's clarifies the protocol specification principles that are used in the specification.

If this group of CR's is not accepted, unclarity in the specifications could lead to interoperability problems.

Clauses affected:

4.

Other specs

Other 3G core specifications

→ List of CRs:

TS 25.413 CR190

TS 25.423 CR210

TS 25.433 CR260

affected:

Other GSM core specifications

→ List of CRs:

MS test specifications

→ List of CRs:

BSS test specifications

→ List of CRs:

O&M specifications

→ List of CRs:

Other

comments:

4 General

The protocol described in the present document is the protocol between CN (CBC) and RNC needed for the CBC Application. The CBC Application is described in [5].

4.1 Procedure Specification Principles

The principle for specifying the procedure logic is to specify the functional behaviour of the RNC exactly and completely. The CN functional behaviour is left unspecified.

The following specification principles have been applied for the procedure text in chapter 8:

- The procedure text discriminates between:

1) Functionality which "shall" be executed

The procedure text indicates that the receiving node "shall" perform a certain function Y under a certain condition. If the receiving node supports procedure X but cannot perform functionality Y requested in the REQUEST message of a Class 1 EP, the receiving node shall respond with the message used to report unsuccessful outcome for this procedure, containing an appropriate cause value.

2) Functionality which "shall, if supported" be executed

The procedure text indicates that the receiving node "shall, if supported," perform a certain function Y under a certain condition. If the receiving node supports procedure X, but does not support functionality Y, the receiving node shall proceed with the execution of the EP, possibly informing the requesting node about the not supported functionality.

- Any required inclusion of an optional IE in a response message is explicitly indicated in the procedure text. If the procedure text does not explicitly indicate that an optional IE shall be included in a response message, the optional IE shall not be included.

4.2 Forwards and Backwards Compatibility

The forwards and backwards compatibility of the protocol is assured by mechanism where all current and future messages, and IEs or groups of related IEs, include Id and criticality fields that are coded in a standard format that will not be changed in the future. These parts can always be decoded regardless of the standard version.

4.13 Specification Notations

For the purposes of the present document, the following notations apply:

Procedure	When referring to an elementary procedure in the specification the Procedure Name is written with the first letters in each word in upper case characters followed by the word "procedure", e.g. Write-Replace procedure.
Message	When referring to a message in the specification the MESSAGE NAME is written with all letters in upper case characters followed by the word "message", e.g. WRITE-REPLACE message.
IE	When referring to an information element (IE) in the specification the <i>Information Element Name</i> is written with the first letters in each word in upper case characters and all letters in Italic font followed by the abbreviation "IE", e.g. <i>Old Serial Number</i> IE.
Value of an IE	When referring to the value of an information element (IE) in the specification the "Value" is written as it is specified in subclause 9.2 enclosed by quotation marks, e.g. "Abstract Syntax Error (Reject)" or "Background".

CHANGE REQUEST		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.	
25.419 CR 026		Current Version: 3.2.0	
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team	
For submission to: TSG RAN#10	for approval <input checked="" type="checkbox"/>	strategic <input type="checkbox"/>	(for SMG use only)
list expected approval meeting # here ↑	for information <input type="checkbox"/>	non-strategic <input type="checkbox"/>	

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: <ftp://ftp.3gpp.org/Information/CR-Form-v2.doc>

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: R-WG3 **Date:** October 6, 2000

Subject: Editorial Modifications for 25.419

Work item:

Category:	F Correction <input type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input checked="" type="checkbox"/>	Release:	Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/>
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(only one category shall be marked with an X)

Reason for change: There is a grammatical mistakes that is corrected.

Clauses affected: 9.1.19

Other specs affected:	Other 3G core specifications <input type="checkbox"/> → List of CRs: Other GSM core specifications <input type="checkbox"/> → List of CRs: MS test specifications <input type="checkbox"/> → List of CRs: BSS test specifications <input type="checkbox"/> → List of CRs: O&M specifications <input type="checkbox"/> → List of CRs:	
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Other comments:



help.doc

<----- double-click here for help and instructions on how to create a CR.

9.1.19 FAILURE

This message is sent from the RNC to the CN to indicate that a Service Area broadcasting-related problem exists in one or more of its Service-Areas.

Direction: RNC → CN

PARAMETER	PRESENCE	RANGE	IE Type and Reference	Semantics Description	Criticality	Assigned Criticality
Message Type	M		9.2.1		yes	ignore
Service Areas List	M		9.2.6		yes	ignore

CHANGE REQUEST		Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.
25.419	CR	027r1
GSM (AA.BB) or 3G (AA.BBB) specification number ↑		↑ CR number as allocated by MCC support team
For submission to: RAN#10	for approval <input checked="" type="checkbox"/>	strategic <input type="checkbox"/>
<small>list expected approval meeting # here ↑</small>	for information <input type="checkbox"/>	non-strategic <input type="checkbox"/> <small>(for SMG use only)</small>
Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc		

Proposed change affects: (U)SIM ME UTRAN / Radio Core Network
(at least one should be marked with an X)

Source: R-WG3 **Date:** 2000-10-18

Subject: Clarification on rules for using the tabular format.

Work item:

Category:	F Correction <input checked="" type="checkbox"/>	Release:	Phase 2 <input type="checkbox"/>
	A Corresponds to a correction in an earlier release <input type="checkbox"/>		Release 96 <input type="checkbox"/>
<small>(only one category shall be marked with an X)</small>	B Addition of feature <input type="checkbox"/>		Release 97 <input type="checkbox"/>
	C Functional modification of feature <input type="checkbox"/>		Release 98 <input type="checkbox"/>
	D Editorial modification <input type="checkbox"/>		Release 99 <input checked="" type="checkbox"/>
			Release 00 <input type="checkbox"/>

Reason for change: R There is currently no explanation of deviations from the "25.921 sort of tabular format style" for the "Range" and "Assigned Criticality" column.
If this CR is not approved there might be confusion on what is meant by the "Range" and the "Assigned Criticality" columns.

Clauses affected: 9.1.2.x (new), 9.1.2.y (new)

Other specs affected:

Other 3G core specifications <input type="checkbox"/>	→ List of CRs:	
Other GSM core specifications <input type="checkbox"/>	→ List of CRs:	
MS test specifications <input type="checkbox"/>	→ List of CRs:	
BSS test specifications <input type="checkbox"/>	→ List of CRs:	
O&M specifications <input type="checkbox"/>	→ List of CRs:	

Other comments:



help.doc

<----- double-click here for help and instructions on how to create a CR.

9.1.2.x Range

The Range column indicates the allowed number of copies of repetitive IEs/IE groups.

9.1.2.y Assigned Criticality

This column provides the actual criticality information as defined in chapter 10.3.2, if applicable.

CHANGE REQUEST

Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.

25.419 CR 028

Current Version: **3.2.0**

GSM (AA.BB) or 3G (AA.BBB) specification number ↑

↑ CR number as allocated by MCC support team

For submission to: **RAN#10**
list expected approval meeting # here ↑

for approval
for information

strategic
non-strategic (for SMG use only)

Form: CR cover sheet, version 2 for 3GPP and SMG The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc

Proposed change affects:

(at least one should be marked with an X)

(U)SIM ME UTRAN / Radio Core Network

Source:

R-WG3

Date:

2000-10-13

Subject:

Correction of Triggering Message IE

Work item:

Category:

(only one category shall be marked with an X)

F Correction
A Corresponds to a correction in an earlier release
B Addition of feature
C Functional modification of feature
D Editorial modification

Release:

Phase 2
Release 96
Release 97
Release 98
Release 99
Release 00

Reason for change:

There is a misalignment between the tabular format and ASN.1 for the "Triggering Message" in Criticality Diagnostics.

- "Triggering Message" is extensible in the ASN.1 but not in the tabular format.
- Message type "outcome" is missing in the ASN.1.

This CR proposes to align the ASN.1 type "TriggeringMessage" with the tabular format since it is in line with the other RAN3 protocol specifications.

Consequence if not accepted:

If this CR is not accepted, then it will be allowed by the SABP ASN.1 to extend the EP definitions with completely new classes.

Clauses affected:

9.3.5

Other specs affected:

Other 3G core specifications → List of CRs:
Other GSM core specifications → List of CRs:
MS test specifications → List of CRs:
BSS test specifications → List of CRs:
O&M specifications → List of CRs:

Other comments:



help.doc

<----- double-click here for help and instructions on how to create a CR.

9.3.5 Common Definitions

```
-- *****
--
-- Common definitions
--
-- *****

SABP-CommonDataTypes {
itu-t (0) identified-organization (4) etsi (0) mobileDomain (0)
umts-Access (20) modules (3) sabp (3) version1 (1) sabp-CommonDataTypes (3) }

DEFINITIONS AUTOMATIC TAGS ::=

BEGIN

Criticality ::= ENUMERATED { reject, ignore, notify }

Presence ::= ENUMERATED { optional, conditional, mandatory }

ProcedureCode ::= INTEGER (0..255)

ProtocolExtensionID ::= INTEGER (0..65535)

ProtocolIE-ID ::= INTEGER (0..65535)

| TriggeringMessage ::= ENUMERATED {initiating-message, successful-outcome, unsuccessful-outcome, outcome---}

END
```


<small>CR-Form-v3</small>	
<h1>CHANGE REQUEST</h1>	
⌘ 25.419 CR 029 ⌘ rev R1 ⌘	Current version: 3.2.0 ⌘

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

Title:	⌘ Clarification of SAI Definition		
Source:	⌘ R-WG3		
Work item code:	⌘	Date:	⌘ 21 November 2000
Category:	⌘ F	Release:	⌘ Release 99
	<i>Use one of the following categories:</i> F (essential correction) A (corresponds to a correction in an earlier release) B (Addition of feature), C (Functional modification of feature) D (Editorial modification)		<i>Use one of the following releases:</i> 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) REL-4 (Release 4) REL-5 (Release 5)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900.		

Reason for change:	⌘ The current definition of SAI is ambiguous, and the definition needs aligning with the clarification for 23.003, which distinguishes between PS/CS and BC domains.
Summary of change:	⌘ Removal of word "uniquely", and addition of statement with regard to which SAI shall be used.
Consequences if not approved:	⌘ Different implementations of RNC will exhibit different behaviours, making multi-vendor interworking unpredictable or impossible.

Clauses affected:	⌘ 9.2.11		
Other specs affected:	<input checked="" type="checkbox"/> Other core specifications <input type="checkbox"/> Test specifications <input type="checkbox"/> O&M Specifications	⌘	25.413 CR234, 25.423 CR274, 23.003 CRxxx
Other comments:	⌘ 23.003 CR number is not yet assigned.		

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. 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://www.3gpp.org/specs/>. For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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.

9.2.11 Service Area Identifier

Service Area Identifier IE is used to ~~uniquely~~ identify an area consisting of one or more cells belonging to the same Location Area. Such an area is called a Service Area ~~and can be used for indicating the location of a UE to the CN.~~ For this protocol, only a Service Areas that are defined to be applicable to the BC domain shall be used.

IE/Group Name	Presence	Range	IE type and Reference	Semantics description
SAI				
>PLMN ID	M		OCTET STRING (SIZE (3))	<ul style="list-style-type: none"> - digits 0 to 9, two digits per octet, - each digit encoded 0000 to 1001, - 1111 used as filler - bit 4 to 1 of octet n encoding digit 2n-1 - bit 8 to 5 of octet n encoding digit 2n <p>-The PLMN-ID consists of 3 digits from MCC followed by either</p> <ul style="list-style-type: none"> -a filler plus 2 digits from MNC (in case of 2 digit MNC) or -3 digits from MNC (in case of a 3 digit MNC).
>LAC	M		OCTET STRING (2)	0000 and FFFE not allowed.
>SAC	M		OCTET STRING (2)	