Source: SA1

Title: **CR to 22.078 on criteria for "change of position" procedures in CAMEL (Rel-6)**

Document for: **Approval**

Agenda Item: **7.1.3**

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers. Current	Vers New	SA1 Doc
SP-21	SP-030462	22.078	160		Rel-6	F	Criteria for "change of position" procedures	6.1.0	6.2.0	S1-030727

CR-Form-v7

CHANGE REQUEST

⌘ **22.078** CR **160** ⌘**rev** **-** ⌘ Current version: **6.1.0** ⌘

*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 **X**

Title: ⌘	Criteria for "change of position" procedures		
Source: ⌘	Siemens AG		
Work item code: ⌘	TEI_6	*Date:* ⌘	18/06/2003
Category: ⌘ **F**		*Release:* ⌘	Rel-6

Use one of the following categories:
F *(correction)*
A *(corresponds to a correction in an earlier release)*
B *(addition of feature),*
C *(functional modification of feature)*
D *(editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one 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)*

Reason for change: ⌘	Currently, if the associated DPs are armed, the CAMEL "Change of position" procedures for mobile originating/terminating subscribers report handover events unconditionally. There was concern by operators and manufacturers that if reporting is performed each time a handover occurs the signalling load would increase drastically. Also the original intention, when this feature was proposed, was to distinguish the tariff if the subscriber's location was within a certain area, GSM/UMTS system or network. For these reasons, the current unconditional reporting would be more harzardous than beneficial. To solve the problem and meet the original intention of the introduced feature, the CSE should instruct the VPLMN to report only when the subscriber moves to the intended area or network.
Summary of change: ⌘	Add the criteria of the location information to be reported to the CSE.
Consequences if not approved: ⌘	Signalling load would increase drastically and the CSE (gsmSCF) might be overloaded by the unnecessary information for the service.
Clauses affected: ⌘	5.12, 6.12

Y | **N**

Other specs affected:	⌘	X		Other core specifications	⌘	23.078, 29.078
			X	Test specifications		
			X	O&M Specifications		

| Other comments: | ⌘ | - This CR was presented at CN2#29, 19-23 May in San Diego, for information and comments. CN2 (signalling) experts noted the concern and supported the idea.
- The technical implementation in CN2 may be done in one meeting time.
- CN plenary acknowledged such a small feature may be handled under WI: TEI. |

5.12   Change of position procedure

When the CSE instructs the VPLMN to arm the change of position ~~event, the~~event it may specify a criterion against which location the subscriber changed to/from shall be matched. The VPLMN shall report the event when the subscriber's location information changed and the criteria met.

~~changed.~~ The instruction by the CSE may contain a list of up to 10 location changes to be reported as the criterion. The criteria contains the border over which the subscriber changes in terms of one of the following information:

- cell id;

- location area id;

- service area id;

or following changes;

- "inter-system hand over";

- "inter-PLMN hand over".

If more then one criteria is met, then only one change of position event shall be reported to the CSE.

If this list of location change is not included in the instruction, the criteria upon any change of position shall be regarded as fulfilled.

It shall be possible for the CSE to instruct the VPLMN to re-arm the change of position event when it is encountered.

~~encountered.~~If the CSE has activated this service event for the served subscriber and a change of position event occurs (as determined by the criterion for the change of position procedure being satisfied) the VPLMN shall:

- Notify the CSE and continue call processing.

The following information shall be provided to the CSE:

- Event met;

- Type of monitoring;

- Event specific data;

    - Location information:

- Charge result if charging supervision is provided:

When the VPLMN has made contact with the CSE, the CSE shall be able to instruct the VPLMN to act as described below:

- Perform charging activities;

- Activate other control service events for the call. The CSE shall have the possibility to send the following information:

    - The service event which shall be detected and reported:

        - Change of position event.

    - The party in the call for which the event shall be detected and reported;

    - The type of monitoring (notification);

    - Order in-band user interaction.

There shall be no restriction regarding the order of the above instructions or the number of times each of the above instructions can be repeated.

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