Technical Specification Group Services and System Aspects **TSGS#25(04)0503** Meeting #25, Palm Springs, USA**

Source: SA1

Title: CRs to 22.078 on Location Retrieval for MT call handling (Rel-6,

Rel-7)

Document for: Approval

Agenda Item: 7.1.3

Meeti	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers.	Vers	SA1 Doc
ng								Curre	New	
								nt		
SP-25	SP-040503	22.078	175	-	Rel-6	F	Location Retrieval for MT call handling	6.5.0	6.6.0	S1-040688
SP-25	SP-040503	22.078	176	-	Rel-7	Α	Location Retrieval for MT call handling	7.0.0	7.1.0	S1-040689

CHANGE REQUEST # 22.078 CR 0175 # rev - # Current version: 6.5.0 # Proposed change affects: UICC apps# ME Radio Access Network Core Network X

Title:	ж	Location Retrieval for MT call handling		
Source:	¥	SA1 (Ericsson)		
Work item code	:#	TEI6	Date: ₩	01/072004
Category:	¥		Release: #	
		Use <u>one</u> of the following categories: F (correction)	Use <u>one</u> of 2	the following releases: (GSM Phase 2)
		A (corresponds to a correction in an earlier release B (addition of feature).	se) R96 R97	(Release 1996) (Release 1997)
		C (functional modification of feature)	R98	(Release 1998)
		D (editorial modification)	R99 Rel-4	(Release 1999) (Release 4)
			Rel-5	(Release 5)
			Rel-6	(Release 6)

Reason for change:

Section 22 requires refinement. The current text does not clearly specify that the HLR may obtain the subscriber's location information during Mobile Terminating (MT) call handling. This information is forwarded to the CSE for CAMEL handling of the MT call.

This mechanism whereby the HLR obtains the called subscriber's location during MT call handling exists as from CAMEL Phase 1 (GSM R96) onwards.

The mechanism for the HLR to obtain the called subscriber's location during MT call handling, is an HPLMN operator's option.

In addition, the CSE may at any time obtain the subscriber's location, by interrogating the HLR. That mechanism exists as form GSM R96 onwards. In 3GPP R99, said functionality is enhanced, with the possibility to page the subscriber in the VLR.

Summary of change: ₩ <mark>Т</mark>

The present CR proposes the following changes to section 22:

- Add a paragraph that explains that the HLR may obtain the subscriber's location during MT call handling; that proposed text reflects current (R96 onwards) HLR functionality.
- 2. Add a sentence to the second paragraph, indicating that the location information that the CSE may obtain from the HLR may be the result of paging; that is existing functionality (R96 onwards & R99 onwards).
- 3. Remove the fourth paragraph, as the current wording is confusing. Details of the location information that may be returned by the HLR are already specified in 3GPP TS 23.018 and the removed information is not complete.

The revised section 22, including the changes proposed by the present CR, result in improved structure of that section. The second paragraph in revised section 22 pertains to the HLR's capability to obtain location information during MT call handling; the third paragraph in revised section 22 pertains to the CSE's capability to request location information from the HLR.

Consequences if not approved:

Service designers will not be properly informed about the HLR's capability to obtain subscriber location information during MT call handling.

Clauses affected:	第 22
Other specs affected:	Y N X Other core specifications Test specifications O&M Specifications
Other comments:	光

*** First Modification ***

22 Location Information

The purpose of this procedure is to obtain the location of a particular subscriber. The resolution of the location information may be based on the Cell Identity or Service Area Identity of the subscriber's location, or may be based on more accurate positioning information.

During Mobile Terminating call handling, the HLR may obtain the subscriber's location from the VPLMN.

The CSE may interrogate the HLR in order to obtain a particular subscriber's location based on the cell identity, service area identity or the routing area identity. The HLR may return location information as a result of paging the subscriber.

The HLR may return location information as defined in TS 23.018 [9].

The HLR may return information based on the current service area identity, cell identity or the routing area identity as a result of paging the subscriber.

The CSE may interrogate the GMLC in order to obtain a particular subscriber's current location based on accurate geographical information as defined by LCS in TS 22.071 [8]. The GMLC has the possibility to reject any interrogation from any CSE.

*** End of Document ***

CHANGE REQUEST # 22.078 CR 0176 # rev - # Current version: 7.0.0

ME Radio Access Network Core Network X Proposed change affects: Title: Location Retrieval for MT call handling Source: 第 SA1 (Ericsson) Date: 第 01/072004 Category: Release: 第 Rel-7 Use one of the following categories: Use one of the following releases: F (correction) (GSM Phase 2) 2 A (corresponds to a correction in an earlier release) R96 (Release 1996) **B** (addition of feature), R97 (Release 1997) **C** (functional modification of feature) R98 (Release 1998) **D** (editorial modification) R99 (Release 1999) Rel-4 (Release 4) (Release 5) Rel-5 Rel-6 (Release 6)

Reason for change:

Section 22 requires refinement. The current text does not clearly specify that the HLR may obtain the subscriber's location information during Mobile Terminating (MT) call handling. This information is forwarded to the CSE for CAMEL handling of the MT call.

This mechanism whereby the HLR obtains the called subscriber's location during MT call handling exists as from CAMEL Phase 1 (GSM R96) onwards.

The mechanism for the HLR to obtain the called subscriber's location during MT call handling, is an HPLMN operator's option.

In addition, the CSE may at any time obtain the subscriber's location, by interrogating the HLR. That mechanism exists as form GSM R96 onwards. In 3GPP R99, said functionality is enhanced, with the possibility to page the subscriber in the VLR.

Summary of change: ₩

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- 2. Add a sentence to the second paragraph, indicating that the location information that the CSE may obtain from the HLR may be the result of paging; that is existing functionality (R96 onwards & R99 onwards).
- Remove the fourth paragraph, as the current wording is confusing. Details of the location information that may be returned by the HLR are already specified in 3GPP TS 23.018 and the removed information is not complete.

The revised section 22, including the changes proposed by the present CR, result in improved structure of that section. The second paragraph in revised section 22 pertains to the HLR's capability to obtain location information during MT call handling; the third paragraph in revised section 22 pertains to the CSE's capability to request location information from the HLR.

Consequences if not approved:

Service designers will not be properly informed about the HLR's capability to obtain subscriber location information during MT call handling.

Clauses affected:	第 22
Other specs affected:	Y N X Other core specifications Test specifications O&M Specifications
Other comments:	光

*** First Modification ***

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The HLR may return location information as defined in TS 23.018 [9].

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*** End of Document ***