Source: **TSG SA1**

Title: **CR to 02.94 on Introduction of the rôle of a " Follow Me service supervisor:"**

Document for: **Approval**

Agenda Item: **5.1.4**

Status	Spec	CR	Rev	Phase	Subject	CAT	Vers	New Vers	TSG Meeting	TSG Doc.No.	Pres
	22.094	A001		R99	Introduction of the rôle of a " Follow Me service supervisor:"	B	3.0.0	3.1.0	S1 #6	S1-991015	Yes

TSG-SA Working Group 1 meeting #6 **San Diego, USA, 29th Nov. – 3rd Dec. 1999**	*TSG S1 (99)1015* *Agenda: 5.2*

3G CHANGE REQUEST   *Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly.*

22.094 CR **001**	Current Version: 3.0.0
3G specification number ↑	↑ *CR number as allocated by 3G support team*

For submision to TSG   SA#6   for approval   **X**   *(only one box should*
list TSG meeting no. here ↑   for information   *be marked with an X)*

Form: 3G CR cover sheet, version 1.0   *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/3GCRF-xx.rtf*

Proposed change affects: USIM ☐   ME ☐   UTRAN ☐   Core Network **X**
(at least one should be marked with an X)

Source:	TSG SA1	**Date:**	24th Nov. 99

Subject:	Introduction of the rôle of a " Follow Me service supervisor:"

3G Work item:	Follow Me

Category: F Correction ☐
              A Corresponds to a correction in a 2G specification ☐
(only one category   B Addition of feature **X**
shall be marked   C Functional modification of feature ☐
with an X)   D Editorial modification ☐

Reason for change:	When an initiating subscriber has - by mistake - not erased his previous FM registration with respect to a remote party no other initiating subscriber is able to register FM with this remote party. The FM service supervisor can erase any previous registration to a remote party with an appropriate control procedure (forced erasure).

Clauses affected:	3.1, 4, 6.1, 6.4, 6.8

Other specs affected:
Other 3G core specifications	☐	→ List of CRs:	
Other 2G 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:	

3 Definitions, symbols and abbreviations

3.1 Definitions

initiating subscriber: the mobile subscriber which modifies the Follow Me data of the remote party.

remote party: _____ Is characterised by a number in E.164 format defined in the numbering plan of a PLMN operator. The Follow Me feature enables the initiating subscriber to modify the Follow Me data associated with this number. In general this number is not assigned to a subscriber. In particular cases the remote party is a GSM subscriber of the PLMN and the number denotes her basic MSISDN.

FM service supervisor: Is an initiating subscriber who is allowed to modify the Follow Me data of a remote party who has been registered to another initiating subscriber for the Follow Me application. The FM service supervisor shall be authorised by her network operator.

3.33.2 Abbreviations

4 Description

Follow Me enables an initiating mobile subscriber A to have control over the Follow Me data of a remote party B. Initiating Subscriber A shall be able to manipulate the Follow Me data of remote party B such that subsequent calls directed to remote party B are forwarded to initiating subscriber A.
The FM service supervisor shall be able to modify the Follow Me data of the remote party who has been registered to another initiating subscriber.

Initiating subscriber A needs to have FM provisioned by her service provider. In case remote party B is a subscriber she needs to have FM provisioned by her service provider too.

It remains in the responsibility of a FM provisioning service provider to confine

   a.) the range of remote parties for which a FM provisioned subscriber may become initiating subscriber

   b.) the range of potential initiating subscribers for a remote party.

The mobile subscriber who has been provisioned Follow Me is able to use the following control operations:

     Registration: (available to the initiating subscriber)

     Interrogation: (available to the initiating and remote party in case the remote party corresponds to a subscriber)

     Erasure: (available to the initiating and remote party in case the remote party corresponds to a subscriber)

   (There is no explicit activation or deactivation.)

The FM service supervisor is able to use the following control operations:

     Interrogation

     Erasure (forced erasure)

6 Normal procedures with successful outcome

6.1 Provision

Follow Me shall be provided after prior arrangement with the service provider. Follow Me will be provisioned for all Basic Services subscribed to and to which it is applicable.

NOTES:

- A Follow Me provision is required for the initiating subscriber and for the remote party in case the remote party corresponds to a subscriber.

- If Follow Me is provisioned for a mobile subscriber she may assume the role of an initiating subscriber and/or the role of a remote party.

- A Follow Me provisioning service provider may confine:

   a.) the range of remote parties for which a FM provisioned subscriber may become initiating subscriber

   b.) the range of potential initiating subscribers for a remote party.

   c.) the range of remote parties for which a FM provisioned subscriber may become FM service supervisor.

NOTE: (Health warning on security) The Follow Me feature is designed in such a way as to meet the security requirements of GSM-Railway operators. If the Follow Me feature is to be used by other operators - in particular if the remote party corresponds to a subscriber - operators are strongly advised to care for additional suitable security mechanisms to protect the remote party from potential harm by misuse of FM. These mechanisms are out of scope of this specification.
To support such mechanisms the possibility is foreseen to convey additional operator-specific information in the registration, interrogation and erasure procedures to the PLMN of the remote party. It should however be noted, that this is not a very secure mechanism. Operators should try to use existing security mechanisms where possible

6.4 Erasure

A previous FM registration can be erased in either of the following ways:

   a) The initiating subscriber can specifically erase her~~a~~ previous registration with an appropriate control procedure.

   b) In case the remote party corresponds to a subscriber the remote party

    can erase any previous registration with an appropriate control procedure.

   c.) The FM service supervisor can erase any previous registration to any remote party with an appropriate control procedure (forced erasure).

   ~~EDITOR's Note: The possibility for erasure by third parties is FFS. It may be necessary to have the following:~~
   ~~c.) A third party subscriber can erase any previous registration to any remote party with an appropriate control procedure. These third parties shall be authorised by the network operator.~~

The subscriber who initiates the FM erase request shall be informed of the outcome of the request by the network.

As an operator's option additional information (such as passwords) for erasure may be required from the subscriber. The registration procedure shall transport this information from the subscriber to the network of the remote party. This information shall be coded as a USSD string with a length not exceeding 30 characters. The content of this information and the use of it are out of scope of this specification.

6.8   Interrogation

An initiating subscriber (also the FM service supervisor) shall be able to interrogate the Follow Me data of any remote party, for which she is authorised to become initiating subscriber.

In case the remote party corresponds to a subscriber the remote party shall be able to interrogate her own Follow Me data stored in the network.

The network shall return the basic MSISDN of the initiating subscriber for which the remote party is registered to Follow Me.

As an operator's option additional information (such as passwords) for interrogation may be required from the subscriber. The registration procedure shall transport this information from the subscriber to the network of the remote party. This information shall be coded as a USSD string with a length not exceeding 30 characters. The content of this information and the use of it are out of scope of this specification.