

Source: SA1

Title: CR to 22.011 on Administrative restriction of subscribers' access
(Rel-6)

Document for: Approval

Agenda Item: 7.1.3

Meet	Doc. No.	Spec	CR	Rev	Phase	Cat	Subject	Vers	New Vers	Doc. SA1
SP-22	SP-030695	22.011	053	-	Rel-6	B	Administrative restriction of subscribers' access	6.1.0	6.2.0	S1-031234

CR-Form-v7

CHANGE REQUEST

⌘ **22.011 CR 053** ⌘ 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

Title:	⌘ Administrative restriction of subscribers' access				
Source:	⌘ SA1 (Ericsson)				
Work item code:	⌘ TEI	Date:	⌘ 29/10/2003		
Category:	⌘ B	Release:	⌘ Rel-6		
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:		
	F (correction)		2 (GSM Phase 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)		
	Detailed explanations of the above categories can be found in 3GPP TR 21.900 .		Rel-4 (Release 4)		
			Rel-5 (Release 5)		
			Rel-6 (Release 6)		

Reason for change: ⌘ For combined GERAN/UTRAN networks it can be important to be able to control the distribution of subscribers between the GERAN and UTRAN respectively.

To make this happen it would be beneficial to be able to mark individual subscribers, in their subscription information, as being "GERAN" or "UTRAN" subscribers respectively. This would also enable a better control of the QoS offered to different subscriber groups and to differentiate incoming roamers' access to RATs in combined networks.

With the current specifications it is possible to use the Regional Subscription data to restrict a subscriber's access to selected Location/Routing Areas.

The Regional Subscription data can be thought of as primarily intended to be used for geographical limitations, but there is in principle nothing stopping its use also for other purposes, e.g., to limit a subscriber's access to Location/Routing Areas where the network operator has chosen to use only certain RATs, like GERAN or UTRAN. In this way the Regional Subscription data could be used to limit a subscriber's access to a certain RAT.

However, trying to combine both a geographical and a RAT based limitation in one and the same subscription data parameter could lead to a very complex administrative task, both to fill in the subscription data and to decide how the parameter values should be translated into allowed/forbidden Location/Routing Areas.

	It is therefore proposed to introduce a new “dimension” of restricting a subscriber’s access to the system. It is also proposed to base this restriction on categories of Location/Routing Areas
Summary of change: ⌘	Introduction of a new administrative restriction of subscribers’ access to the system. This administrative restriction would indicate, per subscriber, allowed categories of Location/Routing Areas and it would be used to control the access to such categories of Location/Routing Areas in the home environment and in visited networks accordingly.
Consequences if not approved: ⌘	It could be a very complex administrative task to use subscription information for restricting subscribers’ access to RATs, which would be beneficial in combined networks to be able to control the distribution of subscribers between the RATs, to enable a better control of the QoS offered to different subscriber groups and to differentiate incoming roamers’ access to RATs.

Clauses affected: ⌘	New chapter 7										
Other specs affected:	<table border="1"><tr><td>Y</td><td>N</td></tr><tr><td>Y</td><td></td></tr><tr><td>?</td><td></td></tr><tr><td>?</td><td></td></tr></table>	Y	N	Y		?		?		Other core specifications	⌘
	Y	N									
	Y										
?											
?											
	Test specifications										
		O&M Specifications									
Other comments: ⌘											

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.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.

7 Administrative restriction of subscribers' access

Means shall be standardised for an administrative restriction of subscribers' access without the need of having explicit Location/Routing Area identities in the individual subscription profiles.

To achieve this it shall be possible to indicate per subscriber, in subscription data, allowed categories of Location/Routing Areas. It shall be possible to use this subscription information to restrict subscribers' access to categories of Location/Routing Areas in serving networks accordingly.

As a minimum, the following categories shall be available:

a) GERAN ONLY

b) UTRAN ONLY

In case of roaming the detailed handling of these categories of Location/Routing Areas may be subject to bilateral agreements.

This administrative restriction of subscribers' access shall be an optional feature.