Technical Specification Group Services and System Aspects **TSG**: Meeting #17, Biarritz, France, 9-12 September 2002

TSGS#17(02)0547

Source: SA1

Title: Release 99/4/5 CRs to 22.011 on correction to periodic PLMN

scan

Document for: Approval

Agenda Item: 7.1.3

SA Doc	Spec	CR	Rev	Phase	Cat	Subject	Old Vers	New Vers	SA1 Doc
SP-020547	22.011	047		R99	F	CR to 22.011 Rel 99 - correction to periodic PLMN	3.7.0		S1-021824
						scan			
SP-020547	22.011	048		Rel-4	Α	CR to 22.011 Rel 4 - correction to periodic PLMN scan	4.7.0	4.8.0	S1-021825
SP-020547	22.011	049		Rel-5	Α	CR to 22.011 Rel 5 - correction to periodic PLMN scan	5.0.0	5.1.0	S1-021826

S1-021824 Agenda Item:

CHANGE REQUEST													
*		22.01	1 CR	047	≋rev	-	¥	Current vers	ion: 3.	7.0	ж		
For HE	LP on u	sing this i	orm, see k	oottom of th	is page or	look a	at the	e pop-up text	over the	₩ syn	nbols.		
Proposed change affects: UICC apps # ME X Radio Access Network Core Network													
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Titlo	90	Editorio	Learractio	a to timor to	roturn to	прі м	INI						
	Title:												
Source: 第 SA1 (T-Mobile)													
Work item	code: ૠ	TEI						Date: ₩	25/07/2	2002			
Category:	ж	F						Release: #	R99				
Reason for	change	A (c B (a C (f D (e Detailed o be found E: # Tw 1. Th PL me pri	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) Find the above categories can and in 3GPP TR 21.900. Two editorial changes are proposed in this CR: 1. replacing "any of" with "all" in the first paragraph of 3.2.2.5 The current text explaining the interaction between the priority of an equivalent PLMN and the priority of a selected PLMN has been wrongly interpreted as meaning that as soon as the UE finds a PLMN in the equivalent PLMN with lowe priority than the selected PLMN, a rescan is performed. The intention of the text is instead that the UE checks the prioritity of ALL the PLMNs in the equivalent								valent as vith lower the text		
PLMN list. It is then proposed to change the text to remove this potential ambig 2. section title 3.2.2.5 renamed to "Timer for return to higher priority The new title is a generalisation of the existing one and reflects bette of the section.									y PLM	IN"			
Summary o	of chang							e first paragra or return to hig			MNI"		
										•			
Consequei not approv		ind Le	orrect imp	lementation	n. reflecting			er priority PLM			_		
Clauses af	fected:	₩ 3.2	2.2.5										
		Υ											

Other specs	\mathfrak{H}				23.122		
affected:	X			Test specifications O&M Specifications	34.123		
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.

3.2.2.5 Timer for return to HPLMNPeriodic Network selection attempts

A UE in Automatic Mode shall make periodic attempts to look for a higher priority PLMN of the same country as the currently registered PLMN. For the ranking of PLMNs the UE shall use the order used in subclause 3.2.2.2. In the case that the UE has stored a list of equivalent PLMNs, the UE shall only select a PLMN if it has a higher priority than any ofall the PLMNs, in the list of equivalent PLMNs, which are of the same country as the currently registered PLMN

NOTE: In the context of this TS, the term country is to be interpreted not as a political entity but as a single Mobile Country Code (MCC). For instance the USA has multiple MCC. The USA case is in fact treated as an exception in the 3GPP specifications. For all other countries, multiple MCCs may be used, however the specifications have not taken this into account and there could be adverse effects such as the UE being unable to detect that multiple MCCs are within the same country.

The interval between attempts shall be stored in the SIM/USIM. Only the service provider shall be able to set the timer value. The timer shall have a value between 6 minutes and 8 hours, with a step size of 6 minutes. One value shall be designated to indicate that no periodic attempts shall be made.

In the absence of a permitted value in the SIM/USIM, or the SIM/USIM is phase 1 and therefore does not contain the datafield, then a default value of 60 minutes, shall be used by the UE.

NOTE: Use of values less than 60 minutes may result in excessive ME battery drain.

CHANGE REQUEST											
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Work item code: 3		,	,					Date: 8	P 25/07	7/2002	
Work item code: a	6 I E							Date: a	6 <u>25/07</u>	/2002	
Category: # A 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. Release: # REL-4 Use one of the following release 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)											eases:
Reason for chang	e: #	Repl The PLM mea prior is ins	acing " current te N and the ning that ity than the stead that N list.	ext explaining priority of as soon as ne selected the UE ch	with "all ng the inte a selected the UE fir PLMN, a ecks the p	" in raction of PLM ands a resca	the fi on be MN ha PLW an is ity of	rst paragrap rst paragrap etween the p as been wro IN in the equ performed. ALL the PL ove this pote	riority of ongly inte uivalent I The inter MNs in t	an equi erpreted PLMN w ntion of he equiv	as vith lower the text
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Consequences if not approved:	*		•	ion of the re ementation	•	nt for	highe	er priority PL	MN sca	n leadin	g to
Clauses affected:	ж	3.2.2	2.5								
Other specs affected:	ж	Y N X X	Other co	ore specific ecifications pecification		¥	23.1 34.1				
Other comments:	ж										

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3.2.2.5 Periodic network selection attempts

A UE in Automatic Mode shall make periodic attempts to look for a higher priority PLMN of the same country as the currently received PLMN. For the ranking of PLMNs the UE shall use the order used in subclause 3.2.2.2. In the case that the UE has stored a list of equivalent PLMNs, the UE shall only select a PLMN if it has a higher priority than all any of the PLMNs, in the list of equivalent PLMNs, which are of the same country as the currently registered PLMN.

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The UE shall only make reselection attempts while in idle mode for circuit services.

The interval between attempts shall be stored in the SIM/USIM. Only the service provider shall be able to select for which of the previous situations, periodic network selection shall be attempted and to set the interval, which shall be between 6 minutes and 8 hours, with a step size of 6 minutes. One value shall be designated to indicate that no periodic attempts shall be made.

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CHANGE REQUEST											
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Proposed change	аттес	ts:	UICC ap	os#	MEX	Rad	aio A	ccess Netwo	rK	Core Ne	etwork
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Reason for chang	ю· Ж	The	following	editorial c	hange is n	ronos	ed ir	this CR			
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				t the UE ch	necks the p	riorit	ity of	ALL the PLN	/INs ir	n the equi	valent
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Summary of chan	ge:∺	Repla	acing "a	any of" w	rith "all	" in tl	ne fir	st paragraph	of 3.2	2.2.5	
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Other specs	Ж	X		ore specifi		\mathbb{H}	23.1				
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