TSGS#12(01)0244

Technical Specification Group Services and System Aspects Meeting #12, Stockholm, Sweden, 18-21 June 2001

Source: SA1

Title: CRs to 22.011 R99 and Rel-4 on Background Scanning, Partial

PLMN Access and Periodic Network selection

Document for: Approval

Agenda Item: 7.1.3

Spec	CR	Rev	Phase	Cat	Subject	Versio n- Curren	Versio n-New	Doc-2nd- Level
22.011	024		R99	F	Partial PLMN access restriction	3.4.0	3.5.0	S1-010494
22.011	025		Rel-4	Α	Partial PLMN access restriction	4.3.0	4.4.0	S1-010495
22.011	026		R99	F	Periodic Network Selection Attempt improvement	3.4.0	3.5.0	S1-010513
22.011	027		Rel-4	Α	Periodic Network Selection Attempt improvement	4.3.0	4.4.0	S1-010514
22.011	028		R99	F	Default value for background scanning timer	3.4.0	3.5.0	S1-010516
22.011	029		Rel-4	Α	Default value for background scanning timer	4.3.0	4.4.0	S1-010517

TSG S1 (01)494 Agenda Item:a.b

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*	22	.011	CR	024	1 8	¥ rev	-	ж	Current ve	rsion:	3.4.0	*
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Proposed change	affec	ts: X	(U)SI	M X	ME/U	JE X	Rad	dio Ad	ccess Netwo	ork	Core N	letwork X
Title: 第	Pai	tial PL	MN acc	ess res	triction							
Source: #	SA	1										
Work item code: ₩									Date:	 11	– May –	2001
Category: ж	F								Release:	₩ <mark>R9</mark>	9	
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		suita	ble cell i	n the sa	ame Pl	LMN in	stead	of pe	erforming a	PLMN	search.	
Consequences if not approved:	Ж		I not be tity for th						s to a PLMN logies.	l using	the sam	e PLMN
Clauses affected:	ж	3.2.2	2.4.2									
Other specs affected:	*	O Te	ther core est speci &M Spec	ification	S	s S	€					
Other comments:	\mathfrak{H}											

How to create CRs using this form:

- 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://www.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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.

3.2.2.4.2 "Partial" and "temporary" PLMN restrictions

When a registration attempt by the UE is rejected by a network due to a "partial" or a "temporary" PLMN restriction, the UE shall perform one of the following procedures determined by the indication in the location update reject cause sent by the network (see TS 23.122 [3]):

- i) The UE shall store the location area identity in the list of "forbidden LAs for regional provision of service" and shall enter the limited service state and remain in that state until it moves to a cell in a location area where service is allowed.
- ii) The UE shall store the location area identity in the list of "forbidden LAs for roaming" and shall use one of the following procedures according to the PLMN selection Mode:
 - A) Automatic network selection mode:

The procedure of 3.2.2.2. A).

B) Manual network selection mode:

The procedure of 3.2.2.2.B).

iii) The UE shall store the location area identity in the list of "forbidden LAs for roaming" and shall search for a suitable cell in the same PLMN. (Note: A suitable cell will belong to a different LA which is not in the "forbidden LAs for roaming").

3.2.2.4.3 PLMN restrictions for PS services

TSG S1 (01)495 Agenda Item:a.b

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Summary of chang	ye. m	in ca	se of fail	ed locat	ion upo	late. T	he Ul	E sha	Ill in this case	e sea	rch for a c	
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Clauses affected:	ж	3.2.2	.4.2									
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 - A) Automatic network selection mode:

The procedure of 3.2.2.2. A).

B) Manual network selection mode:

The procedure of 3.2.2.2.B).

iii) The UE shall store the location area identity in the list of "forbidden LAs for roaming" and shall search for a suitable cell in the same PLMN. (Note: A suitable cell will belong to a different LA which is not in the "forbidden LAs for roaming").

3.2.2.4.3 PLMN restrictions for PS services

TSG S1 (01)513 Agenda Item:a.b

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Summary of chang	ge:♯		tomatic in the servi			nall pe	riodic	ally s	scan for I	PLM	Ns of a	higher	priority
Consequences if not approved:	ж	Subs	cribers v	will conti	nue to r	eceive	e a de	egrad	led servi	ce.			
Clauses affected:	ж	Sect	ion 3.2.2	.5									
Other specs affected:	*	Te	ther core est specif &M Spec	fications	3	ж							
Other comments:	\mathfrak{R}												

How to create CRs using this form:

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- downloaded from the 3GPP server under ftp://www.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 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 Periodic Network selection attempt

If the UE in Automatic Mode has selected and registered on a VPLMN of its home country and the HPLMN is not included in the group of equivalent PLMNs, it shall make periodic attempts to return to its HPLMN. 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.

The UE shall only select a PLMN if it has a higher priority than any of the PLMNs, in the list of equivalent PLMNs, which are of the same country as the currently registered received PLMN. For the ranking of PLMNs the UE shall use the order used in subclause 3.2.2.2 (i.e. HPLMN, followed by PLMNs in the "User Controlled PLMN Selector", followed by PLMNs in the "Operator Controlled PLMN Selector").

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 30 minutes, shall be used by the UE.

NOTE: Use of values less than 30 minutes may result in excessive ME battery drain.

3.2.2.6 Investigation PLMN Scan

TSG S1 (01)514 Agenda Item:a.b

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Summary of chang	ge: ૠ		tomatic in the servi			all pe	riodica	ally s	can for Pl	LMN	ls of a highe	r priority
Consequences if not approved:	\mathfrak{H}	Subs	cribers v	will conti	nue to r	eceive	a de	grad	ed service	э.		
Clauses affected:	ж	Secti	on 3.2.2	.5								
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3.2.2.5 Periodic network selection attempts

The UE shall make periodic network selection attempts in one or both of the following situations:

- □If the UE is in Automatic Mode and has selected and registered on a VPLMN of its home country and the HPLMN is not included in the group of equivalent PLMNs, it shall make periodic attempts to return to its HPLMN.
- □If the UE is in Automatic Mode and has selected and registered on a VPLMN which is neither the HPLMN nor one of the PLMNs contained either in the "Operator Controlled PLMN Selector" data field or in the "User Controlled PLMN Selector", it shall make periodic attempts to return to one of the PLMNs of the same country contained either in the "Operator Controlled PLMN Selector" data field or in in the "User Controlled PLMN Selector". In case of GPRS terminals, the UE shall only make reselection attempts while in idle or stand by mode.

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.

The UE shall only select a PLMN if it has a higher priority than any of the PLMNs, in the list of equivalent PLMNs, which are of the same country as the currently registered received PLMN. For the ranking of PLMNs the UE shall use the order used in subclause 3.2.2.2 (i.e. HPLMN, followed by PLMNs in the "User Controlled PLMN Selector", followed by PLMNs in the "Operator Controlled PLMN Selector").

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.

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 30 minutes, shall be used by the UE.

NOTE: Use of values less than 30 minutes may result in excessive ME battery drain.

TSG S1 (01)516 Agenda Item:a.b

												CR-Form-v3
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Summary of chang	ge: ૠ			alue befo 30 to 60			a pei	riodic	network sel	ectio	n attempt	is
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Clauses affected:	\mathfrak{H}	Secti	ion 3.2.2	.5								
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3.2.2.5 Periodic network selection attempts

The UE shall make periodic network selection attempts in one or both of the following situations:

- If the UE is in Automatic Mode and has selected and registered on a VPLMN of its home country and the HPLMN is not included in the group of equivalent PLMNs, it shall make periodic attempts to return to its HPLMN.
- If the UE is in Automatic Mode and has selected and registered on a VPLMN which is neither the HPLMN nor one of the PLMNs contained either in the "Operator Controlled PLMN Selector" data field or in the "User Controlled PLMN Selector", it shall make periodic attempts to return to one of the PLMNs of the same country contained either in the "Operator Controlled PLMN Selector" data field or in in the "User Controlled PLMN Selector". In case of GPRS terminals, the UE shall only make reselection attempts while in idle or stand-by mode.

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.

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 30-60 minutes, shall be used by the UE.

NOTE: Use of values less than 30-60 minutes may result in excessive ME battery drain.

TSG S1 (01)517 Agenda Item:a.b

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Title:	Def	ault tir	ner valu	e for per	iodic r	etwork	sele	ction	attempt			
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Summary of chang	ye: ₩		default v ged fron				a pe	riodio	c network se	lectio	n attempt	is
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NOTE: Use of values less than 30-60 minutes may result in excessive ME battery drain.