Technical Specification Group Services and System Aspects Meeting #25, Palm Springs, USA

TSGS#25(04)0513

Source:	**SA1**
Title:	**Revised Multi system terminal behaviour WID**
Document for:	**Approval**
Agenda Item:	**7.1.3**

This document replaces SP-040306 which was approved at SP-24.

Work Item Description

Title: Behaviour of multi system ~~UEs~~terminals

1 3GPP Work Area

X	Radio Access
X	Core Network
X	Services

2 Linked work items

none

3 Justification

Currently it is not standardised ~~on~~ how a multi system ~~mobile station~~terminal should perform system selection.~~, network operator selection (PLMN selection in 3GPP terms) between the supported systems.~~ Multi system terminals are appearing on the market.

4 Objective

It is proposed that SA1 should study the best way to document the behaviour of a multi system ~~mobile station~~terminal that supports both 3GPP and non-3GPP systems. This will be documented in a new Technical Report. The distinction between 3GPP internal PLMN selection requirements and multi system selection requirements ~~between 3GPP and other systems~~ should be kept clearly visible ~~for the implementors~~.

It should be identified clearly which requirements are mandatory and which can be left implementation specific. Standardization should take account of interoperability and network protection. The intention is to ensure that the multi system operation does not lead to non 3GPP-compliant behaviour ~~by the UE~~by the terminal. ~~Standardization should take account of interoperability.~~

Particular issues to be handled include, but are not restricted to:

- It should be studied whether the system selection or PLMN selection should take higher priority in a multi system ~~mobile~~terminal. Related ~~with~~ to this, ~~also~~ the criteria for system change would need to be defined. This could take the form of a

background scan of higher priority systems. If this is supported~~, then what is~~ the interaction between the user's and the operator's preferences should be studied. The existing PLMN selector lists and HPLMN information could be re-used in system selection.

- It should also be considered whether automatic or manual system selection mode, or both, needs to be supported. The study will identify different methods of system selection and their impact on 3GPP specifications.

- If any priority lists for user's preferences, supported systems or network operators are needed, it should be studied if these should reside in the ~~phone~~ terminal memory or in the smartcard. When dealing with the 3GPP-compliant part of the ~~UE~~terminal, we can safely assume the ~~(U)SIM~~ UICC to be available. ~~Also the existing PLMN selector lists and HPLMN information could be re-used in system selection.~~

- Testing of multi-mode terminals, in particular the mechanisms for system selection will be considered. The study will consider what needs to be tested and by whom.

Other groups working in this area will be consulted.

5 Service Aspects

~~The work item proposes to study and identify requirements for system selection for multi system mobile station. The~~ This work item ~~has no impact on the services offered by different system~~will consider the impact of changing system on the end services provided to the user.~~s.~~

6 MMI-Aspects

Implications on MMI, due to required interaction by the user when changing system, will be considered. ~~Changes to the traditional Man Machine Interface have to be considered, when a multi system mobile station needs to select a particular system, when multiple choices are available.~~

7 Charging Aspects

Different charging principles may apply when operating in different systems ~~modes~~. Therefore implications shall be studied together with SA5.

8 Security Aspects

Security Aspects shall be addressed, as different systems may rely on different security concepts. This may be done by input from SA3.

9 Impacts

Affects:	UICC apps	ME	AN	CN	Others
Yes		X	X	X	X
No	~~X~~				

Don't know	X				

10 Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
TR 22.XXX	TR on the Behaviour of Multi System ~~UEs~~Terminals	SA1	SA3, SA5, T3	#28~~6~~	#29~~7~~	

Affected existing specifications				
Spec No.	CR	Subject	Approved at plenary#	Comments
				TBD

11 Work item rapporteurs

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12 Work item leadership

3GPP TSG SA1

13 Supporting Companies

Nokia, Qualcomm, Research In Motion, Siemens, T-Mobile, Samsung, Motorola, Axalto, Lucent, Orange.

14 Classification of the WI (if known)

X	Feature (go to 14a)
	Building Block (go to 14b)
	Work Task (go to 14c)

14a The WI is a Feature: List of building blocks under this feature

none

14b The WI is a Building Block: parent Feature

(one Work Item identified as a feature)

14c The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)