Technical Specification Group Services and System Aspects   **TSGS#22(04) 0089**
Meeting #22, Maui, Hawaii, USA, 15-18 December 2003

Source:	**SA1**
Title:	**CRs to 22.011 on System selection and Priority usage of UICC parameters for I-WLANs (Rel-6)**
Document for:	**Approval**
Agenda Item:	**7.1.3**

Meeting	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers. Current	Vers New	SA1 Doc
SP-23	SP-040089	22.011	055	-	Rel-6	C	System selection among multiple I-WLANs	6.2.0	6.3.0	S1-040236
SP-23	SP-040089	22.011	056	-	Rel-6	F	Priority usage of UICC parameters for I-WLAN	6.2.0	6.3.0	S1-040257

CR-Form-v7

CHANGE REQUEST

⌘ **22.011 CR 055** ⌘**rev** **-** ⌘ Current version: **6.2.0** ⌘

*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 **X** Radio Access Network ☐ Core Network ☐

Title: ⌘	System selection among multiple I-WLANs	
Source: ⌘	SA1 (Research in Motion, Telecom Italia, Orange, Lucent, Siemens, Nortel, Alcatel Ericsson, T-Mobile US)	
Work item code: ⌘ WLAN	***Date:*** ⌘	22/12/2003

Category: ⌘ **C**		***Release:*** ⌘ Rel-6
	Use one of the following categories:	*Use one 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: ⌘	Eliminate ambiguity in system selection by the UE, by clarifying that home and preferred PLMNs shall be identified.
Summary of change: ⌘	Provide unambiguous definition of system selection when there are multiple I-WLANs to choose from to ensure that home or preferred PLMNs can be selected if available..
Consequences if not approved: ⌘	The UE may not find and select the home or a preferred PLMN even if available.

Clauses affected: ⌘	6.1

	Y	N		
Other specs affected: ⌘	X		Other core specifications ⌘	TS 23.234
		X	Test specifications	
		X	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.

6 Support of 3GPP - WLAN Interworking

The following section is only applicable to the support of WLAN Interworking to 3GPP Systems.

6.1 Network selection

The UE shall support both manual and automatic network selection mechanisms (modes) as standardized.

The UE shall use the last network selection mode used, as the default mode, at every switch-on.

The user shall be given the opportunity to change the network selection mode at any time.

When selecting a PLMN that is accessed via an interworked WLAN the UE shall be able to determine if the home or preferred PLMNs are available. The I-WLAN and PLMN selection shall adhere to operator and end user preferences using similar procedures as for Network Selection without WLAN Interworking. This set of preferences may be different from the preferences used for direct 3GPP access., this selection shall be based on operator and end user preferences. This set of preferences may be different from the preferences used for direct 3GPP access.The UE shall select between multiple WLANs in the same coverage area based on the operator preferences and user preferences by using similar procedures as for Network Selection without WLAN Interworking.

In manual network selection the user shall be able to request a list of available PLMNs via interworked WLANs.

NOTE 1: The 3GPP operator may have agreements with multiple I-WLANs in the area and has preference over which WLAN to connect to based on the services supported.

NOTE 2: The adaptation of the Network Selection procedures to the WLAN Interworking environment should take into account performance criteria (e.g. power consumption, network load).

6.2 Dual mode 3GPP / WLAN devices

The UE shall select between the available 3GPP systems and the WLANs by using similar procedures as for Network Selection without WLAN Interworking.

NOTE 1: The 3GPP operator may have agreements with multiple WLANs in the area and has preference over which WLAN to connect to based on the services supported.

CR-Form-v7

CHANGE REQUEST

⌘ **22.011** CR **056** ⌘**rev** **-** ⌘ Current version: **6.2.0** ⌘

*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⌘ **X**	ME **X**	Radio Access Network		Core Network	

Title:	⌘	Priority usage of UICC parameters for I-WLAN
Source:	⌘	SA1 (Axalto, TIM, Alcatel, Gemplus, Giesecke & Devrient, Siemens)

Work item code:⌘	WLAN		***Date:*** ⌘	16/01/2004

Category:	⌘ **F**	***Release:*** ⌘	REL-6

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.

Use *one* of the following releases:
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)

Reason for change: ⌘	Parameters stored in the UICC shall be taken into account by the WLAN UE for WLAN Selection, WLAN access authentication and PLMN selection if they are available.
Summary of change:⌘	Explicit requirements to mandate the usage of parameters in the UICC for I-WLAN. In particular, it is proposed that WLAN UE shall use these parameters if they are available in the UICC (e.g. I-WLAN service activated in the USIM service table).
Consequences if not approved: ⌘	Operators and user preferences are not taken into account for network selection in I-WLAN access.

Clauses affected:	⌘	6.X (new)

		Y	**N**		
Other specs affected:	⌘	**X**		Other core specifications	⌘ TS 31.102
			X	Test specifications	
			X	O&M Specifications	

Other comments:	⌘	

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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.

6 Support of 3GPP - WLAN Interworking

The following section is only applicable to the support of WLAN Interworking to 3GPP Systems.

[…]

6.X I-WLAN access parameters

I-WLAN access parameters include operator and user preferences on network selection.

It shall be possible to store these parameters on the USIM.

For I-WLAN access and PLMN selection purposes, the WLAN UE shall by default use the I-WLAN access parameters stored in the UICC (if they are available).