

Source: SA1
Title: CRs to TS 22.011 and 22.041 on WLAN (Rel-6)
Document for: Approval
Agenda Item: 7.1.3

CR-Form-v7
CHANGE REQUEST
⌘ 22.011 CR 051 ⌘ rev - ⌘ Current version: 6.0.0 ⌘

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:	⌘ Network Selection requirements for WLAN Interworking		
Source:	⌘ SA1 WLAN SWG		
Work item code:	⌘ WLAN	Date:	⌘ 08/04/2003
Category:	⌘ B	Release:	⌘ Rel-6
	Use <u>one</u> 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 <u>one</u> 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:	⌘ Missing Network Selection requirements for WLAN Interworking		
Summary of change:	⌘ Adding Network Selection requirements for WLAN Interworking		
Consequences if not approved:	⌘ Missing functionality in Release 6		

Clauses affected:	⌘ New clause 6										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;">X</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;"></td> </tr> </table> Other core specifications	Y	N	X						⌘ 23.234	
Y	N										
X											
	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.

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, 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.

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.

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	
⌘ 22.041 CR 009 ⌘ rev - ⌘ Current version: 6.0.0 ⌘	

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:	⌘ ODB in WLAN - Requirement		
Source:	⌘ WLAN SWG		
Work item code:	⌘ ODB	Date:	⌘ 07/04/2003
Category:	⌘ B	Release:	⌘ Rel-6
	<i>Use one of the following categories:</i> 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 .		<i>Use one of the following releases:</i> 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:	⌘ ODB provides a level of protection for network operators against fraudulent users and also the capability to selectively bar subscribers from services. With WLAN interworking being used to access services the same level of control should be made available to the operators for handling subscribers connecting over WLAN. Currently this is not required.
Summary of change:	⌘ Place a requirement for ODB capabilities to apply to WLAN connected subscribers
Consequences if not approved:	⌘ Potential fraudulent use of services accessed over WLAN

Clauses affected:	⌘ Clause 5										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="text-align: center;">Y</td> <td style="text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘
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Other comments:	⌘										

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5.2 Packet Oriented Services

Packet Oriented Services, particularly data services, are different in nature to Circuit Oriented Services, and therefore have different requirements for Operator Determined Barring.

As described in the following categories, the Service Provider may at any time activate this feature and this shall terminate any relevant services in progress, and bar future requests for service covered by the barring category:

- It shall be possible to bar subscribers completely from the Packet Oriented Services.
- It shall be possible to bar a subscriber from requesting Packet Oriented Services from access points that are within the HPLMN whilst the subscriber is roaming in a VPLMN.
- It shall be possible to bar a subscriber from requesting Packet Oriented Services from access points that are within the roamed to VPLMN.

The term 'access point' is used to indicate the GGSN or part of the GGSN that is specified by a particular APN.

5.3 Interworking WLAN

Access to services via an Interworking WLAN is different in nature to Circuit and other 3GPP packet oriented services, and therefore has different requirements for Operator Determined Barring.

As described in the following categories, the Service Provider may at any time activate this feature and this shall terminate any relevant services in progress, and bar future requests for service covered by the barring category:

- It shall be possible to bar subscribers attached via an Interworking WLAN completely from the interworked service capabilities.
- It shall be possible to bar a subscriber from requesting interworking through access points that are within the HPLMN whilst the subscriber is WLAN connected via a VPLMN

The term 'access point' is used to indicate the GGSN or part of the GGSN that is specified by a particular APN.