Technical Specification Group Services and System Aspects **TSGS#25(04)0506** Meeting #25, Palm Springs, USA**

Source: SA1

Title: Various CRs to 22.234 (Rel-6)

Document for: Approval

Agenda Item: 7.1.3

Meeti	SA Doc	TS No.	CR No	Rev	Rel	Cat	Subject	Vers.	Vers	SA1 Doc
ng							C		New	
								nt		
SP-25	SP-040506	22.234	005	-	Rel-6	F	Clarification to WLAN PLMN Selection	6.1.0	6.2.0	S1-040710
SP-25	SP-040506	22.234	006	-	Rel-6	F	Use of the SSID List at WLAN PLMN	6.1.0	6.2.0	S1-040711
							Selection			
SP-25	SP-040506	22.234	007	-	Rel-6	F		6.1.0	6.2.0	S1-040712
							and WLANs clause 5.1.7.1			
SP-25	SP-040506	22.234	800	-	Rel-6	F	Clarification of the relationship between	6.1.0	6.2.0	S1-040715
							different levels of WLAN interworking			
SP-25	SP-040506	22.234	009	-	Rel-6	F	Clarification on the WLAN identities lists for	6.1.0	6.2.0	S1-040726
							I-WLAN selection			

TSG-SA WG1 #25 S1-040710

Montreal, Canada, 28 June - 02 July 2004

Agenda Item:

CHANGE REQUEST												
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For <u>HELP</u> 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												
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	F E C Detail	e 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) ailed explanations of the above categories can ound in 3GPP TR 21.900.						Use <u>one</u> of the following release 2 (GSM Phase 2) se) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)				
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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 \(\mathcal{H} \) contain pop-up help information about the field that they are closest to.
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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.

6.1.1.1 PLMN selection procedures

General

For the purpose of selecting a PLMN two lists may be present in the UICC: the "User Controlled PLMN Selector list for I-WLAN" and the "Operator Controlled PLMN Selector list for I-WLAN". It is not mandatory for the UICC to support these lists, however if the "Operator Controlled PLMN Selector list for I-WLAN" is supported then the "User Controlled PLMN Selector list for I-WLAN" shall also be present. Both the lists contain the preferred PLMNs for I-WLAN in priority order, and the User Controlled PLMN Selector list for I-WLAN has higher priority than the Operator Controlled PLMN Selector list for I-WLAN.

The purpose of the procedure is to enable the <u>WLAN</u> UE to find an I-WLAN, however, in case no PLMN is found to be supported by any of the available WLANs, the behaviour of the UE is not specified.

For the purpose of selecting the preferred I-WLAN in case multiple I-WLANs can support the connection to the desired PLMN and for optimising the PLMN selection, the UICC may contain a WLAN identities' preference lists provisioned by the operator.

A) Automatic selection mode

In the automatic mode the WLAN UE shall perform the following procedure:

- 1. For each of the WLANs available the <u>WLAN</u> UE shall attempt to discover the PLMNs available via the particular WLAN. If the <u>WLAN</u> UE receives a list of available PLMNs, then
 - 1a) If the HPLMN is found then the procedure is stopped and the HPLMN is selected.
 - 1b) If the HPLMN is not found, the UE creates a list of PLMNs accessible over the particular WLAN
- 2. Among all the PLMNs obtained in step 1b), select a PLMN following this order:
 - i) PLMNs contained in the "[0] User Controlled PLMN Selector list for I-WLAN" data file in the USIM in priority order, if the list is available;
 - ii) PLMNs contained in the "Operator Controlled PLMN Selector list for I-WLAN" data file in the USIM in priority order, if the list is available;
 - iii) PLMNs contained in the "User Controlled PLMN Selector list with access technology", if available;
 - iv) PLMNs contained in the "Operator Controlled PLMN Selector list with access technology", if available;
 - v) PLMNs contained in the optional "[0]User Controlled PLMN Selector list for I-WLAN " in the ME in priority order, if the list is available;
 - vi) PLMNs contained in the optional "Operator Controlled PLMN Selector list for I-WLAN" in the ME in priority order, if the list is available;
 - vii) any other PLMN not included in the lists (randomly)
- 3. Attempt association with the <u>I-WLAN AP-providing connection</u> to the PLMN selected in step 2 and attempt authentication with the selected PLMN.

B) Manual selection mode

In manual selection mode the <u>WLAN</u> UE shall perform the following procedure:

- 1. For each of the available WLANs the <u>WLAN</u> UE shall attempt to discover the PLMNs available via the particular WLAN.
- 2. If the <u>WLAN</u> UE receives a list of available PLMNs, then the <u>WLAN</u> UE presents the available PLMNs in the following order:

- i) HPLMN;
- ii) PLMNs contained in the "[0] User Controlled PLMN Selector list for I-WLAN " data file in the USIM in priority order, if the list is available;
- iii) PLMNs contained in the "Operator Controlled PLMN Selector list for I-WLAN" data file in the USIM in priority order, if the list is available;
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- viii) any other PLMN not included in the lists (in random order)

In case more than one <u>I-WLAN AP</u>-gives access to the same PLMN, an indication of the <u>I-WLAN</u> identity should also be presented to the user.

NOTE: it is possible to have repetitions of the same PLMN in the list presented to the user

3. Upon user selection of the desired PLMN the <u>WLAN</u> UE shall attempt to register on this PLMN. If more than one <u>I-WLAN access point</u> offers connection to the selected PLMN[0], then the <u>WLAN</u> UE shall attempt registration via the selected <u>I-WLAN access point</u>. To do so, the <u>WLAN</u> UE associates with the <u>I-WLAN AP</u> supporting the PLMN selected by the user and attempt authentication.

TSG-SA WG1 #25 S1-040711

Montreal, Canada, 28 June - 02 July 2004

Agenda Item:

CHANGE REQUEST												
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Proposed change affects: UICC apps# ME X Radio Access Network Core Network												
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General

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The purpose of the procedure is to enable the UE to find a I-WLAN, however, in case no PLMN is found to be supported by any of the available WLANs, the behaviour of the UE is not specified.

For the purpose of selecting the preferred I-WLAN in case multiple I-WLANs can support the connection to the desired PLMN and for optimising the PLMN selection, the UICC may contain a <u>I-</u>WLAN identities' preference lists provisioned by the operator.

A) Automatic selection mode

In the automatic mode the UE shall perform the following procedure:

- 1. For each of the WLANs available the UE shall attempt to discover the PLMNs available via the particular <u>I-</u>WLAN. <u>If the UICC contains an I-WLAN identities' preference list, this initial step shall be done in the order of this list. For each I-WLAN, iIf the WLAN UE receives a list of available PLMNs, then</u>
 - 1a) If the HPLMN is found then the procedure is stopped and the HPLMN is selected.
 - 1b) If the HPLMN is not found, the UE creates a list of PLMNs accessible over the particular WLAN
- 2. Among all the PLMNs obtained in step 1b), select a PLMN following this order:
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 - iv) PLMNs contained in the "Operator Controlled PLMN Selector list with access technology", if available;
 - v) PLMNs contained in the optional "[0]User Controlled PLMN Selector list for I-WLAN " in the ME in priority order, if the list is available;
 - vi) PLMNs contained in the optional "Operator Controlled PLMN Selector list for I-WLAN" in the ME in priority order, if the list is available;
 - vii) any other PLMN not included in the lists (randomly)
- 3. Attempt association with the <u>highest priority I-WLAN AP-in the I-WLAN identities' preference list (if available)</u> providing connection to the PLMN selected in step 2 and attempt authentication with the selected PLMN.

B) Manual selection mode

In manual selection mode the UE shall perform the following procedure:

- 1. For each of the available WLANs the UE shall attempt to discover the PLMNs available via the particular WLAN.
- 2. If the UE receives a list of available PLMNs, then the UE presents the available PLMNs in the following order:

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In case more than one WLAN AP gives access to the same PLMN, an indication of the WLAN identity should also be presented to the user.

NOTE: it is possible to have repetitions of the same PLMN in the list presented to the user

3. Upon user selection of the desired PLMN the UE shall attempt to register on this PLMN. If more than one WLAN access point offer connection to the selected PLMN[0], then the UE shall attempt registration via the selected WLAN access point. To do so, the UE associates with the AP supporting the PLMN selected by the user and attempt authentication.

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S1-040712

Agenda Item: 10.6

How to create CRs using this form:

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5.1.7 Interworking between PLMN and WLANs

5.1.7.1 General

WLAN-3GPP system interworking is defined as a wireless IP connectivity service where the user obtains access via a Wireless LAN technology. It shall be possible to deploy the WLAN as an integral part of the 3GPP system or the two systems can be separate.

The 3GPP system shall be capable of interworking with one or more WLANs and a WLAN shall be capable of interworking with one or more 3GPP systems see figure 2.

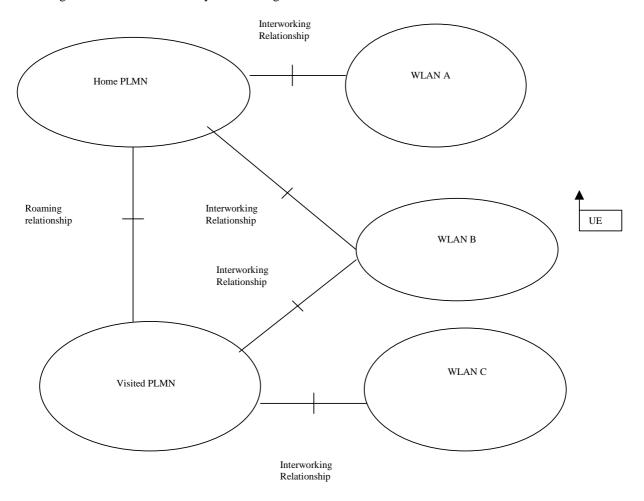


Figure 2: WLAN-3GPP system interworking relationships

The service is subject to a 3GPP system subscription (see clause 15). Both IPv4 and IPv6 connectivity via a Wireless LAN (WLAN) shall be supported.

It is an operator decision as to the level of interworking supported. This can be broadly grouped as:

- 3GPP based access control and charging. The user shall be able to access general internet services and/or corporate intranets. (Scenario 2 of TR 22.934 [2])
- Access to 3GPP PS based services, e.g. IMS. (Scenario 3 of TR 22.934 [2])
- Access to 3GPP PS based services with service continuity. The user may or may not notice a disruption in service, depending upon the level of service continuity supported. This is further defined in TS 22.129 [5]. (Scenarios 4 and 5 of TR 22.934 [2])

NOTE: Further information on these levels of interworking and the use cases supported can be found in TR 22.934 [2].

In addition to the general requirements on I-WLAN defined in the present document, the following requirements apply:

- When enabling access to 3GPP services that require separate authentication and access control, such as IMS, the service authentication and access control mechanisms for those services shall be used.
- It should be possible to provide access via I-WLAN on deployed WLAN devices.

5.1.7.2 Simultaneous connection to I-WLANs and 3GPP systems

5.1.7 Interworking between PLMN and WLANs

5.1.7.1 General

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The 3GPP system shall be capable of interworking with one or more WLANs and a WLAN shall be capable of interworking with one or more 3GPP systems see figure 1.

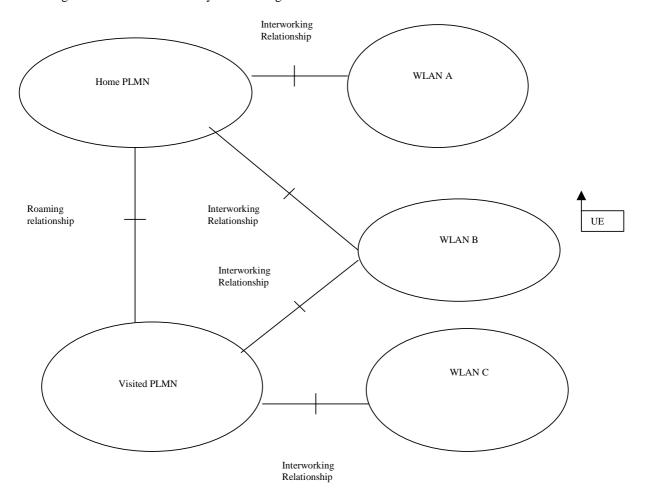


Figure 1: WLAN-3GPP system interworking relationships

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It is an operator decision as to the level of interworking supported. This can be broadly grouped as:

- 3GPP based access control and charging only. The user shall be able to access general internet services and/or corporate intranets. (Scenario 2 of TR 22.934 [2])
- Access to 3GPP PS based services, e.g. IMS. (Scenario 3 of TR 22.934 [2])

- Access to 3GPP PS based services with service continuity. The user may or may not notice a disruption in service, depending upon the level of service continuity supported. This is further defined in TS 22.129 [5]. (Scenarios 4 and 5 of TR 22.934 [2])

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- It should be possible to provide access via I-WLAN on deployed WLAN devices.

5.1.7.2 Simultaneous connection to I-WLANs and 3GPP systems

Agenda Item: 10.6

CHANGE REQUEST

22.234 CR 008 # rev - # Current version: 6.1.0

For <u>HELP</u> 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 X

Title: Clarification of the relationship between different levels of WLAN interworking Source: 第 SA1 (NTT DoCoMo Inc.) Date: # 28/6/2004 ₩ F Category: Release: # Rel-6 Use one of the following releases: Use one of the following categories: F (correction) (GSM Phase 2) 2 **A** (corresponds to a correction in an earlier release) R96 (Release 1996) **B** (addition of feature), (Release 1997) R97 **C** (functional modification of feature) R98 (Release 1998) **D** (editorial modification) R99 (Release 1999) Detailed explanations of the above categories can (Release 4) Rel-4 be found in 3GPP TR 21.900. (Release 5) Rel-5 Rel-6 (Release 6)

Reason for change:

TS 22.234 describes several levels of interworking between the 3GPP system and WLAN. These scenarios are described without stating that each of the levels of interworking are independent. This has lead to confusion when standardising the architecture for 3GPP-WLAN Interworking.

Summary of change:

Text is added to chapter 5.1.7 to clarify that the levels of interworking between the 3GPP system and WLAN are independent and that it shall be possible for a network operator to provide a level of interworking described above without it being necessary to provide the preceding level of interworking.

Consequences if not approved:

The independence of the WLAN Interworking scenarios will not be recognised resulting in incorrect Stage 2 and 3 standardisation for 3GPP-WLAN Interworking.

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1st Modified Section

5.1.7 Interworking between PLMN and WLANs

5.1.7.1 General

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The 3GPP system shall be capable of interworking with one or more WLANs and a WLAN shall be capable of interworking with one or more 3GPP systems see figure 2.

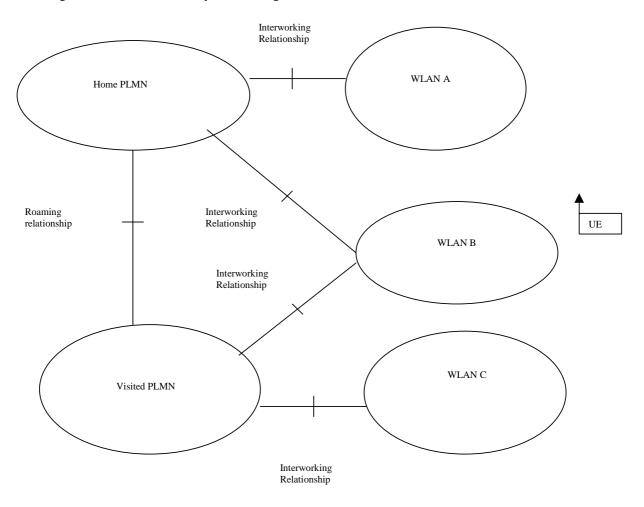


Figure 2: WLAN-3GPP system interworking relationships

The service is subject to a 3GPP system subscription (see clause 15). Both IPv4 and IPv6 connectivity via a Wireless LAN (WLAN) shall be supported.

It is an operator decision as to the level of interworking supported. This can be broadly grouped as:

- 3GPP based access control and charging. The user shall be able to access general internet services and/or corporate intranets. (Scenario 2 of TR 22.934 [2])
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NOTE: Further information on these levels of interworking and the use cases supported can be found in TR 22.934 [2].

The different levels of interworking supported are defined to be independent. Hence, it shall be possible for a network operator to provide a particular level of interworking independently to other levels of interworking.

NOTE: For example, it is possible for a network operator to provide a level of interworking to provide access to 3GPP PS based services (Scenario 3 of TR 22.934 [2]) without needing to provide the level of interworking for 3GPP based access control and charging (Scenario 2 of TR 22.934 [2]). In this case 3GPP USIM based authentication of the user is still needed before accessing 3GPP PS based services.

In addition to the general requirements on I-WLAN defined in the present document, the following requirements apply:

- When enabling access to 3GPP services that require separate authentication and access control, such as IMS, the service authentication and access control mechanisms for those services shall be used.
- It should be possible to provide access via I-WLAN on deployed WLAN devices.

End of changes

TSG-SA WG1 #25 S1-040726

Agenda Item: 10.6

Montreal, Canada, 28 June - 02 July 2004

Other comments:

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CHANGE REQUEST											
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6.1.1.1 PLMN selection procedures

General

For the purpose of selecting a PLMN two lists may be present in the UICC: the "User Controlled PLMN Selector list for I-WLAN" and the "Operator Controlled PLMN Selector list for I-WLAN". It is not mandatory for the UICC to support these lists, however if the "Operator Controlled PLMN Selector list for I-WLAN" is supported then the "User Controlled PLMN Selector list for I-WLAN" shall also be present. Both the lists contain the preferred PLMNs for I-WLAN in priority order, and the User Controlled PLMN Selector list for I-WLAN has higher priority than the Operator Controlled PLMN Selector list for I-WLAN.

The purpose of the procedure is to enable the UE to find a I-WLAN, however, in case no PLMN is found to be supported by any of the available WLANs, the behaviour of the UE is not specified.

For the purpose of selecting the preferred I WLAN in case multiple I WLANs can support the connection to the desired PLMN and for optimising the PLMN selection, the UICC may contain a WLAN identities' preference lists provisioned by the operator.

For the purpose of selecting the preferred I-WLAN in case multiple I-WLANs can support the connection to the desired PLMN and for optimising the PLMN selection, two lists may be present in the UICC: the "User Controlled WLAN identities list for I-WLAN" and the "Operator Controlled WLAN identities list for I-WLAN". It is not mandatory for the UICC to support these lists, however if the "Operator Controlled WLAN identities list for I-WLAN" is supported then the "User Controlled WLAN identities list for I-WLAN" shall also be present. Both the lists contain the preferred WLAN identities in priority order, and the "User Controlled WLAN identities list for I-WLAN" has higher priority than the "Operator Controlled WLAN identities list for I-WLAN".