between an AP and a PDG is established. The PDG further establishes a tunnel to an IP network. The WTRU then invokes a service which is delivered through the WLAN. As signal quality from the AP degrades below a predetermined threshold, a handover from the WLAN to the cellular network is performed. A new connection to the cellular network may be established either before or after breaking the current connection to the WLAN or the two connections may be maintained simultaneously.

[0008a] According to a first aspect, there is provided a wireless transmit/receive unit (WTRU) comprising: means for receiving a user service from an Internet Protocol (IP) multimedia subsystem (IMS) via a wireless local area network (WLAN); means for initiating a handover of the user service from the WLAN to a cellular network; and means for performing the handover while continuously receiving the user service from the IMS during the handover and maintaining a connection to the WLAN while simultaneously maintaining a connection to the cellular network.

[0008b] According to a second aspect, there is provided a method for use in a wireless transmit/receive unit (WTRU), the method comprising: establishing a connection with a Wireless Local Area Network (WLAN); invoking an IP session for a user service; receiving the user service via a packet data gateway (PDG) and the WLAN; initiating a handover from the WLAN to a cellular network; and performing the handover while continuously receiving the user service from the IMS during the handover and maintaining a connection to the WLAN and a connection to the cellular network simultaneously.

[0008c] According to a third aspect, there is provided a wireless transmit/receive unit (WTRU) comprising: means for establishing a connection to a wireless local area network (WLAN); means for obtaining the address of a packet data gateway (PDG) using Domain Name Service (DNS) via the WLAN; means for establishing a tunnel between the WTRU and the PDG; means for registering with a Third Generation Partnership Project (3GPP) Internet Protocol (IP) multimedia subsystem (IMS) via the WLAN using Session Initiation Protocol (SIP); means for invoking an IP session for a user service from the IMS; means for receiving the user service from the IMS via the WLAN and the tunnel between the WTRU and the PDG; means for establishing a connection to a cellular network; means for initiating a handover of the user service from the WLAN to the cellular network; and means for performing the handover while continuously receiving the user service from the IMS during the handover and maintaining the connection to the WLAN and the connection to the cellular network simultaneously.

[0009] BRIEF DESCRIPTION OF THE DRAWINGS

[0010] A more detailed understanding of the invention may be had from the following description of preferred embodiments, given by way of example and to be understood in conjunction with the accompanying drawings, wherein:

[0011] Figure 1 is a block diagram of a UMTS-WLAN architecture;

[0012] Figure 2 is a signaling diagram of a process for access to 3G based services through a WLAN;

[0013] Figure 3 is a signaling diagram of a process for interworking in accordance with a first embodiment of the present invention;

[0014] Figure 4 is a signaling diagram of an alternative process for interworking in accordance with an alternative to the first embodiment of the present invention;

[0015] Figure 5 is a signaling diagram of a process for interworking in accordance with a second embodiment of the present invention;

[0016] Figure 6 is a signaling diagram of an alternative process for interworking in accordance with an alternative to the second embodiment of the present invention; and

[0017] Figure 7 is a signaling diagram of a process for interworking in accordance with a third embodiment of the present invention.

[0018] DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0019] The present invention will be described with reference to the drawing figures wherein like numerals represent like elements throughout.