SUMMARY

A method and apparatus for performing Inter-User Equipment Transfer (IUT) across an internet protocol (IP) based network using a proxy mobile internet protocol (PMIP) or a general packet radio service (GPRS) tunneling protocol (GTP). This framework allows for preparation, execution and completion of data transfer at a target device through registration with a Local Mobility Anchor (LMA), receipt of an IUT request and creation of a dedicated bearer. The target device is associated with the dedicated bearer and receives session information based on its association with the dedicated bearer.

[0002a] According to one aspect, there is provided a target wireless transmit/receive unit (WTRU) for receiving a first media flow of a communication session associated with a source WTRU, the target WTRU comprising: a receiver configured to receive an Inter-User Equipment (UE) Transfer (IUT) request, the IUT request being received via a local mobility anchor (LMA) and the IUT request indicating a request for receiving the first media flow of the communication session associated with the source WTRU, wherein the source WTRU is associated with a source home address (HoA) and the target WTRU is associated with a target care of address (CoA); and a transmitter configured to transmit an IUT acknowledgement in response to the IUT request; the receiver further configured to receive the first media flow of the communication session based on a binding maintained by the LMA between the first media flow, the source HoA, and the target CoA, wherein the first media flow of the communication session is addressed to the source HoA, and wherein a second media flow of the communication addressed to the source HoA is not transferred to the target WTRU and remains with the source WTRU.

[0002b] According to another aspect, there is provided a method, implemented by a target wireless transmit/receive unit (WTRU), for receiving a first media flow of a communication session associated with a source WTRU, the method comprising: receiving an Inter-User Equipment (UE) Transfer (IUT) request, the IUT request being received via a local mobility anchor (LMA) and the IUT request indicating a request for receiving the first media flow of the communication session associated with the source WTRU, wherein the source WTRU is associated with a source home address (HoA) and the target WTRU is associated with a target care of address (CoA); transmitting an IUT acknowledgement in response to the IUT request; and receiving the first media flow of the communication session based on a binding maintained by the LMA between the first media flow, the source HoA, and the target CoA, wherein the first media flow of the communication session is addressed to the source HoA, and wherein a second media flow of the communication session addressed to the source HoA is not transferred to the target WTRU and remains with the source WTRU.

BRIEF DESCRIPTION OF THE DRAWINGS

[0003] A more detailed understanding may be had from the following description, given by way of example in conjunction with the accompanying drawings wherein:

[0004] Figure 1A is a system diagram of an example communications system in which one or more disclosed embodiments may be implemented;

[0005] Figure 1B is a system diagram of an example wireless transmit/receive unit (WTRU) that may be used within the communications system illustrated in Figure 1A;

[0006] Figure 1C is a system diagram of an example radio access network and an example core network that may be used within the communications system illustrated in FIG. 1A;

[0007] Figure 2 shows a high level diagram of IUT of media flows, wherein the media flows may be transferred, modified, duplicated or retrieved between IP media clients across any IP based network;