ABSTRACT

METHODS AND APPARATUS FOR

LARGE SCALE SEAMLESS ROAMING ACROSS VLAN

A method and an apparatus for supporting seamless roaming across VLAN in large scale is described. In the present invention, a new apparatus named Enhanced Network Address Translation (ENAT) is used to update user's location information when user moves from one VLAN to another VLAN. By following the specified packet processing flow, mobile user's location information (VLAN) could be updated in real time on a per-packet based manner. With a shared IP scheme to allow user to roam between VLANs, the TCP/UDP session will be maintained when mobile user move across VLANs.

Fig1 accompanies this abstract.