

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 Enhance 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 maner. With a shared IP scheme to allow user to roma between VLANs, the TCP/UDP session will be maintained when mobile user move across VLANs.

Fig1 accompanies this abstract.