Abstract

The development of wireless technology and its interfaces, also followed by the high speed access to internet services, has emerged great demands to provide mobile network enabled internet :

Mobility management in mobile IP requires mobile hosts to send registration information after each migrations. The resulting signalling overhead has significant impact on the performance of the wireless access network And this will become increasingly important as cells become smaller, user population greater and migration frequency faster.

Cellular IP gives a new approach in internet host mobility as a protocol that is optimized to support local mobility but efficiently interworks with Mobile IP to provide wide area. Cellular IP incorporates a number of important cellular system design principles such as handoff control, paging and passive connectivity and implement based on IP paradigm.

In this final assignment, will concern how to reduce node complexity and allow for fast routing in *cellular* IP network with propose the integration of location management with routing. In this integrated solution the location information stored in distributed cache which handle location management of idle and active mobile hosts separately. Paging cache coarsely maintains the position of 'idle' mobile hosts in a service area and cellular IP uses this paging cache to quickly and efficiently pinpoint 'idle' mobile hosts that wish to engage in 'active' communications. Other distributed cache is routing cache which maintains the position of active mobile hosts in the service area and dynamically refreshes the routing state in response for migration of active mobile hosts.