

A Cost Efficient Location Management Technique for Mobile Users with Frequently Visited Locations

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Abstract

Managing location information of mobile terminals is an important issue in mobile computing systems. Unfortunately, current standards of location management schemes, such as GSM and IS-41, behave inefficiently for mobile terminals moving between the same set of areas, or users tending to call and move in a fixed pattern. This in turn results in a high location management cost. Several approaches have been proposed to tackle with this problem. One of the most efficient techniques is to replicate user profile according to the most frequently visited location areas. In this paper, we propose a new location management scheme based on replicated databases utilizing mobile stations to capture frequently visited location areas. We compare the performance of our scheme with that of GSM and other replicated databases location management schemes in respect of communication cost, database cost, and total cost. Simulation results show that the proposed scheme performs better than other schemes.

Keywords: Location management, Replicated Databases, Mobile networks

1. Introduction

In a personal communications services (PCS) network, the service area is partitioned into several location areas (LAs). Each LA consists of a number of cells. In each cell, there is a base station (BS) with a number of mobile stations (MSs) that is also called mobile terminals (MTs). BSs in a LA are connected to a mobile switching center (MSC). PCS allows MSs to receive calls irrespective of their location in a seamless manner. The task of tracking the location of mobile terminals is known as location management. Location management involves two basic operations: location update and paging. Location update occurs when MSs move from one place to another. Whenever a call needs to be delivered to the mobile, the paging operation occurs to search for the location of the callee mobile. There is a trade-off between location update and paging

costs. The current approach of mobility database design for a PCS database system is a two level hierarchical system. Two different types of databases are used for location management: home location register (HLR) and visitor location register (VLR). The HLR is a home database that contains all subscriber records of mobile users, and the VLR is a remote database that will cache the profiles of mobile users located in a remote region [1, 2].

There are currently two commonly used standards for location management in the cellular mobile networks: the electronic and telephone industry associations EIA/TIA Interim Standard 41 (IS-41), and the global system for mobile communications (GSM) [1, 2]. The IS-41 scheme is commonly used in North America, while the GSM is mostly used in Europe. Both standards are based on the two-level database hierarchy.

Several approaches have been suggested in the literature for the location management of cellular mobile networks [3-7]. Replication [8-15], caching, forward pointers, local anchoring, selective paging, and threshold-based [20] are examples of these approaches. Practice has shown that using replicated databases or caching is more efficient for users with frequently visited locations, i.e. calls and move stability [3]. The replicated approach is better than caching by its data availability and reliability in the presence of site or communication failures, hence improving the system performance. So, we are focusing in this paper with replicated database techniques.

Using a centralized database will not be efficient for handling the high volume of database traffic due to the constant change of users' location, it will be advantageous to distribute and replicates users' addresses at multiple locations. This replication scheme makes user profile information more readily available, thus reducing network traffic and database query costs resulting from the registration/de-registration operations that occur when a mobile user moves from one LA to another. But to keep these replicas consistent and up-to-date, they must be updated when the user profile is updated. Although the replicated database techniques, suggested in the literature replicate user profile, yet our

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