Mobility Management in Wireless Networks: Data Replication Strategies and Applications (Ercoftac S)

Karen Q. Tian, Donald C. Cox

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In wireless communication systems, the network keeps track of a user's location through an up-to-date user profile stored in various databases. A user profile contains not only a user's current location information, but also service information, such as billing and authentication. The cov- age area of an access network is divided into registration areas (RAs), and each RA is associated with a location database. The two basic op- ations in mobility management are location update and location lookup. When a user moves across the boundaries of these RAs, the network updates his location information in the pertinent databases. When a caller places a call using the callee's identification, the network queries the relevant database(s) to obtain the current location and other service information of the callee. The performance of mobility management can be further enhanced by using replicas of user profiles which may be kept at various locations. Replication techniques make profile information more readily available, thus reducing lookup cost and latency, but to keep these replicas c- sistent and fresh, they must be updated whenever the user profile is updated. The principle of replication is to replicate if the benefit of replication is greater than its overhead. The difficulty, however, lies in accurately measuring the benefit and overhead.

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