

A Mobile Distributed System for Personal Security

- **Introduction**

The goal of this system is to provide a location-based alarm system through which customers can broadcast their last known position in emergency situations. Imagine that you are hiking in the forest alone and don't know how to get back to your car, or you get lost driving to your friend's home. At times like these, how can you ask for help? With the push of a single button or pull off the hands-free cord on this system, it will notify your friends with your latest locations immediately.

- **Positioning**

Mobile positioning determines the user's actual location information by mobile terminals and mobile networks, such as text messages or mobile signals to a complete a series of location information services. The mobile positioning method can be broadly classified into three types:

- ✓ **Positioning based on triangulation:** This approach is most widely used in mobile positioning technology. It uses the geometric calculation of the triangular relationship to measure the target object's location. This measurement of positioning technology needs to know three reference point locations and the distances from those reference point locations to the target object. Then using triangular knowledge, it can detect the target object's position.
- ✓ **Positioning based on environment analysis:** This approach uses the characteristics of the environment surrounding the target object to measure its location. It detects the target object's location by comparing the characteristics of the surrounding environment to existing characteristics which have been stored in a database.
- ✓ **Positioning based on relationship:** This approach uses the relationship of the target object and one or more existing objects to measure the target object's location. It needs an identification system to identify each unique existing object such as the id of each cell tower.

- **Track Position**

The mobile phone may receive cell signal or Wi-Fi signal from different cell towers or access points. Therefore we would apply the triangulation theory in our solution to calculate approximate location. However, it cannot work so precisely as GPS. The figure below shows the triangulation theory in the cell phone.

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A Mobile Distributed System For Personal Security:

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