

Mobile Service Platform Technology

April, 2008

Abstract

It has become to be able to use the mobile phone which has advanced functions such as wireless LAN connectivity by the development of recent mobile phone technologies. And the use of consumer service with rich media such as music and videos advances by the wider bandwidth of a mobile communication network for the 3.5G/4G mobile phone, and the business use like Mobile Sales Force Automation is also rapidly advanced. However, the mobile communication environment differs from the office environment, sometimes radio power is weak in the place where the user operates the mobile phone, and also the radio wave is unstable. In such a situation, the user suffers from unnecessary input operation with the mobile phone, and the VoIP communications are interrupted. The mobile service platform technology solves the above-mentioned problems for the data communication and the voice-data communication in the mobile environment, and makes the mobile phone easy to use more for the business.

Technology

• Mobile Messaging Platform (Figure 1)

Because the mobile phone cooperates with the mobile gateway server, data is delivered reliably and efficiently on the basis of a proprietary format and protocol like retry sending and data compression, by the asynchronous communication, retrieves data at off-line, and sends it becomes possible, the mobile phone user doesn't need to consider about the network. Moreover, the modification of the application server is reduced by converting data automatically for the mobile phone into the format similar to it for the PC for the application server and connecting it, and development of the system for the mobile application is facilitated.

• Mobile VoIP Platform (Figure 2)

The voice quality decrease due to bandwidth shortage is prevented by intensively controlling band information at wireless LAN access point with the AP management server, and synchronizing it with the call session control with the SIP (Session Initiation Protocol) server. Moreover, on the terminal side, the voice processing software which has dynamic buffering adjustment mechanism achieves a high-quality voice-data communication.

Application Examples

- Mobile Sales Force Automation
- Field Force Automation
- FMC (Dual Mode Phone) Solution

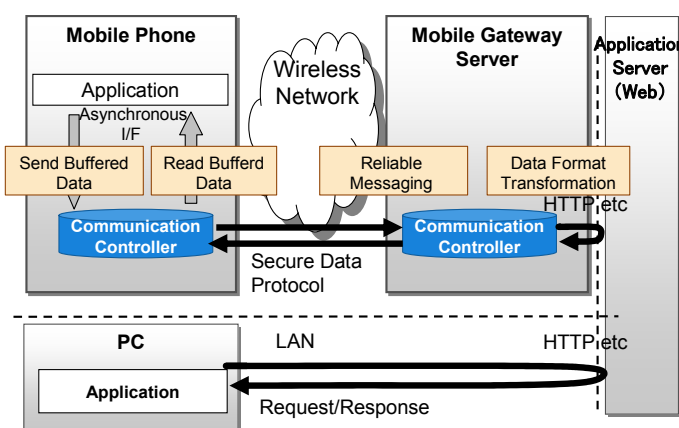


Figure1. Mobile Messaging Platform

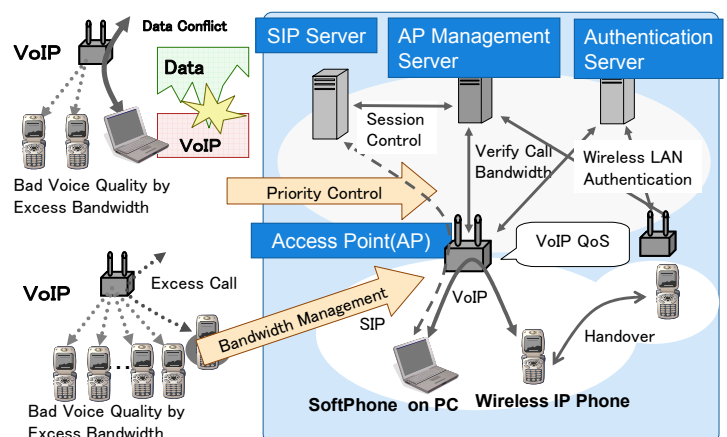


Figure 2. Mobile VoIP Platform