

The Research of Improving Centralized Monitoring and Control System by WAP and PUSH Technology

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ABSTRACT

When WAP was first introduced, it received high anticipation. Everyone wish to access internet by cellular phone, just like using desktop PC at home, to retrieve various content, like audio and video service. But most people was disappointed about its performance due to the limitation of cellular phone display, difficulty of input and low bandwidth. From this point of view, WAP is not satisfactory for web browsing. Perhaps this is the reason why WAP isn't popular. In fact, the advantages of WAP should be it's mobility and convenience. We can only see it's superiority by developing applications base on these aspects. Recently, many operator reinforce their WAP service in this way. Gradually, services such as mobile bank, LIS (Location Information Service), mobile mail are developed. However, these are all applications concerning daily life. The mobility, real-time characteristic and simple interface make it fit more to industrial application. The research in this thesis try to incorporate WAP, SMS, WAP push technology with centralized monitoring and control system, to break the bottleneck of traditional ones via the mobility and real-time characteristic. This enables maintenance persons to have efficient control over machines and take emergency handling if necessary via cellular phone when they are not in control center. As a result, this makes system maintenance more flexible and efficient without lowering maintenance quality.

Keywords : Centralized monitoring and control system ; wap ; sms ; wap push

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