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The integration of security systems using WBSC

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Abstract
Presently, the aggravated economy and society in many countries can critically lead to various forms of crimes, especially building robbery. Therefore, one of the best ways to prevent the properties' owners from such crime is to install a security system. Basically, the designed building security systems consist of two installation systems, the Monitoring system such as Closed-Circuit Television (CCTV) and the Alarm system. Each system has its own control equipments such as Digital Video Recorder for the CCTV system and Control Panel for the Alarm system, which might constitute high cost and difficulties to control and manage those equipments. In this paper, we introduce new controlled equipment for the both building security systems. It integrates and extends the functions to control both Monitoring and Alarm systems, which is called WBSC (Wireless Building Security Control). In addition, we also propose an incorporation of the wireless network, mobile network, and PSTN (Public Switching Telephone Network) into the use of the building security systems. Finally, the result of this paper presents a functional success of the WBSC equipment that meets the requirements to control the building security systems and to perform the alarming system very efficiently for the properties' owner at anywhere and anytime. © 2012 Springer-Verlag GmbH.

Author Keywords
GSM; IEEE802.11; Mobile Network; WBSC; Wireless Network

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