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Abstract

The functionality of mobile terminals has evolved tremendously over the last 10 years. Initially, there was just voice transmission. Then, short message service (SMS) and web browsing (WAP and i-mode) were added. Later, interactions with vending machines (c-mode) and multimedia messaging services (MMS) became available. Most recently, video conferencing and interaction with the surrounding physical environment (i-area) became possible. This trend indicates a clear evolution toward Machine-to-machine communication, which requires a sophisticated software infrastructure running in the mobile terminals. This data transmission is triggered by digital services running on the phone as well as on the network that allow users to access data and functionality everywhere and at anytime. They are digital companions that operate in our own context and assist us with everyday tasks. The objective of this paper is to compare terminal software platform of Symbian OS, Palm OS, Windows CE .NET OS, and Qualcomm BREW.

Keywords: Mobile Terminal, WAP, Software Platform, Digital Service