

FUTURE SMARTPHONE: MOBILE VIRTUALIZATION SYSTEM USING CLOUD COMPUTING

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ABSTRACT

Together with an explosive growth of smartphone users the mobile applications offerings are growing rapidly. However, these mobile applications are still intrinsically limited by a relative lack of bandwidth, computing power, and energy compared to their tethered counterparts. To enhance the smartphone user experience the concept of mobile virtualization using cloud computing has been introduced to be a potential technology for mobile services. In this project, we present mobile virtualization via cloud that allows users to create virtual smartphone images in the mobile cloud and to customize each image to meet different needs. Users can easily and freely tap into the power of the data center by installing the desired mobile applications remotely in one of these images. Because the mobile applications are controlled remotely, they are not constrained by the limit of processing power, memory and battery life of a physical smartphone.

KEYWORDS: Smartphone, Virtualization, Cloud