Controlling Remote Peripherals using Data Present in the Cloud

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Abstract

In this paper we have developed a novel method to control peripherals kept at remote locations using information present in the cloud or DNS host server. Controlling peripherals via conventional methods like DTMF module requires human intervention at every step (viz pressing keypad etc) and only one system can be operated at one instance. Here we will describe how code already present in the cloud can be fetched by the system(s) and operated upon without continuous human intervention. In the simplest case our method can be described in terms of three nodes (computers). The first node is basically a computer or device that sends data to the second node which is basically a webhost. Data sent via the first node is stored in the host data bank and is universally accessible. Thus this data or set of code becomes "data in cloud". Third node is a remote computer connected to the peripheral to be controlled via a special module(called Node. 3. Module). This computer has a software that acquires the data on cloud (or webhost data bank) and produces discrete signals which instruct the module laced with a microcontroller to perform corresponding tasks on the peripheral.

References
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Index Terms

Computer Science

Embedded

Keywords

Cloud Data  DTMF(MT8870PI)  Atmega16  ULN 2803  PHP  Visual Basic

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