



E-BAZAAR INNOVATION USING IOT DEVICE IN CLOUD SUBSCRIPTION MANAGEMENT

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ABSTRACT

An IoT device receives information and commercials from e-Bazaar Innovation using IoT device in cloud subscription management. The IoT device is preprogrammed with internet protocol address. The IoT device sends an initial application to the network with its protocol address. By knowing location information of the guiding station communication on commercials can be achieved on any particular IoT device across the network.

Key words: IoT device, e-bazaar, cloud management, internet protocol address.

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1. INTRODUCTION

The system and method for activating IoT device for an automated process for managing an on the air activation, deactivation, or change of service for a two-way IoT device. For conducting e-Bazaar Innovation using IoT device in cloud subscription management to exploit e-Bazaar Innovation to deliver to IoT device users a targeted information and commercials. The initiation process for IoT device communication requires once service source regulates that the user must be legitimate for service, service source contacts network source for unique authorization code to become part of the network as legitimate user.

2. RELATED WORK

Defining Internet of Things, it is simply a point in time when more “things or objects” are connected to the Internet than people. Vast growth of smart phones and tablet PCs made the number of devices connected to the Internet to 12.5 billion in 2010, while the world’s human population increased to 6.8 billion, making the number of connected devices per person more than 1 (1.84 to be exact) for the first time in history [1].

The Internet of Things (IoT) refers to the term where devices and systems are intelligently connected. This supports data gathered by embedded sensors and actuators in machines and other physical objects. IoT is expected to spread rapidly over the coming years and this convergence will unleash a new dimension of services that improve the quality of life of consumers and productivity of enterprises, unlocking an opportunity that the GSMA refers to as the 'Connected Life'. For consumers, the IoT has the potential to deliver solutions that dramatically improve energy efficiency, security, health, education and many other aspects of daily life. For enterprises, IoT can underpin solutions that improve decision-making and productivity in manufacturing, retail, agriculture and other sectors [2].

Today's era have seen top most boom in e-bazaar. Now people carry plastic card. They are skipping the routine purchase from shopping malls. They are making real purchases from virtual malls from their bedrooms. A new market is taking over vibrant consumer's economy. The new market is more dynamic and has its own brighter and the flip side. Most of the business is moving online B to B (business to business) so the courier services like First Fight have started downsizing their operations. The new in-thing is e-commerce [3].

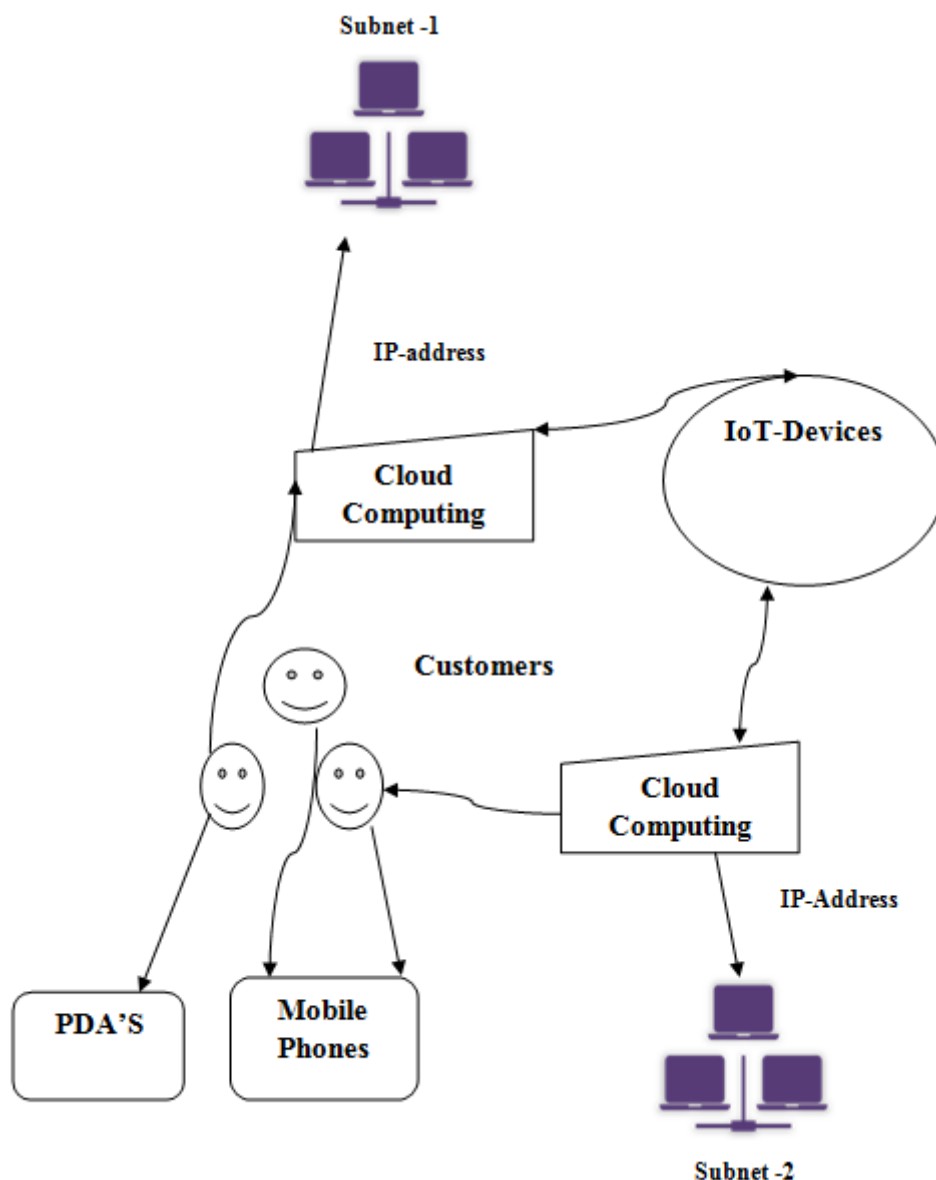
The new era of computing called Cloud Computing allows the user to access the cloud services dynamically over the Internet wherever and whenever needed. Cloud consists of data and resources; and the cloud services include the delivery of software, infrastructure, applications, and storage over the Internet based on user demand through Internet. In short, cloud computing is a business and economic model allowing the users to utilize high-end computing and storage virtually with minimal infrastructure on their end. Cloud has three service models namely, Cloud Software-as-a-Service (SaaS), Cloud Platform-as-a-Service (PaaS), and Cloud Infrastructure-as-a-Service (IaaS). This paper talks in depth of cloud infrastructure service management [4, 5].

Raj Jain, [2008], An IP address is used to uniquely identify a device on an IP network. Identifying devices on the basis of their IP address can become very confusing if IP address plan not properly defined. A sound IP address plan helps to build a network base that supports additional services such as unified communications, wireless access, and enhanced network security. IP addressing is a Network Foundation service, which makes it core to the network design. It provides the base for all other network and user services. Without the foundation, it would not be possible to interact with network and user services, from picking up the phone using the phone service to reading email using the email service.

3. PROPOSED SYSTEM

A cloud subscription management system for an automated and on the air process of managing, administration and activation of IoT devices. The proposed method decreases physical process and data entry error distribution, production and programming of IoT devices. The cloud subscription management system dynamically assigns unique protocol addresses. The IoT device queries the service source for registering for a service with network source for a limited period after that IoT device returns back to the pool of devices for further instruction of participation in the cloud subscription management. The dynamic allocation unique protocol addresses for IoT devices associated with static sites, these sites are associated with alarm system, TV, vending machine, set-top box, refrigerator and air conditioner.

4. CLOUD SUBSCRIPTION MANAGEMENT OF INTERNET OF THINGS DEVICES



5. CONCLUSIONS

The IoT allows smart devices to be sensed or controlled remotely across existing network infrastructure. This creates opportunities for direct integration of the human world into computer-based systems. This integration results in improved efficiency, accuracy and economic benefit in addition to reduced human intervention.

This internetworking of devices and the entire communication is done using cloud management system. The proposed method decreases physical process and data entry error distribution, production and programming of IoT devices. Each of the smart devices is uniquely identified by internet protocol address. These IP addresses are assigned dynamically by the cloud subscription management system. These IP addresses are for static sites associated with alarm system, TV, vending machine etc. The architecture is robust and provides scalability of devices. The speed of communication is very fast with increased performance.

REFERENCES

- [1] Dave Evans, "The Internet of Things How the Next Evolution of the Internet Is Changing Everything", Cisco IBSG © 2011 Cisco and/or its affiliates. All rights reserved. 04/11.
- [2] Simona Jankowski, CFA, James Covello, Heather Bellini, CFA, Joe Ritchie, Daniela Costa," The Internet of Things: Making sense of the next mega-trend ", Goldman Sachs, September 3 2014.
- [3] Vidyut Kaustubh Deshpande, "A Study on adaptive supply chain management system", ASM's International E-Journal on Ongoing Research in Management and IT" E-ISSN-2320-0065.
- [4] Anasuya Threse Innocent," Cloud Infrastructure Service Management – A Review", Department of Computer Science and Engineering, SCT Institute of Technology, Visvesvaraya Technological University, Bangalore, Karnataka, India.
- [5] Peter Mell, Timothy Grance, "The NIST Definition of Cloud Computing (Draft)", NIST Special Publication 800- 145, January 2011.
- [6] Borko Furht, Armando Escalante, "Handbook of Cloud Computing", Springer Science + Business Media, 2010, eISBN 978-1-4419-6524-0
- [7] Barrie Sosinsky et al., "Cloud Computing Bible", Wiley India, 2011
- [8] Salvatore Distefano, Antonio Puliafito, Massimiliano Rak, Salvatore Venticinque, Umberto Villano, Antonio Cuomo, Giuseppe Di Modica, Orazio Tomarchio, "QoS Management in Cloud@Home Infrastructures", Proceedings of IEEE International Conference on Cyber Enabled Distributed Computing and Knowledge Discovery, 2011, pp. 190 – 197
- [9] Judith Hurwitz et al., "Cloud Computing for Dummies", Wiley, 2011
- [10] Michael Maurer, Ivan Breskovic, Vincent C. Emeakaroha, and Ivona Brandic, "Revealing the MAPE Loop for the Autonomic Management of Cloud Infrastructures", Proceedings of IEEE MoCS'11, June 2011, pp. 147 – 169
- [11] Liutong Xu, Jie Yang, "A Management Platform for Eucalyptus-Based IaS", Proceedings of IEEE CCIS2011, pp. 193 – 197
- [12] Ahsan Arefin, Guofei Jiang, "Cloud Insight: Shedding Light on the Cloud", Proceedings of 30th IEEE International Symposium on Reliable Distributed Systems, 2011, pp. 219 – 228.
- [13] Snehal R. Shinde, A. H. Karode and Dr. S. R. Suralkar, Review on-IOT Based Environment Monitoring System, International Journal of Electronics and Communication Engineering and Technology , 8(2), 2017, pp. 103–108.
- [14] Ashlesha A. Patil and Dr. S. R. Suralkar. Review on -IOT Based Smart Healthcare System. International Journal of Advanced Research in Engineering and Technology, 8(3), 2017, pp 37–42.