Analysis of The Influence of Web of Things on Computer Communication Network

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Abstract. The web of things is an important symbol of the informational age. It has brought a positive impact on the technology market of our society and made the connection between logistics and the Internet increasingly close. Its application has broad development space and value. The web of things has developed into a carrier that can make the current science and technology progress faster and further. This paper analyzes the current situation of the web of things and preliminarily studies the significant influence of the three levels of the web of things on the computer network. This paper simply analyzes the future development of the web of things. We hope that people can improve their market application ability and fully tap their potential economic effect and technical value.

Keywords: Web of Things, Computer, Communication Network

1. Introduction

With the continuous progress of logistics and Internet, computer network has had a very important impact on people's lives. The web of things is an important part of it. It transcends the limits of space and geography. With the virtual signal of the network, the web of things can achieve further development on the basis of the Internet. It makes the relationship between logistics and people closer. However, in the development of the web of things, it still has many defects and deficiencies. These shortcomings limit the further development of the web of things. In order to further create value, we must timely eliminate the existing contradictions and solve the shortcomings of the web of things. Only in this way can the web of things have a broader development space in the future [1].

2. The development of web of things

2.1. The concept of web of things
Compared with the Internet, people's understanding of the web of things is strange. In fact, the web of things is based on the development of the Internet. The web of things can break the limitation of spatial information transmission, and help people grasp the remote operation between business and logistics formed by the network. Today, the application of web of things technology has entered our ordinary life. One day in the future, it will have a broader market and unlimited value [2].

2.2. The current development of web of things

Although the status of web of things in the development of technology is very high, in the current era, it has not been widely popularized (see Table 1). On the contrary, when referring to the Internet that has been rooted in life, most people can think of various applications of Internet technology in daily life and the conveniences it brings to people's lives. Compared with the Internet, the convenience brought by the web of things is only for a small number of people. It still exists in theory in people's thoughts [3].

| Visiting topics                                      | Option        | Proportion |
|-----------------------------------------------------|---------------|------------|
| Obstacles to the future development of web of things technology | Technical issues | 15.6%     |
|                                                     | Security issues | 32.3%     |
|                                                     | People's thoughts | 5.86%     |
|                                                     | Cost of use     | 41.44%    |
|                                                     | Others          | 4.8%      |

At present, the web of things has not formed a large scale of development in China, and many of its technical problems have not been solved. This means that the web of things has a huge market waiting to be explored. If we use the web of things to form a new industry, the profits it brings are undoubtedly huge. We can believe that when the web of things technology develops to a certain stage, it can save a lot of labor, improve production quality and save costs [4].

3. The practical influence of web of things on computer communication network

3.1. The practical influence of the perception layer of the web of things on the computer communication network

As the first step of the application of web of things technology, the role of perception layer is essential. With the progress of the Internet age, the pressure of the perception layer is huge. It needs to identify and distinguish a large amount of information to ensure that the data people need is objective and effective. With the development of technology, the market demand of our society will increase day by day. Computer network needs to carry more and more task information. The computer network is a bridge, with numerous virtual signals and data running on it. When the amount of information is overloaded, the carrier of computer network must be widened [5].
3.2. The actual influence of the transport layer of the web of things on the computer communication network

The transport layer of the web of things is also called the transport layer. It is a bridge to transmit information. On the basis of computer network communication, it combines communication and perception network through computer technology. In the past, Internet technology focused on the exchange and communication of information between people and computers. Web of things technology focuses on the connection between objects and people. Its characteristics include great independence and unlimited space. Therefore, every computer node needs to be strictly monitored and managed. It is a great challenge for the computer communication network that how to aggregate single node to achieve unified management and control under the premise of maintaining high efficiency [6].

3.3. The practical influence of the application layer of the web of things on the computer communication network

The application layer of the web of things refers to taking the processed information as the standard to provide the specified services for users. It can optimize the network settings of various devices to satisfy the different needs of different users. This function is the advantage of the web of things. The application layer is the last step of the application of web of things technology. It can make people and objects form contact beyond geographical limits through the operation of computer. After the web of things develops to a certain stage, it can provide corresponding technical basis and conditions for new applications. At the same time, the gradual emergence of more software can also optimize the application of the web of things. The scale of web of things in China's financial industry is shown as Figure 1.

![Industrial scale](image)

**Figure 1.** The scale of web of things in China's financial industry

4. The development trend of web of things in the construction of information society

4.1. Web of things technology can enhance the connection between users and devices

Although the technology foundation of web of things is Internet technology, its application can not only transfer virtual information, but also realize the technology processing between users and devices. Internet technology has brought great changes to the current society. It is self-evident that the
web of things technology will have a great impact. With the development of economy and society, the relationship between users and devices is getting closer and closer. The web of things technology breaks the geographical restrictions by virtue of the operation principle of the Internet.

4.2. **Web of things technology makes the construction of information society practical**

The Internet can only transmit virtual signals and information, while the web of things can be related to the actual devices. In the Internet, the role of network communication is to manage the information channel and better transmit stable signals. Its weakness is that it can only transmit the signal of virtualization. However, the web of things can be directly related to people or devices, which can solve any technical problems in practical work.

5. **Significance of application of web of things technology**

The emergence of the web of things makes artificial intelligence become a concrete thing. The web of things helps people solve many problems in life and work. Its effect is very shocking. Web of things technology in the construction of information society greatly strengthens the relevance between equipment and computer.

In the process of building an information society, what we should do is not simply to transmit virtual signals, but to participate in the actual construction of the times. Internet technology provides the corresponding guarantee for the web of things. The web of things has realized technological changes based on the operation of the Internet. Its application will help our society develop faster.

6. **Conclusion**

Web of things technology and computer communication network are inextricably linked. Only by solving the contradiction between them can we make their common progress and development. We should give full play to the advantages of the web of things to optimize and perfect the network settings of computers. In this way, we can make up for the technical shortcomings of the equipment as soon as possible. I believe that the web of things will create more profits and value from theory to practice.

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