

# An overview of the influence of IoT on computer communication network

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*Abstract:* With the rapid development of society, computer network technology has also reached a new high, and especially the product of the evolution of the Internet - IoT, the influence of the computer communication network is more and more obvious. Internet of things technology can affect the total number of computer communication network project access to a certain extent, but also enrich the types of Internet communication network, the most important thing is that IoT can improve the stability and security of computer network communication itself, so it is very necessary to study IoT in today's view.

Key words: IoT; Computer communication network; stability

## 1. The development status of IoT

IoT controls the performance of the corresponding physical objects through the transmission of signals, so as to improve the connection between different physical objects. However, this connection is no longer aimed at the transmission of analog signals, but effectively realizes the connection between different objects and carries on the control, so as to further play the role of the communication network. There is no denying that Internet of Things technology has become an indispensable part of our life today<sup>[1]</sup>.

## 2. The framework for IoT

As for IoT, it mainly takes the Internet as the carrier to complete the transmission of data and information through the Internet, breaking the previous situation that it is only limited to the physical space. Internet technology can make use of the transmission signal to complete control of the physical, different types of computer through the LAN, can ensure the whole stability of data transmission, quickness, further broaden the scope of IoT technology for physical control, finally create a set of informatization, intelligent remote-control network. The realization of the functions of IoT includes the main framework of information application module, information transmission module and information perception control module<sup>[2]</sup>.

### 2.1 Information application module

The information application module in IoT mainly contains multiple application software, so IoT system has acquired such a large data resource, through which to complete the control and management of physical objects.

### 2.2 Information transmission module

The information transmission module in IoT mainly includes the section for the implementation of IoT. At present, the information transmission plate relies on a variety of network forms, including mobile communication network,

local area network and the Internet. Different networks accomplish different types of information control through communication technology, thus constructing the information transmission platform and resource control platform of IoT, and finally ensuring the stability and security of information transmission between different sectors<sup>[3]</sup>.

### 2.3 Information perception control template

The information perception control module in IoT is mainly composed of different types of controllers and sensors. It mainly senses the physical objects within the control range of IoT, converts the collected data and information into the format of communication, and then completes the follow-up transmission based on the network.

# **3.**The impact of Internet of Things technology on computer communication networks

According to the above, the realization of IoT function includes the main frameworks of the information utilization module, the information transmission module and the information perception control module. The following is also mainly based on the above three sections to discuss the impact of IoT technology on the computer communication network.

### **3.1** The impact of IoT technology on the perception layer of computer communication networks

In IoT, the perception layer is the foundation of the entire Internet of Things technology. If there is a problem with the perception layer, the entire Internet of Things technology will be paralyzed. The perception layer can obtain the information of all the physical objects covered by the network, and for the perception layer, it will also convert the acquired information and transfer the information through the network, so as to realize the control of the physical objects by IoT technology<sup>[4]</sup>.

#### 3.2 The impact of IoT technology on the computer network communication transmission layer

The transmission layer mainly completes different types of data transmission through the Internet, computers, etc., so that information can be effectively combined through the transmission layer. The application of computer network communication can classify and combine scattered and different types of communication data. The application of IoT is not only a function of transmitting signals, but more importantly, it is necessary to connect people and things to each other through the network. Realize people's faster and more convenient communication. For the supplementary aspect of IoT technology, it needs to be considered in combination with the actual situation. Only in this way can IoT technology play the greatest role.

# **3.3** The impact of Internet of Things technology on the application layer of computer network communication

The impact on the application layer is the core of IoT technology, through the processing of information to achieve the desired effect. IoT technology can promote the effective arrangement and utilization of data in the process of computer network communication applications, so as to meet the needs of people with different needs. In order to enable further development of IoT technology and enable the demanders to have a better experience, people will invest more experience and develop more high-tech equipment. The application layer is the link between people and things and things and things, so that the control of things is no longer restricted by time and space. In order to promote the further development of IoT technology, it is necessary to further accelerate the integration of related industries, so as to realize the accurate exchange of information between things and provide us with better services<sup>[5]</sup>.

### 4.Summary

Nowadays, people's lives are inseparable from network technology, which has also promoted the rapid development of network technology. As an emerging technology today, IoT technology has realized information sharing and promoted the progress of the entire society. At present, my country's Internet of Things technology is still in research and development, and further improvement is needed. It is undeniable that with the further development of IoT, it is bound to play a significant role in promoting the development of computer network communication technology.

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