

# 10 Internet trends will change in 2010

In this article, I will show you a list of 10 trends predicted about what will happen to the Internet in this decade.

**Network Administration - After 40 years of invention, the Internet is currently suffering from huge numbers of attacks and demands are growing from all sides.** There are many studies, ranging from analyzing IP addresses to routing tables, as well as many researches on how to overcome the architecture of the Internet, but there is also a large number of approvals. aspects of the Internet in the future. Here is a list of 10 trends predicted for what will happen to the Internet in this decade.

## 1. The number of Internet users will be more

Today's Internet has 1.7 billion users, according to Internet World Stats. If this number is compared to the world population of 6.7 billion, it is no doubt that more and more people are accessing the Internet in 2010. The US National Science Foundation has predicted that the Internet will reach approximately 5 billion users in this decade. This rapid and continuous development will be a problem for Internet architecture in the near future.

## 2. The Internet will be distributed geographically



Most of the development of the Internet in the next 10 years comes from developing countries. Regions with the lowest penetration rates are Africa (currently 6.8%), Asia (19.4%), Middle East (28.3%), according to Internet World Stats. In contrast, North America currently has a penetration rate of 74.2%. This trend means that the Internet in 2020 will not only reach farther places globally but also support more languages ??and non-ASCII

scripts.

### **3. A multi-component network, not just computers**

The Internet is expected to become a network of devices instead of a network of computers today. Today, the Internet has about 575 million host machines, according to the CIA World Factbook 2009. However, NSF is expecting more 'billion' of sensors on buildings and bridges to be connected to the Internet for use as a security checker. The year 2020 is expected to have a larger number of sensors connected to the Internet than the number of users.

### **4. Bringing a huge amount of data bytes**

Researchers have coined the term "exaflood" to refer to the rapid increase in the amount of data - high-resolution images and videos - being transmitted on the Internet. Cisco estimates that global Internet traffic will increase to 44 exabytes per month in 2012 - twice as much as it is today. In addition, content providers, such as Google, will create this content in lieu of 1st-class ISPs. This shift will require the reconstruction of the Internet architecture to make it an internal network. content, instead of a data transmission network.

### **5. Wireless**

The number of mobile broadband subscribers is booming, reaching 257 million in the second quarter of 2009, according to Informa. 85% increase over the previous year in 3G technology, WiMAX and other higher-speed networking technologies. Asia currently has the most wireless subscribers, but the strongest growth is Latin America. In 2014, Informa plans to have 2.5 billion people worldwide mobile broadband subscribers.

### **6. Many services in the cloud**

Experts also agree that more computing services will appear. Recent research was conducted by Telecom Trends International, estimating that cloud computing will generate an additional \$ 45.5 billion in total income by 2015. That's why the National Science Foundation advises experts to come up with. good directions to direct users and applications to cloud computing infrastructure. They also recommend research experts on latency and other performance metrics for cloud services.

### **7. Greener**

Today Internet activities consume a lot of energy, experts say, the future Internet structure needs to be more energy-efficient. The amount of energy consumed by the Internet will double from 2000 to 2006, according to Lawrence Berkeley National Laboratory. However, the so-called 'energy intensity' of the Internet will increase more slowly than data traffic partitions because network technologies become more energy-efficient. The trend of green Internet will grow as well because the price of energy will certainly increase, according to experts, it is necessary to have Internet routing based on what is gained about energy.

### **8. Network management is more automated**

Besides security weaknesses, the biggest weakness of the Internet today is the lack of network management techniques attached. That's why the National Science Foundation is looking for new network management tools. Along with these ideas: there are many ways to automatically reboot systems, self-diagnosis protocols, finer data collection and better event monitoring monitoring. All of these tools will provide more information about the state and health of networks.

## **9. Don't rely on 'always-on' connection**

Many users in remote places as well as many users depend on more wireless communication, which makes the architecture of the Internet require changes, it is not necessary to have 'always-on' connections. Instead, researchers are looking at communication technologies that can be slow or can relay communication from one person to another in the most appropriate way, especially for mobile applications. . It is even necessary to have completely new Internet protocol studies to bring about retention tolerances that meet new requirements.

## **10. Attract hackers more**

By 2020, there will be more hackers attacking the Internet because at this time there will be many important infrastructure will be online. Currently the Internet is under the siege of attack, criminals launch more and more serious web attacks against users. Symantec discovered 1.6 million new malware in 2008 - twice the amount discovered last year (600,000). Experts say these attacks will be more sophisticated and broader as well as more focused in the future.

More than anything, computer scientists, who are working to redesign the Internet are trying to improve its security. Experts say security can be an add-on in a redesign of the Internet. Instead of a new Internet must be rebuilt from scratch to have a secure communication platform. In particular, researchers need to discover many new ways to ensure that the Internet of 2020 will ensure privacy, integrity and a robust authentication structure.

## **11. Your prediction about the Internet in 2020**

What do you think the Internet will look like in the next decade? Please make your predictions in the feedback section of the article.

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