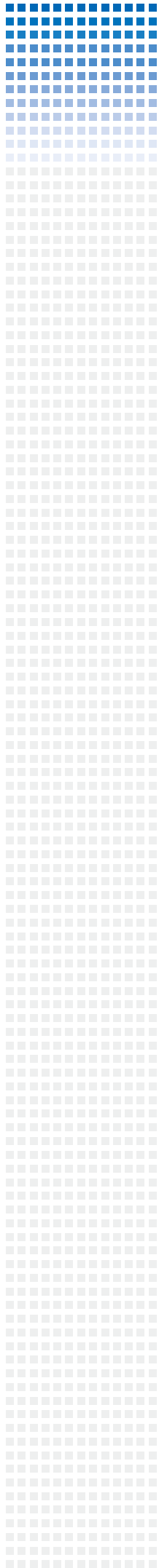


AscenVision **Success of AscenFlow in** **Princeton Technology**

AscenVision Technology Inc. The Intelligent Network Provider



Background

Princeton Technology Corp (PTC), a public traded company in Taiwan OTC since 2001, is a professional IC design company with HeadQuarters in Taipei, Taiwan and several branch offices in Hsin Chu (TW), Hong Kong, Shenzhen, and Shanghai of China.

Since its establishment in 1986, PTC has become a leader in the consumer IC design market in Taiwan. Dominant products include Multimedia Audio Controller ICs, Display Driver ICs, Remote Control ICs, and Encoder/Decoder ICs. Being the role model company, PTC provides system solutions to satisfy the various needs in the market. Its products can be applied on DVD, VCD, portable audio players, digital TV, home appliances, and home/office/car security systems. With the strength in analog design capability, digital design capability, and mixed mode design capability, combined with the strong supports of the world's leading foundry partners, PTC is capable of offering its customers products with best quality.



Challenges

Since PTC has been expanding its business to the mainland China and other regions, the business operation depends more and more heavily on the Internet. The fluctuated Internet connection and limited bandwidth, however, significantly influence the communication and productivity of the headquarters and branch offices. Followings are the main problems bothering PTC's MIS team:

[Challenge 1]

How to ensure streamlining performance of bandwidth-critical applications such as VoIP and Video Conference

PTC headquarters and its three main offices in Hsin Chu, HongKong, and ShenZhen conduct conference calls via MOSA or Video Conference everyday. Latency-free and jitterless audio or video transmission over the Internet, therefore, is the top challenge striking the MIS team.

[Challenge 2]

How to improve scalability to meet PTC's future business expansion requirements

As a professional IT corporation, PTC understands well the importance of the infrastructure scalability. Although, the current needs are to smooth the performance of audio and video conference, PTC will gradually implement more mission critical applications such as ERP, File Server, Central Authentication System, and so on in the coming future and achieve "LAN-like" performance among all offices. How to achieve a reliable and versatile traffic management solution with flexible scalability, therefore, is another challenge to the MIS team.

[Challenge 3]

How to improve the bandwidth utilization and accelerate the transmission speed

The three branch offices are connected to the corporate network in Taipei via MPLS (Multiprotocol Label Switching) technology. Each office deploys a public line from CNLink to achieve communication and sharing of text, graphics, voice, and video data. Due to the rapid expansion of business, the existing public line can no longer cater to the increasing business requirements. How to efficiently utilize the available bandwidth and reduce application response time, therefore, is a cost-effective and preferable solution to improve the network quality of service.

[Challenge 4]

How to monitor long-term network status to achieve better network management

It is significant for MIS team to monitor and analyze the long-term network utilization so as to predict and deploy a set of more adoptable network management policies for optimal network environment.

Why AscenFlow

PTC has conducted a series of extensive studies among numerous WAN traffic management devices in the market, and found AscenFlow impressing them most with its constant reliability, transparent deployment mode, and intuitive administrative system. After the follow-up intensive investigation, PTC eventually picked AscenFlow as the Layer 7 traffic management and QoS solution due to not only AscenFlow's trustworthy performance but also AscenVision's client-tailored pre and post-sales technical supports and services.

Solution

AscenFlow is deployed into PTC's existing network infrastructure and is configured as follows:

1. AscenFlow is seamlessly integrated with the MOSA gateway to greatly improve the quality of VoIP. With its QoS mechanism, AscenFlow identifies the audio and video traffic in Layer 7, assigns higher priority, and reserves bandwidth to them so that conference calls and video conferences are supercharged.
2. AscenFlow is embedded with hundreds of application protocols, and is capable of recognizing a wide variety of mission critical applications and reserving sufficient bandwidth. Employees in different offices, therefore, can efficiently use the applications and enjoy LAN-like performance.
3. AscenFlow's powerful compression module can compress multiple types of data to maximally offload the network traffic. Without adding more bandwidth, transmission speed is effectively accelerated.
4. AscenFlow's authentication system can be integrated with various user account management systems such as LDAP, RADIUS, and so on. Together with the build-in Quota system, AscenFlow enables the MIS personnel to come up with a more flexible account management system of bandwidth utilization.
5. AscenFlow's companion tool FlowReport provided comprehensive analysis and reports of different network traffic patterns. MIS personnel can well grasp the network conditions, adequately predict network usage patterns, and take suitable reactions accordingly.



Benefits

AscenFlow helps PTC achieve following key benefits:

1. Network congestion is prevented from ineffective bandwidth usage policies. In addition, sufficient bandwidth is reserved to mission critical applications so that productivity is effectively improved.
2. AscenFlow accurately identifies and effectively curbs the rampant usage of P2P applications, so that valuable bandwidth is saved for more critical applications.
3. The available and valuable bandwidth is properly allocated according to the real-time network conditions by comprehensive analysis of traffic patterns in Layer 7, as well as suitable traffic shaping policies on the basis of user, source, destination, and so on.
4. AscenFlow's transparent mode and intuitive web-based user interface ease MIS team's burden of administrative work and increase the quality of services.
5. AscenFlow ensures the reliability and improves the performance of the network. Powerful FlowReport helps MIS personnel pinpoint abnormal traffic patterns and take immediate corresponding actions.