



"Full-service, Secure, Reliable and Manageable" Large Enterprise Network Solutions

Enterprise with the top-class network

Enterprise informatization refers to the process of applying the information network technology, computer, Internet and E-business to the market research, product development, technical reform, quality control, supply chain, cash flow and product distribution for realizing the informatization. The purpose of enterprise informatization is to improve the operation efficiency and lower cost, to further enhance the competitiveness of the enterprise.

In the age of global economy, fierce competition and rapid development of information technology, the informatization has become a lifeline and core competitive force. Whether to implement informatization is no longer a problem of enterprise development, but that of survival. In this background, enterprises that pursue this strategy have naturally made a good choice.

1. Requirements analysis for enterprise informatization application

The core of enterprise informatization takes the form of various application systems of the enterprise, which can be divided into the following categories:

Office automation system

Supply chain management system, such as MRPII, ERP and SCM.

R&D support system, such as CAD, PDM/PLM and CEC.

Marketing and sales management and customer service system, such as Call Center and CRM.

Human resource management system

These systems involve all aspects ranging from R&D, finance, production and supply chain, which are the brain and nerves of enterprise operation, imposing a strict requirement on the reliability, safety, multi-service handling capability and performance, manageability and easy-to-use. In addition, many applications in modern enterprises are not those of pure data, such as employees' online study and the coordinated development among R&D

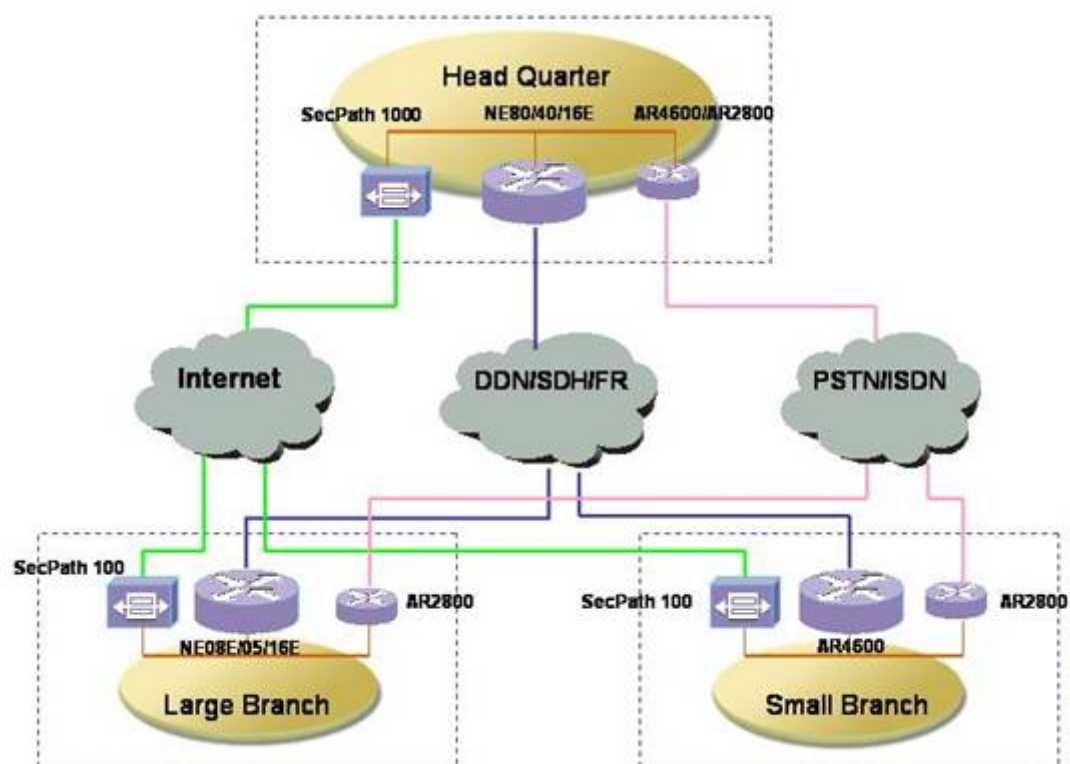
personnel. They are multimedia applications, in this case, the traditional network, which features no QoS and safety requirements, best effort in data transmission and no hierarchy for services and users, is no longer able to meet the requirements of modern enterprise informatization. Therefore, the modern enterprise informatization requires a network featured by "end-to-end QoS capability, safety control, full-service transmission of customization". Specifically, the requirements on networks are:

High reliability, high safety, full service, high performance and easy-to-use/manage

2. Huawei-3Com enterprise informatization network solutions

Considering the trend of network development and the investment benefit of broadband network, Huawei-3Com Co., Ltd. put forward the following solutions with the current network situation taken into account.

2.1 Huawei-3Com large enterprise WAN solutions



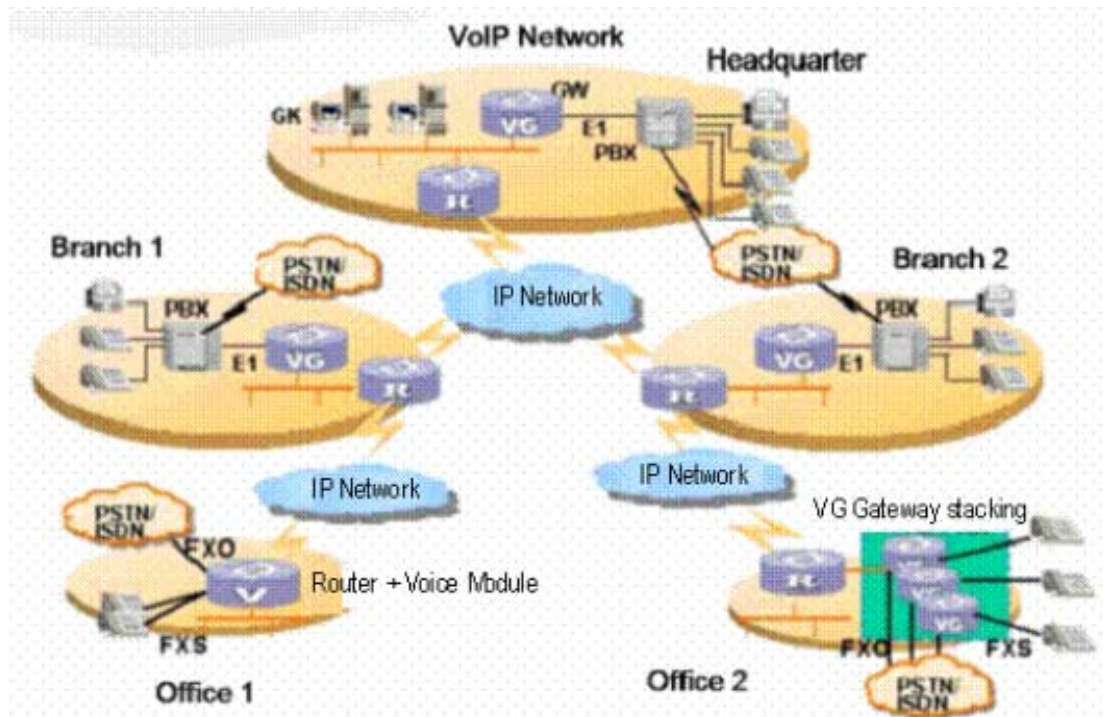
When constructing the large-sized enterprise WAN, the DDN/SDH/FR can be selected as the backbone of the backbone link, using Internet VPN or PSTN/ISDN as backup link. On the selection of equipment, Huawei-3Com can provide high, medium and low-end full range router products to meet the Internet demands. For the large-sized enterprises, their headquarters can use the high security, reliability and high performance Quidway NE40 universal switch router (USR) as the core router, and their large branches can select

Quidway NE16E/08E series high-end router of Huawei-3Com, and their small branches can select the Quidway AR2800 series medium-end router that can be flexibly extended. The Quidway series router provide flexible solutions to select the interface modules, and to meet the networking requirements of POS, SDH, DDN, frame Trunking, PSTN and ISDN, and provide the VPN function. The medium-end modular router can provide voice modules such as FXS/FXO/E&M/E1 trunk, while being used as the backup router and VOIP gateway, thus saving the enterprise investment.

2.2 Huawei-3Com large industry park network solutions

The large industry park network can use the hierarchical system design, its core layer uses the NE80/NE40 core router of Huawei-3Com for the RPR ring networking, which provides 50ms carrier-class protection changeover mechanism, its convergence layer uses the Quidway S6500 series or the Quidway S5000 core Gigabit routing switch, and its access layer uses the Quidway S3000/S2000 serial high price performance rate Ethernet access router, the entire network provides end-to-end high quality QoS, controllable multicast and powerful service support capability, and at the same time, it provides the NMS powerful in functions and easy in operation.

2.3 Huawei-3Com VoIP Solutions



Huawei-3Com Corporation uses the mode of VoIP gateway as the solution, capable of effectively implementing the smooth transition from PSTN to the VoIP network. It protects the investment by users on the traditional telephone system while keeping the network in a good extension, and implements the mutual backup between PSTN and VoIP network. Huawei-3Com provides the Quidway AR2800 router voice gateway series and the VG-series dedicated

voice gateways, with the E1 trunk interface, the FX0 interface and the FXS interface, supporting stack and the VoIP convergence, so that the user can flexibly meet the demands of networking.

2.4 Huawei-3Com enterprise VoIP solutions

Huawei-3Com provides the VPN solution for such technologies as L2TP, IPSEC, and GRE VPN, and users can set up the Site-to-Site VPN, Remote Access VPN and Extranet VPN tunnels in the flexible access modes. Huawei-3Com VPN solutions can easily pass through NAT, making line selection easier. The dedicated dynamic VPN technology makes quite easy the VPN configuration of the entire network, which greatly releases the workload of administrators in configuration and maintenance. Huawei-3Com Remote Access VPN client is integrated with the dynamic password card, providing the double-element dynamic password authentication mechanism of VPN users, and greatly improving the safety.

2.5 Features of Huawei-3Com large enterprise network solutions:

Full service: fully meet the requirements for data, IP voice and IP video service transmission, saving the operation cost and improving the efficiency of network platform utilization.

High security: provides an integrated safety system structure, covering all the layers of the system, using the safety measures such as ASPF, authentication, authorization and port bundling, to ensure the safety of networks.

High efficiency: provides the high quality QoS guarantee, providing different services with the services at different priorities and determining bandwidth based on priority to ensure the high efficiency of the entire data transmission.

High reliability: meets the application safety of the entire network and stabilizes running through the advanced backbone network technology RPR, high quality products, redundancy network design and end-to-end manageable technology.

Easy management and maintenance: implements the uniform configuration, batch configuration through stacking, cluster, HGMP and uniform NM technologies, to achieve easy and convenient network maintenance and management.