

Chapter 6.

Conclusion

We have given an exhaustive description on the designing concepts and implementing methods of the Chassis-Based gigabit IPv4/IPv6 translator based on NAT-PT specification brought up by IETF in our thesis. In the early period of the migration from IPv4 to IPv6, we do have the need of the NAT-PT gateway to provide such a transparent transfer between the two entirely different network environments until the lifespan of IPv4 is coming. Moreover, for some Internet services like DNS and FTP, those who would be wildly used by most of the network users have to also build in the NAT-PT translator.

While the network processor-based system becomes much popular for implementing network applications, it can bring us much flexibility and high-speed which are difficult to be resisted, we take it as a module into the chassis platform furthermore. In the future, we can integrate many useful functions into chassis-based system as one multi-service platform. For example, we can add the other NAT-PT card for load balancing or high availability. Further, we also can put the function like security issue and quality of service together embedded in the Chassis-Based platform for better service.