

Voice over IP (VoIP) Applications of Peplink Balance

Enabling Reliable and High Quality VoIP Service

Overview

Many businesses use VoIP, or Voice over Internet Protocol, as the preferred method of communication over conventional methods. VoIP draws its advantages from being more cost effective and versatile than traditional telephone services, but has its limitations as well.

These application notes outline the importance of network environment in using VoIP services, as well as the role of Peplink Balance in such network settings.



Context and Challenges

While VoIP is usually more cost effective and offers greater functionality than traditional phone services, it is heavily dependent on the network connection of the user. Specifically, VoIP is highly dependent on the user's network reliability and quality.

Without a working network connection, users are unable to make or receive VoIP calls. Hence it is critical for businesses to make sure that the uptime of their network connection is maximized.



Network quality directly affects the quality of the phone calls made. If the speed or bandwidth of the network connection is insufficient for VoIP, users may experience latency or jitter during phone calls.

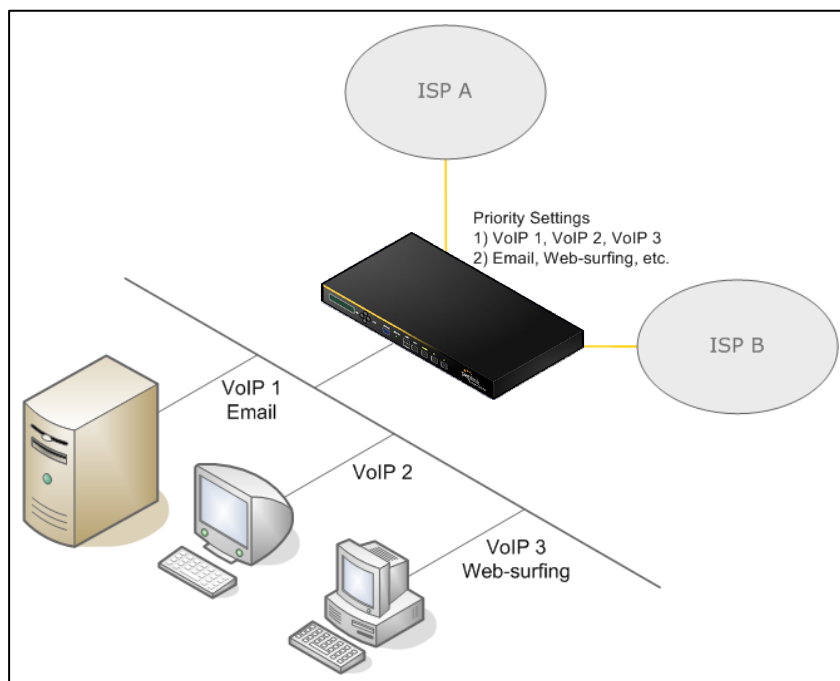
Furthermore, businesses usually share their network connection between VoIP services and other network services such as email and web. Users may experience a further decline in the quality of VoIP service at times of heavy network traffic, which is hard to predict and account for when initially setting up the network.

The Solution: Peplink Balance

Peplink Balance is the answer to ensuring reliable and high quality VoIP service.

Peplink Balance:

- Increases network availability and bandwidth by combining multiple WAN links easily and transparently.
- Intelligently detects and distributes VoIP call sessions across all of the available Internet links.
- QoS allows prioritization of VoIP call sessions over other network usages such as web, email, etc.



In this example, Peplink Balance 380 handles three VoIP connections, email and web. It prioritizes the information according to its user settings and balances the network load over ISP A and ISP B.

Other Considerations and Benefits

For further details on the applications and benefits of the Peplink Balance series, please visit our website at www.peplink.com.