

Long Question :

1.A Various Internet Voice Applications :

* It is a technology that allows you to make voice call using a broad band internet connection instead of regular phone line.

Internet Voice Applications :

* The evolution

* current audio products and Applications.

- Audio broadcast
- Group conferencing
- Telephony

workings :

* Internet audio and telephony applications employ efficient software driven codes on a personal computer or work station to digitize and packetize voice information for transport via internetwork protocols such as SLIP, PPP, TCP or UDP and speakers and analog-digital conversion.

* These applications use the computer's multimedia hardware for input/output devices eg. microphones

Delay :

* Delay is only significant in two-way communications. Delay is accounted for by buffering a certain amount of voice information in order to compensate for variations in network transit time between caller's

One-way Audio Broadcasts :

- * Application - radio stations, services, or corporations.
- * A centralized server digitizes the audio and

either transmits it in real time to Internet - attached users, or stores the compressed audio on the server.

Two-way conferences :

- * Two-way conferencing applications are very popular among non-commercial users. A modified chat-server implementation is used to connect multiple users.
- * Half-duplex communication is the norm, but some available applications allow limited whiteboard and collaborating computing capabilities.

Future directions :-

- * multitasking and collaborative applications will benefit from increased platform capacity and connection speed as well.
- * Applications that employ images, video, whiteboarding, and console-sharing may be performed in real-time.

Responsibilities of Service Providers :

- * Infrastructure development
- * performance metrics
- * predictability.
- * Fairness
- * accessibility to a broad user base.

Building an IP PBX Telephony Network :

- * PBX manufacturers fulfilled this need by installing a mainframe computer into the enterprise and connecting a proprietary line card interface to either analog phones or proprietary digital phones. The connection out to the PSTN was established through a trunk interface card.

* The third generations , tomorrow's PBX , is the IP Internet Protocol . based PBX .

* Instead of using a line interface card and circuit - Switched card , it uses the TCP / IP network switching voice packets through an ethernet , ATM , frame relay , ISDN , or whatever satisfactorily carries TCP / IP

Advantages :-

- * lower costs
- * Increased accessibility
- * complete portability.
- * Higher Scalability.
- * clearer voice quality.

The most popular examples of VoIP services are Skype and whatsapp.

* — * The end * — *