VoIP

Voice over Internet Protocol

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Features of VoIP technology

- **Advantages**
  - Statistic multiplex
  - Load sharing
  - Integration of services
  - Convergence of telecommunications networks
- **Disadvantages**
  - Voice signal degradation
  - Quality of service
  - Cooperation between equipment of different manufacturers

Used transport protocols

- **H.323**
  - Developed by ITU-T
  - The first international standard for VoIP
  - The best used protocol in this time
- **SIP**
  - Developed by IETF
  - Newer and less used then H.323
  - Protocol is being still developed

H.323

- The first international standard for VoIP
- Designed by ITU-T
- It uses standard E.164 (standard telephone numbers) for network addressing
- Easy interconnection to PSTN
- Complex protocol which is integrate many services
- Binary oriented protocol
- Logical topology with central points

SIP

- SIP has been developed by IETF primary for Internet
- It uses text strings to addressing
- Many problems with interconnection and cooperation with PSTN
- It is not one protocol but family of protocols
- Text base protocols
- Decentralized logical topology

Summary

	H.323	SIP
Addressing	E.164	Text stings
Cooperation with PSTN	No problem	Problem
Protocol orientation	Binary	Text