



Internet and telecommunication

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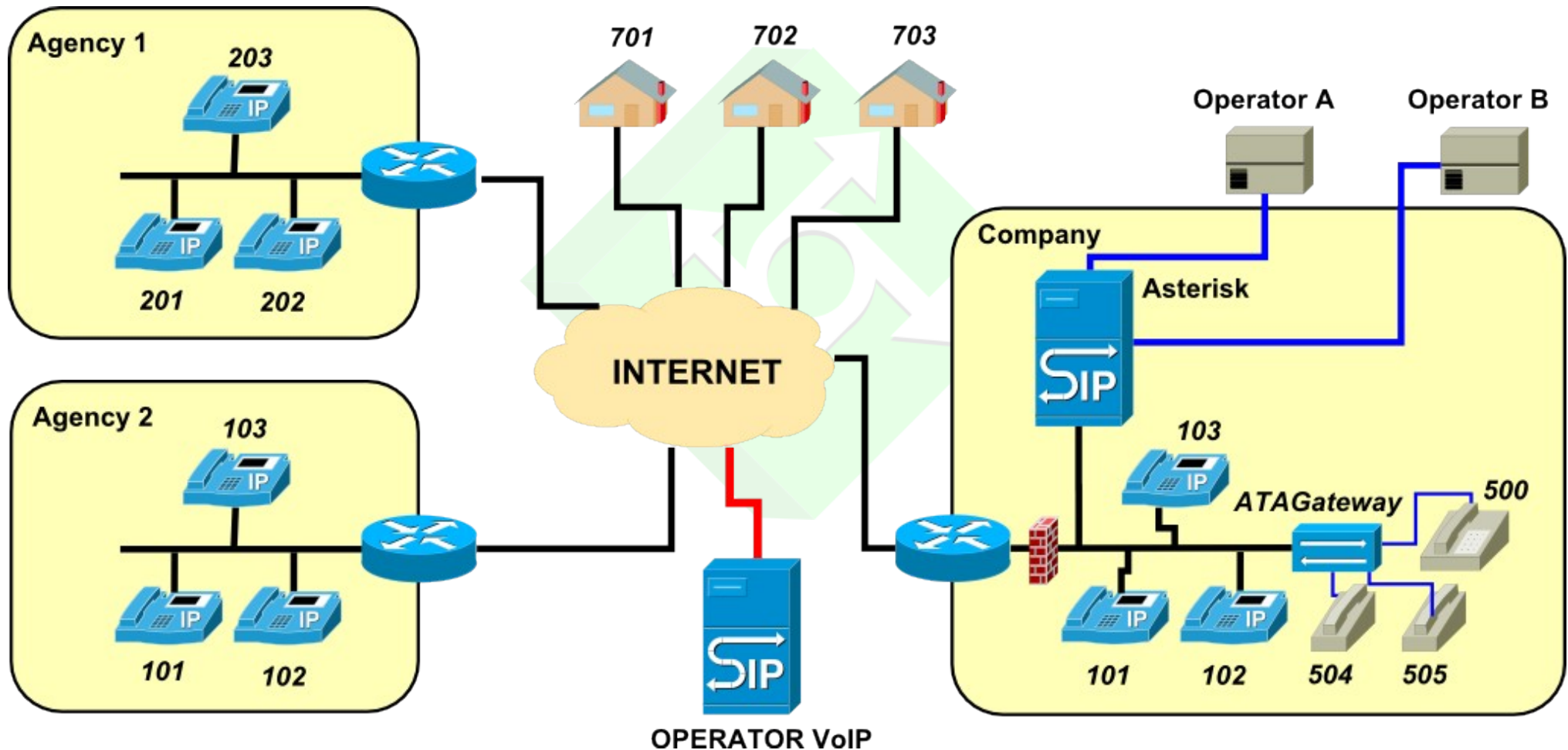


VoIP – Telephony of the new generation

VoIP - technology which enables sending sound (voice) by internet links or dedicated nets using family of the IP reports, broadly known as the internet telephony. Using VoIP lets limit the costs of connections definitely, as well to the local operators as abroad.



IPPBX – Advanced client switchboard





VoIP – Advantages

- minimization of the costs of the telephone connections
- full billing and control of connections (blockades)
- graduation – possibility of unlimited extension to any amount of telephone units
- independence – possibility of choosing any local or foreign operator.



VoIP - Disadvantages

- Lack of contact in case of power disappearance (use of the UPS devices for the key elements of the net eliminates the failure)
- Costs of the VoIP devices



VoIP – Technical requirements of the service

The internet telephony service requires fulfilment of the given conditions:

- Possession of the net infrastructure at the posts (computer net)
- Possession of the SIP server with the IPPBX software
- Possession of the IP telephones or the ATA gates to connect the analog telephones.



VoIP – Costs of the installation of the service

Cost of the installation of the service depends for the most part on demands of the client, package of chosen services as well as on used equipment (SIP application server, IP internet telephones or ATA gates) and requires advance agreements.



VoIP – Possibilities

- Own SIP server (equipped with the net gates) and VoIP devices [1]
- own SIP server and VoIP devices [2]
- only VoIP devices and use of the external SIP server [3]



VoIP – Own SIP server with the gates.

This solution is the most expensive one, however lets minimize the costs the most, keeping the previous telephone net at the same time. Lets also adjust the teleinformation infrastructure to the requirements of the enterprise. The SIP server can simultaneously fulfil any other net functions (WWW server, e-mail, firewall, etc.)



VoIP – Own SIP server

This solution is the cut version of the SIP server possessing the gates. The only difference is the lack of possibility of introducing previous telephone lines to the new teleinformation net of the enterprise.



VoIP – The SIP server outside the firm

The cheapest and also the least configurable solution letting talking on the phone in the service of the unfamiliar operator. The advantage is the cheapest cost of the installation.

Whereas the disadvantage is making all the connections through the links of the external operator (usually by the internet)



VoIP - Summary

VoIP services make up the most developmental branch of the telecommunication and thanks to the integration with the internet web are the cheapest way of voice communication between workers in different departments of the firm or the enterprise. Investment in the VoIP service reimburses in very little time.



VoIP – The End

**Thank you very much for your
attention.**

You are welcome to ask questions.