



➔ Voice communications over broadband wire line network

"Topex solution for voice communication in the broadband network is flexible and easy to deploy. It helped us to enlarge our portfolio of services and therefore to expand our offering. Following implementation of Topex solution, we were able to better respond to our clients requirements, we developed our client base and we acquired a unified network for voice and data transmission at the same time. We are very happy with the results of our cooperation with Topex team, which proved to be very professional and responded promptly to our needs."

*Danielescu Mihai
General Manager
BP Office & Service
Contact: 0040 237 235 557*

➔ Opportunity

Today technologies are in continuous change. More and more ISPs upgrade their networks from data transmission to voice communication offering to their clients, complete services for data and voice.

➔ Clients demands

- Our client, BP Office, is an Internet service Provider in the city of Focsani.
- BP Office approached Topex with the requirement to upgrade its existing IP network to voice services.
- The client already has an IP network through all the city of Focsani based on optical fiber, offering broadband Internet and now he offers also voice services to its clients.
- The customer base is of hundreds of clients and is forecasted to grow to 1000 subscribers by the end of the year.
- Topex responded to this demand by upgrading the network offering in the same time large capabilities for further development.

Solution

- Topex offered consultancy, implementation and testing for the network upgrade.
- The solution for this customer is a Topex Media Gateway Qutex - with VoIP connection and E1 SS7 connectivity with capabilities for further development of the network. In the end user part, the operator installed at the client premises an ATA adapter with possibilities for analog phone and fax connection.
- The data base is running on an external server with advanced capabilities for billing provided by the media gateway features, like: advanced system for Least Cost Routing, Load Balancing, and Detailed Call Record. With Topex Media Gateways you always have the option to keep the data base recorded directly on the equipment without the need of an additional PC.

- The operator has interconnection with the incumbent operator, Romtelecom, with SS7 signaling protocol.
- The versatility of the equipment provides to the client further upgrades for interconnection with other networks like GSM, CDMA or UMTS networks and also with other fixed operators through E1 trunks. He also has the possibility to upgrade the equipment to a softswitch solution, Topex mX, managing this way the entire network through its advanced functionalities. Topex mX offers level 4 and level 5 services.
- Through this solution, all the subscribers have access to the voice services with no fees and to the data network, both provided by the same operator.

Technical Specifications

- Qutex is a range of products for VoIP communications, supporting all kind of interfaces like BRI, PRI, E1 and UMTS at the same time.

Depending on your communication needs, this equipment can be:	<ul style="list-style-type: none"> - VoIP to GSM / UMTS gateway - E1 to GSM/UM gateway - VoIP to E1 gateway - Protocol signaling converter - IP PBX
The equipments supports	<ul style="list-style-type: none"> - 1 VoIP card, - up to 4 PI trunks, - up to 10 GSM/UMTS channels, - up to 20 BRI lines, up to 40, - FXS / FXO connections.
Signaling protocols supported:	<ul style="list-style-type: none"> - R2 or DTMF, Q.421/422, Q.411/412 - SS7 associated / non-associated mode - ISDN with QSIG, DDS1, Q.931 - VoIP: H323 and SIP

