



➔ *Implementation of VoIP network by alternative carrier*

➔ *Opportunity*

- The market for advanced communication services for corporate sector is growing at a steady rate. Corporates and their customers are demanding advanced communications services. They want greater choice, enhanced services and the opportunity to be more productive and to expand their customer portfolio. They need a simpler, integrated communications experience.

- Corporates need services that enable them to work more efficiently with their suppliers, to simplify internal processes within their organizations, to enhance their customer services and to reduce costs.

➔ *Clients demand*

- Our Datek is an integrated telecommunication networking company. Datek provides infrastructure, data, voice, and mobility services to corporate clients. Communication includes fiber optic, radio, and satellite environments.

- Complete telephony solutions are offered via dedicated infrastructure for national as well as international calls aligned to traffic and user requirement. Voice services are dedicated to companies seeking very good quality at affordable tariffs.

- The client approached Topex with the request for a low scale softswitch with advanced possibilities for further upgrades, which should be deployed in multiple points of presence (POPs) or as a cluster of servers for scalability and high availability.

➔ *TOPEX Solution*

- Topex proposed a Class 4 softswitch with RTP proxy for a low entry number of calls, such as 100, and support for interconnections with multiple operators, both incumbent and alternative.

- Forwards SIP requests to other SIP based applications or networks or routes the request to other SIP based application or networks. Typical SIP interactions include those with public switched telephone network (PSTN) gateways, other SIP networks and session border controllers (SBCs) that manage connectivity to a peer provider, or to a local Media Gateway Controller Function (MGCF) such as the Cisco PGW 2200.



Technology

- Topex multiSwitch is a carrier-grade softswitch solution that provides call-control, multiple services and multiple types of signaling. It features Class 4 and Class 5 telecom services over an IP-based infrastructure.

Main features:

- TOPEX multiSWITCH provides call-control intelligence for establishing, maintaining, routing and terminating voice calls
- SIP-based Softswitch solution
- Billing capabilities including detailed CDR data; RADIUS interface, MySQL and PostgreSQL interface
- It serves as an interface for enhanced service and application platform.
- It is suitable for enterprises that manage their own communications network.
- TOPEX multiSWITCH allows rapid deployment, full support for multi service, multi access, multi media and mobility applications.

Applications

- The network consists in interconnection with the National Incumbent Operator, Romtelecom, with several other Alternative Voice Providers and also with corporations with extended needs of national and international communications.

- With Topex multiSwitch, the voice network of Datek achieves routing of the traffic both to fixed national and international telecommunication networks, call origination and termination in fixed or mobile networks, transit and access to additional services.

- The key features include: multiple configurable and hierarchical routing policies; multiple configurable normalization policies; trigger-based selection of policies; multiple independent routing and normalization plans; multistep routing policies consisting of any number of configured route steps; normalization; routing; Call Admission Control and diverse Management functions.

