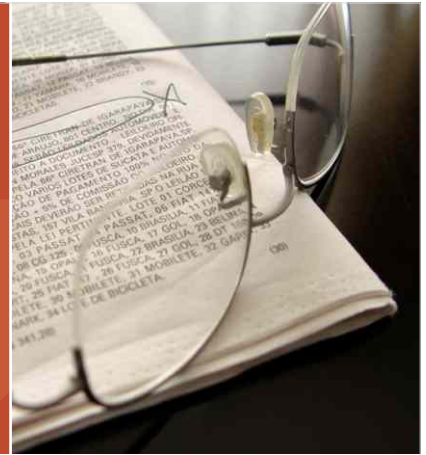


Case Study

Porting of a voice encryption software from Windows Mobile to Symbian



➤ THE CUSTOMER

A Germany-based leader in real time encryption software. They develop military-strength encryption software and hardware, and manufacture a wide range of electronic and telecommunications equipment for GPS and mobile telephony services.

➤ BUSINESS NEED

They had an existing voice encryption software based on Windows Mobile and wanted a Symbian mobile-based client side solution for voice communication over a secure channel for mobile phones.

They wanted the application to mirror the client side Windows application with the following features: Contact list Management – View, Search, Add, Remove users to contact list; Call users using calling list or manually dialing user ID; Login/Logout settings, audio settings etc

➤ THE SOLUTION

Aspire ported the Windows mobile application to Symbian 60 platform. The client application that was built secures mobile phone conversations in real time to prevent phone tapping. The solution was engineered in a manner to work with the existing server-side application.

Features

- All voice data is encrypted leading to secure voice calls
- Calls can be conducted through the 3G interface, or wireless LAN interfaces if available
- Calls can be peer to peer based, depending on the NAT setups
- The app also communicates with Media-server

Value Delivered

- Application was successfully tested for Symbian 3rd generation mobile phones
- Cryptography based module developed – Encryption using Base64 encoding, AES encryption, RSA encryption & Hashing using MD5 sum, SHA256 & CRC computation
- Speex Codec module was built to encode raw voice data in audio data
- The design, development and testing of the application was done in a very aggressive time frame

Technology

- *Carbide C++ IDE*
- *Symbian*
- *SDK of Symbian development platforms*



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➤ USER INTERFACE



ABOUT ASPIRE

Aspire Systems provides end-to-end software development services to Independent Software Vendors (ISVs)/packaged software providers, Software-Enabled Businesses and Innovative Enterprises.

Our development teams are spread between our Global Innovation Center in Chennai and Gurgaon, India, and offices in the United States, UK, Germany and UAE.

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