

eChat

Bringing Secure Communication
to the Next Level



Product for the Present and Future



- Encrypted instant messaging program
- For small- to medium-sized businesses
 - Ensures secure communication over wired AND wireless networks
 - At a low cost

What Makes Us Stand Out



- A relatively light-weight client
- A better, more professional user interface
- Affordability
- No ads

More Benefits



- Features that are relevant to businesses
 - Secure RSA encrypted messages and files communication
 - Grouped and location-independent contact lists
 - User profiles with business contact information
 - Group conference messaging
 - Server-side logging and archiving



How will it work?

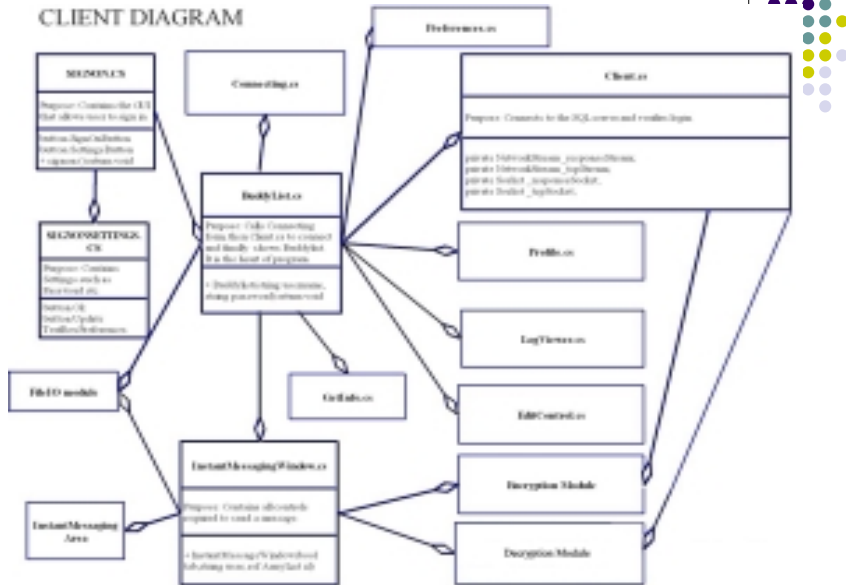
- An extension of the open source *ZX2C4 Instant Messenger* program
- A Client-Server architecture
- Encryption algorithms
 - RSA public key/private key
 - AES symmetric key
 - MD5 one-way hash



Client

- Sign-In Window
- Contact List Window
- Instant Messaging Window
- File Transfer Window
- Profile Window
- Preferences Window
- Logs Window

CLIENT DIAGRAM

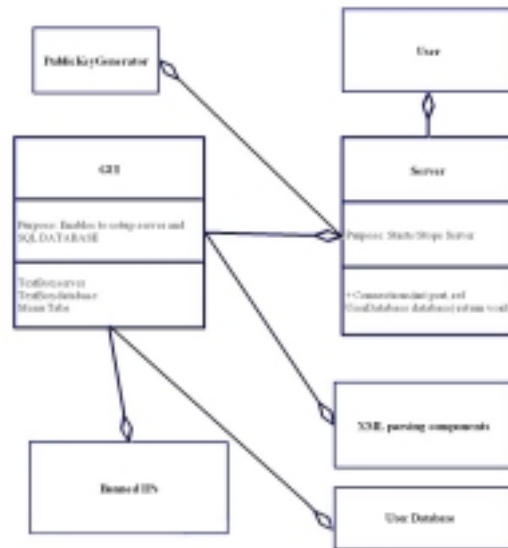


Server

- GUI Module
 - Sign-In Window
 - Main Admin Window: Port#, Start, Stop
 - SQL Settings Dialogue Box
- Database Module
 - Username
 - Password
 - Profile
 - Status
 - Away Message
 - Contact List
 - AES Session Key



SERVER DIAGRAM



Cryptography

- Encryption/Decryption/One Way Hash Module
 - RSA
 - 1024-bit public/private keys for server
 - AES
 - 128-bit symmetric keys shared by client and server
 - MD5
 - 128-bit hashes to check message integrity and generate symmetric keys

System Requirements

Minimum Client Requirements

- Microsoft Windows 2000 operating system or better
- 300 MHz processor
- 128 MB RAM
- ~2 MB hard disk space for the client, and ~24 MB for the (optional) .NET Framework Redistributable Package v1.1
- Internet connection (56Kbps or faster)

Minimum Server Requirements

- Microsoft Windows 2000 operating system or better
- Microsoft SQL Server 2000
- 500 MHz processor
- 256 MB RAM
- 5 GB hard disk space
- Internet connection (300Mbps or faster)

WILL it work?

- Areas of largest risk
 - Speed
 - Existing ZIM bugs
 - No comments in existing code
- A well-planned schedule

Schedule

- <http://tinyurl.com/6vfv2>



Any Questions?

