Voice Activated Door Lock (VADOL) – (PBX)

VADOL controls access to a door secured by an electro-magnetic lock. The access is based on user voice samples (when user speaks his registered pass phrase) getting validated on a remote Voice Authentication Server. The Voice Authentication Server is connected to the Voice Door Lock using telephone lines.
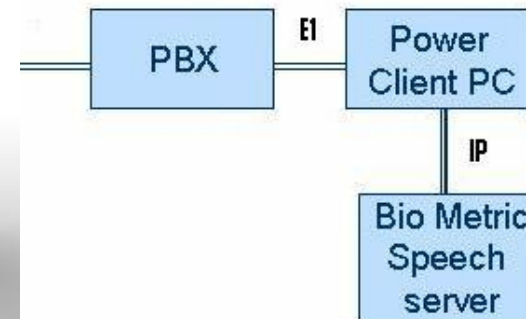
Features

1. Secured door lock system. Bio-metric server will provide authentication only for original voice.
2. Authentication response from the server is encrypted
3. Easy registration and user friendly authentication
4. Automatic door opening system in case of fire alarm signal detection
5. Keypad used for User PIN entry & authentication in case of PABX failure
6. Battery backup
7. Fail safe operation
8. Low cost solution

Cypress PSOC based Controller

Milestones Achieved/Current Status

➢ Completed schematics, Layout, Fabrication and Testing of Rev 1.0 Door Lock

➢ Integration testing at IITM Research Park to be undertaken

Team is also working on a prototype of the product using VoIP