SoftHouse

The House of Software Development

▶ **Progress**
▶ **Passion**
▶ **Brainpower**
▶ **People**

Embedded
Mobile payments
Prepaid solutions
Multimedia and
  entertainment
Security

Embedded Solution

▶ Prepaid Electronic Systems-Verifone Terminals

▶ Abstract

Our customer is a very important German company that offers prepaid services for their customers. We developed a complete solutions based on Linux server changed and adapted for our needs. The goal of the project was to create a very customized server application with possibility to add multiple other plug-ins for any other customer. The main application is split in four big components:

- Interaction with terminals
  - Database engine and main application
  - Web interface (based on Apache server)
  - o We are offering web administration of the system in local network or over Internet
    - o High security level and multiple level access
    - o Launch of modules (ordering of PINs from providers, printing of payment orders and so on) via Web interaction
    - Main application, which connects all these modules into a compact and secure system.

Advantages:
- There is no need for any license (on server side)
  - Each functionality is developed as a plug-in so you can add in the future other functionalities by developing such kind of plug-ins and modifying the XML script which determines the functionalities of terminal and server.
  - The terminal can make connections to the server through TCP/IP (secure connection), GPRS connection for mobile terminals

▶ Technologies

C, C++, Sockets, HTTP(S), TCP/IP, GSM, GPRS, EDGE, SS (Single Step), MySQL, Perl, HTML, Templates, QT, XML

▶ Credit cards Transaction

▶ Abstract

This is a component of a bigger project that includes banking services. We developed the entire module as a plug-in able to making payments with Credit-Cards to the customers of our customers and also we had implemented functionalities like payments of usual invoices (mobile phone invoice, power energy invoice, thermal energy invoice and so on).
A very important feature of this plug-in was to have the same functionality as a normal ATM including the option of operator to give cash money to the owner of credit-card.

▶ Technologies

C, C++, Sockets, HTTP(S), TCP/IP, GSM, GPRS, EDGE,
SS (Single Step), XML

▶ Mobile Point of Sales

▶ Abstract

The system implemented in this project was developed on Verifone Omni 3600 and offers features like mobility and accessing mobile technologies: CDMA, GSM, GPRS.
Our customer ordered this system to have access to all banking services that can be available on a mobile system. We are still developing at this project but in this moment we have up and running a parking system that offers possibility to pay with credit cards. Our client insists to have mobility before any other feature.

▶ Technologies

C, C++, XML, Sockets, HTTP(S), TCP/IP, GSM, GPRS, SS (Single Step)

▶ Access control

▶ Abstract

Access control application offers security access in business buildings based on NetSilicon terminals using magnetic cards, proximity cards and smart cards. A single terminal offers support for all these devices. The functionality can be changed with a XML Editor developed by us that offers you the possibility to define the functionality of terminal only by downloading the new version of XML script from the Server.
The database engine from the terminal has capabilities to store information like users ids, card ids, system information, access level and

▶ Technologies

C, HTTP, NetOS, Sockets, Cygwin, ARM Tools

▶ Radio Analyzer

▶ Abstract

Radio analyzer was a small project ordered by our customer to use a hardware prototype. The prototype provides real time information to a serial interface. The software module analyzes, stores and displays the useful information about the state of the signal.

▶ Technologies

C++, WinCE, GAPI

Colony game

▶ Abstract

This project was a real challenge for our team. We accepted it to test the Symbian platform and its features. We wrote new algorithms for audio and video modules. The result of this project was a very powerful API for audio and video on Symbian platform. The next target will be to implement a video conference using 3G technology

▶ Technologies

C++, Symbian 6.0

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