

Linux-based software for Payment Kiosks Development

Client

A leading Russian mobile payments company that specializes in integrated payment systems and vending technologies. As a part of a large Russian banking group, it operates a wide payment network throughout Russia and CIS Countries, allowing instant payments to all major mobile operators, Internet providers, satellite TV and IP-phone systems. The company provides payment gateway, and the software that could be run both on its proprietary hardware solutions and payment terminals of other manufacturers.

Project Summary

Auriga team developed a Linux distribution and the initial software release for the customer's kiosks.

Business Need

Our client needed a low maintenance alternative to the existing Windows-based payment system for its payment kiosks that would allow kiosk merchants to save on license costs. Auriga was chosen to develop a Linux equivalent of the software that could be run on the existing terminals and support the customer's proprietary protocols.

Project statistics

- Team size: 4-6 people at Auriga
- Client relationship duration: 6 months

Project phases

- Concept requirements analysis
- Technical consultations with the client
- Design and implementation

Results

The initial software release successfully developed.

- Linux distributive for payment kiosks was developed
- device drivers developed for peripheral devices:
 - touch screen (General Touch)
 - thermal printers (Citizen CBM 1000 TypeII, Custom VKP-80)
 - GPRS modem (Siemens MC-35i)
 - Bill Validator (CashCode CCNET, ICT 003)
- browser-based payment software implementing JNI
- remote monitoring and administration:
 - paper-end sensors,
 - enhanced security options and alerts for cash collection,
 - payment statistics, etc.
- remote content management

Tools and technologies

- Intel x86
- Linux, NetBeans, ant, GCC, binutils, MySQL, Mozilla.
- Java, C, JNI, HTTP/HTTPS, XML, SQL.