



IC

INFORMATION CENTER

**EXTENDS THE CAPABILITIES OF YOUR RETAILS, INCREASE THE
NUMBER OF CUSTOMERS**

Software functionality

1. IC Client software

- 1.1 Shows advertising by timer when terminal is unavailable
- 1.2 Shows information about product when customer scan a barcode, product information contains:
 - 1.2.1 Name of the Product
 - 1.2.2 Image of the Product
 - 1.2.3 Description of the Product
 - 1.2.4 Price of the Product
 - 1.2.5 Shares and Retail Actions of the Product
 - 1.2.6 Vender Code of the Product
- 1.3 The Terminal Client contains the Settings screen, where the customer can choose a language and currency settings
- 1.4 Design of the Terminal Client could be changed by set the different plugins
- 1.5 Individual License for every client

2. IC Server service software

- 1.1 Receive connections and remember connected Clients
- 1.2 Check connected Client License Data
- 1.3 Receive queries from the remembered Clients
- 1.4 Prepare Data from a received query and send the answer to the Client
- 1.5 Work with MS SQL Server



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Software functionality

3. IC Database

4. IC Utilities

4.1 Helper for Get a current Hardware MAC Address

4.2 Utility for Client License Generation



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Source code content

1. IC Client solutions

1.1 C# .NET4.6.1 solution

- 1.1.1 Client Business logic interfaces and implementations
- 1.1.2 Client Data Layer
- 1.1.3 Client Form Model interfaces and implementations(Plugin Manager, work with plugins)
- 1.1.4 Client Network interfaces and implementations(work with all connection and data transfer actions)
- 1.1.5 Client Plugins(View plugins)
- 1.1.6 Client BarCode Emulator(for debug)
- 1.1.7 Client View components
- 1.1.8 Client Main Form

1.2 C# .NET3.5 Compact Framework solution

- 1.2.1 Client Business logic interfaces and implementations
- 1.2.2 Client Data Layer
- 1.2.3 Client Form Model interfaces and implementations(Plugin Manager, work with plugins)
- 1.2.4 Client Network interfaces and implementations(work with all connection and data transfer actions)
- 1.2.5 Client Plugins(View and Hardware(Keys) plugins)
- 1.2.6 Client View components for .Net3.5CF
- 1.2.7 Client Main Form

Source code content

2. IC Currency Rates Updater Service

- 2.1 Interfaces functionality for work with the database and update Currency Rates from a setted out plugin settings
- 2.2 Implemented functionality for work with the database and update Currency Rates from a setted out plugin settings
- 2.3 Plugins for a different main currency(Euro and Ruble)

3. IC Server Service

- 3.1 Server business logic interfaces and implementations
- 3.2 Server Data Layer
- 3.3 Implementations of the Server work with a network(UDP, TCP) and Clients
- 3.4 Implementations of work with the database(MS SQL Server 2014)

4. IC Database design

- 4.1 Project for design of the database(Entity Framework 6.1.3)

5. IC License Manager

- 5.1 Interfaces and implementations of the License Manager work for .Net4.6.1
- 5.2 Interfaces and implementations of the License Manager work for .Net3.5 Compact framework



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6. IC SDK

6.1 SDK with interfaces and implementations for a whole IC System for .Net4.6.1 and .Net3.5.CF(Data Serialization, IC timer, Logger, Extensions, etc)

6.2 WinForm Util for show current Hardware MAC Address for .Net4.6.1 and .Net3.5.CF

6.3 WinForm Util for Generate Client License Key for .Net4.6.1 and .Net3.5.CF



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Used technologies

1. Entity Framework 6.1.3
2. Log4Net 2.0.8
3. .Net 4.6.1
4. .Net 3.5 Compact Framework
5. .Net EMDK for Zebra MK3100
6. MS SQL Server 2014