Electronic pay systems

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2. Classification of electronic payment systems

Electronic Payment System - is a system of payments between different organizations and Internet users in the purchase or sale of any goods or services via the Internet.



Classification of electronic payment systems:

- debit (working with electronic checks and digital cash);
 - 2) credit (working with the credit cards).



3. Debit electronic payment system. 3.1. Electronic checks. Stages of payment.

Debit payment systems - these are electronic payment systems, which are identical to their counterparts from offline that are ordinary checks and cash.

Electronic checks:

Electronic checks, such as NetCash, NetCheque, NetChex - analogues of paper checks.

There are two differences between electronic checks from paper:

- 1) the signature, which can be either electronic or paper;
- 2) issuance of checks.

Stages of payment:

- 1. Extract e-check, and its digital signature authentication of the sender.
- 2. Sending documents to the recipient. For safety and security agents checking account number can be blocked by the bank's public key.
- 3. Checking the authenticity of the signature.
- 4. Receiving the check payment system for payment.
- 5. Sending a product or service to the payer, withdrawal from his account.



3.2 Debit electronic payment system. Electronic money.

Electronic money - it is a means of payment, which exists only in electronic form.

Electronic money is divided into two types according to the type of media:

- 1. On the basis of cards those systems that work with credit cards. The most famous representatives: Visa, CashMondex, CLIP, Proton, Mondex.
- 2. Based on the network these are systems that work with digital cash. Most known systems: WebMoney, Yandex.Money, EasyPay.

Stages of payment by electronic money:

- 1. Create your own e-wallet
- 2. Install a web browser or application
- 3. Open Menu Account Management
- 4. Make the necessary operation



4. Market of electronic pay systems in Russia

4.1. Macroeconomic indicators

The Russian economy recession motivated the Government to revise major economic indicators for 2015.

GDP /BBΠ/	+1,2%	-2,5%	-2,7-5%
Inflation	+5,5%	+11,9%	+15%
Average ruble exchange rate	37,7 RUR/1 USD	60-62 RUR/1 USD	45-65 RUR/1 USD
Retail trade turnover	+1,9%	-8,2%	-10,9%
Population's real income	+2,1%	-6,3%	- 8,5%
Real wages	+0,4%	-9,6%	2

^{*} Ministry of Economic Development of the Russian Federation, Bank of Russia

^{**} Morgan Stanley, S&P, Gaidar Institute for Economic Policy, leading Russian economists



4.2 Acquiring.





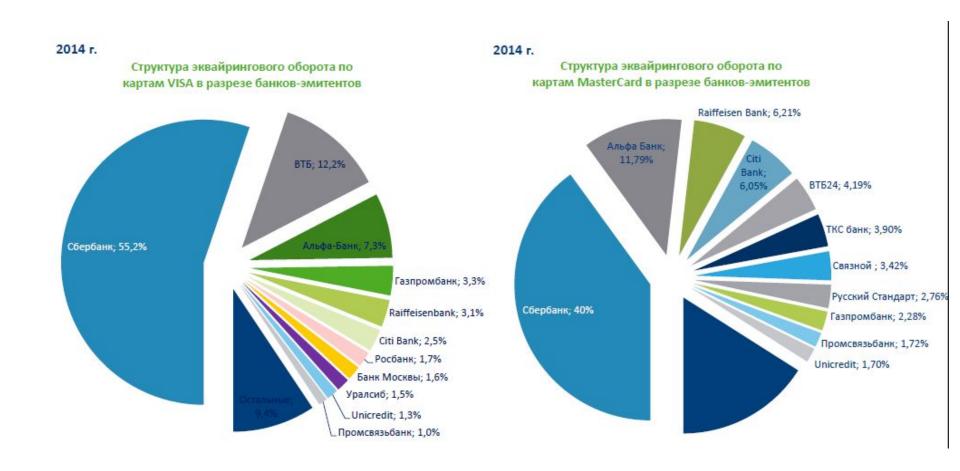
In spite of the dynamic growth of cashless payments cash remains the main payment instrument.

Share of acquiring transactions is growing and represents 22% of all transactions.

Number of credit organizations offering card issuance and acquiring services is decreasing.

Acquiring- range of services on reception of bank cards for payment at the point of sale

Acquiring by banks - issuers Russia



4.2.1 Acquiring Market

Экономические факторы

- Динамика ВВП
- Финансовые условия по эквайрингу

Рынок эквайринга

Инфраструктурные факторы

- Развитие сети банкоматов и РОS-терминалов
- Распространение смартфонов и планшетов
- Развитие мобильного эквайринга
- Развитие электронных порталов по оплате госуслуг и ЖКХ

Социальные факторы

- Рост проникновения банковских карт
- Повышение финансовой грамотности населения
- Изменение степени доверия к банкам
- Изменение законодательства

4.3. Payment infrastructure.

Платёжная инфраструктура России в цифрах











Развитость рынка платежей в России в сравнении с другими странами



Европа

Россия

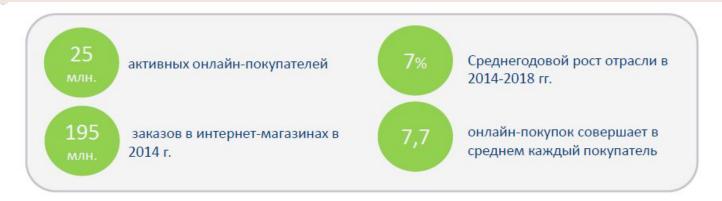




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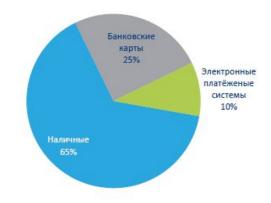


4.4. E-commerce market









4.5. Transactions

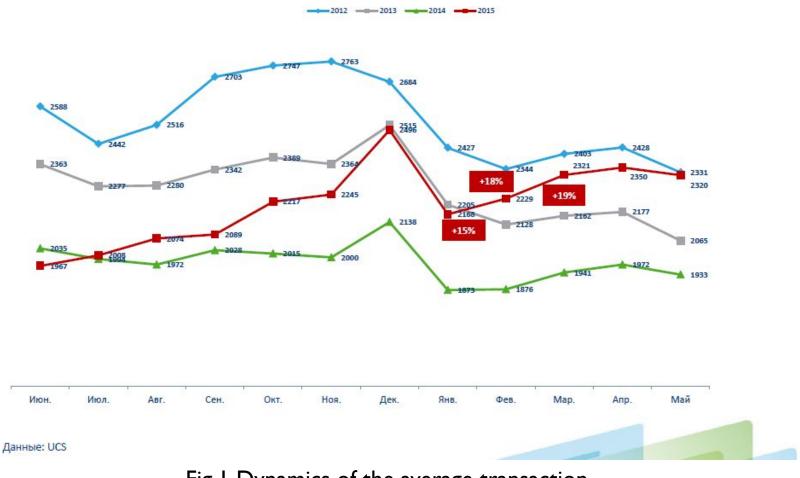


Fig. I Dynamics of the average transaction

Weekly turnover and number of transactions in Russia

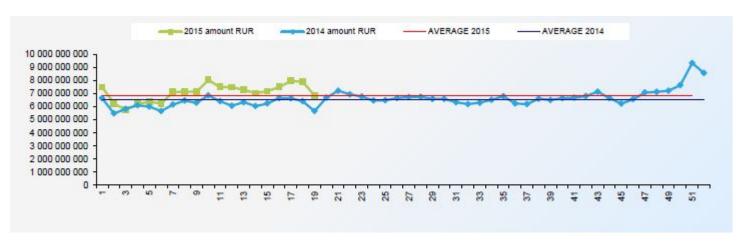


Fig 2.The dynamics of the turnover for the week



Fig 3. The number of transactions per week

PART II

(The second part will be representative by Dimitry)

