



# SERVICE CATALOGUE

**BORICA AD**

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## 1 REGULATED AND PAYMENT SERVICES

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### 1.1 BISERA6

**BISERA6** is a payment system for servicing client transfers in BGN to be settled at a designated time, providing settlement finality.

#### Description

Participants in BISERA6 system may be the BNB and banks operating on the territory of the country which have signed an agreement for participation in the system. A new participant who has received BAE code from the BNB is included in the system only upon available approved internal rules of operation with BISERA6, and successfully passed tests for verification of the technical, technological and information readiness of the bank applying for inclusion in the system. The rules of operation of the system have been developed in accordance with the Law on Payment Services and Payment Systems. The settlement agent of BISERA6 is the BNB. BISERA6 executes payment orders for interbank clients' transfers in BGN for amounts less than BGN 100 000.

**BISERA 6** accepts for execution transfer orders through credit transfer, direct debit, credit transfer on budget payment order, and money remittance. SWIFT FIN message standard is used for the transfer of the information of the payment order, coordinated with the one used by the RINGS settlement system.

**SEBRA** (Electronic Budget Payments System) is a system for monitoring and management of payments initiated by the budget entities participating in it, within previously set limits, to the Single Account System of the Ministry of Finance, serviced by the BNB.

#### Description

SEBRA participants are the Bulgarian National Bank, the Ministry of Finance, servicing organizations, primary budget entities and authorized secondary budget entities.

Payment limits, depending on the type of funds, are set by the Ministry of Finance (for the primary system) through the BNB (the BNB promptly notifies SEBRA of any change in the limit), or automatically formed on the basis of the receipts to the respective budget entities' bank accounts. The limits set by the Ministry of Finance are allocated by the first level spending units/authorized second level spending units to the primary budget entities included in the respective system. Each budget entity included in SEBRA can make a payment through the servicing organization by filling in a document "Budget payment order", or the first level budget spending entity, directly from the Single Account of the Ministry of Finance at the BNB.

The execution of transfers initiated through SEBRA, their monitoring and accountability are governed by the BNB and MoF Guidelines for servicing accounts of budget entities and budget payments.

#### Services

- "Execution of interbank transfer"
  - acceptance and processing, with value date in RINGS, of client transfer orders for amounts smaller than those provided for in Art. 106, i. 3 of the Law on Payment Services and Payment Systems;
  - according to a predetermined schedule, generation and submission to RINGS of a request for settlement of the results of the recalculations on a multilateral basis of the mutual obligations of the participants in the system;
  - generating and sending to each participant in the system information on the results from the settlement of the transfers executed through it.
- "Summarized results of a bank"
  - generating and sending summarized information on a bank for each settlement cycle;
  - generating and sending summarized information on a bank for the day.

- “Transfer of interbank information”
- receiving messages for transfer of information between two banks;
- preparation for receiving delivered information.
- “Transfer of information to SEBRA”
- receiving messages for transfer of information from BAE, servicing budget entities included in SEBRA to SEBRA;
- processing of the received information;
- obtaining information on the results of the processing.
- “Transfer order initiated through SEBRA”
- acceptance of transfer orders initiated through SEBRA;
- processing of the received transfer orders, according to the requirements of the BNB 03-13009 Guidelines and MoF;
- sending information on the results of the processing to the BNB, SEBRA and the banks recipients of the transfers.
- “Certification of a bank for participation in BISERA6”
- conducting a certification test for participation in BISERA6;
- issuing a certificate of participation in BISERA6.
- “Inclusion of a new BAE in BISERA6”
- check of the readiness of the new BAE to send/receive information to/from BISERA 6.
- “Statistical data at the client's request”
- extraction and preparation of statistical information on the transactions, executed through BISERA6 for past periods, at the request of a participant in BISERA6.
- “Statistical data for an accounting period”
- a set of standardized statistical “reports”.

#### Type of agreement

The candidate for inclusion in the system submits to BORICA AD a written application, accompanied by a letter from the BNB of the existence of a concluded agreement between the BNB and the candidate for participation in RINGS and their assigned personal bank code, pursuant to Guidelines for Provision, change and closing of BAE codes and maintenance of a register of BAE codes pursuant to the BNB Ordinance 13, and the internal rules of the candidate for participation in BISERA6.

A Standard contract is signed; it applies to all participants in the payment system, with annexes: System Rules and Tariff.

#### Pricing

The services are paid on the basis of the applicable BORICA AD Tariff.

## **1.2 BISERA7-EUR**

BISERA7-EUR is a payment system for servicing client transfers in EUR, based on the rules, practices and standards of the Single Euro Payments Area (SEPA), and providing finality of the settlement in the settlement system TARGET2-BNB.

### Description

BISERA7-EUR is a payment system with finality of the settlement for servicing client transfer orders in EUR and a SEPA compatible clearing house, according to the classification of the European Payments Council.

BISERA7-EUR processes domestic and cross-border transfer orders in EUR from/to banks and bank branches, operating on the territory of the European Economic Area (EEA), to the amount of up to EUR 50 000 for transfer orders between participants in the system, and without limits of the amount of transfer orders, executed through interconnections with other SEPA compatible clearing houses.

The settlement of the payments in BISERA7-EUR is executed in TARGET2 (Trans-European Automated Real-time Gross Settlement Express Transfer) system on the value date.

The participants can access BISERA7-EUR system through a direct telecommunications connection to BORICA AD or through SWIFTNet. To ensure the accessibility of the participants to BISERA7-EUR, BORICA AD provides a connection of BISERA 7-EUR with other SEPA compatible clearing houses by concluding bilateral agreements. Such agreements have been signed with the German Deutsche Bundesbank, the Dutch-German clearing house Equens and the Polish KIR.

The Rules of Operation of BISERA7-EUR have been developed and maintained in full compliance with the regulatory requirements of the Republic of Bulgaria, the European Payments Council (EPC) and the European Automated Clearing Houses Association (EACHA) for interoperability of SEPA-compatible clearing houses.

Participants in BISERA7-EUR can be: the Bulgarian National Bank; National central banks (NCBs) of the EEA; a Bank with a licence issued by the BNB for conducting banking activities; a Bank branch from a third country with a licence, issued by the BNB under the provisions of Art. 17 of the Law on Credit Institutions; a Bank branch of a Member State, operating on the territory of the Republic of Bulgaria under the provisions of Art. 20 and 21 of the Law on Credit Institutions; Banks or branches of foreign banks established on the territory of the EEA.

Other services are the services related to generating and sending information in the form of various types of reports.

### Type of agreement

Agreement for BISERA7-EUR, consistent with the Rules of Operation of BISERA7-EUR, which have been developed and maintained in full compliance with the regulatory requirements of the Republic of Bulgaria, the European Payments Council (EPC) and the European Automated Clearing Houses Association (EACHA) for interoperability of SEPA-compatible clearing house. The standard agreement applies to all participants in the payment system; the annexes to it are: System Rules and Tariff.

### Pricing

The services are paid on the basis of the applicable BORICA AD Tariff.

## **1.3 Online card switching**

BORICA AD, as an operator of a payment system for payment transactions, associated with cards, provides switch of interbank payments with payment cards in the country. For this purpose, online interface connections of the type host-to-host are built and maintained with banks and payment institutions with separate authorization centers.

Switch processing includes:

- Registration and redirection of the transaction;
- Generation and sending the output data for the result of the transaction.

Host to host connections

- The connection between the BORICA authorization system and other systems shall be established after negotiation of the type and parameters of the connection that will be carried out.

#### Type of agreement

A Standard contract for all participants in the BORICA payment system, with annexes: System Rules and Tariff.

#### Pricing

The services are paid on the basis of the applicable BORICA AD Tariff.

### **1.4 BORICA payment system**

BORICA is a payment system with settlement finality, which processes payment transactions associated with cards, and makes a net settlement at a particular time in RINGS.

#### Description:

The Rules of Operation of the system have been developed in accordance with the requirements of the Law on Payment Services and Payment Systems. The settlement agent of BORICA is the Bulgarian National Bank. Settlement of interbank payments with payment cards on the territory of the country is made through the BORICA payment system.

#### Services

Settlement via RINGS of interbank financial transaction – transaction processing includes:

- Processing of the received information for executed interbank transactions;
- Charging interbank fees for the executed operations;
- Recalculating on a multilateral basis the mutual obligations of bank;
- Preparation of the request for settlement based on the recalculated net positions of the participants;
- Sending the request for settlement to RINGS;
- Receiving the result from RINGS;
- Providing the result from RINGS to the banks.

### **1.5 Conversion and redirection of international transactions**

The conversion and redirection of international transactions service is related to the authorization protocols conversion (ISO8583) and redirection of authorization requests or transactions to/from international card schemes – ICS (VISA, MC) from/to the relevant financial institution, acquiring or issuing payment cards.

The service is applicable to institutions with their own systems, connected to the relevant ICS via H2H interface connection with BORICA.

### **1.6 SWIFT Service Bureau**

SWIFT (Society for Worldwide Interbank Financial Telecommunication) is a cooperative society owned by its members that provides the financial world with a fast, safe and confidential way to conduct business operations. BORICA AD is registered under the Shared Infrastructure Program of SWIFT as a Service Bureau and is certified according to the requirements for **Standard Operational Practice** level. The main services it provides to its clients are indirect connection to SWIFTNet (**Shared Connection**) and full outsourcing of SWIFT infrastructure (**Shared Infrastructure**).

#### Description



- The Shared Connection service is designed for clients, having their own platform for processing SWIFT messages (e.g. Alliance Access/Entry). By the use of Service Bureau they can use third-party SWIFTNet services such as Information and Control Module (ICM) of TARGET2 and the EBA STEP2 Browse Service of EBA Clearing. The Service Bureau, in its capacity of an administrating institution (Shared Security Officers), could also manage the SWIFTNet PKI client security.
- By the use of the Shared Infrastructure service, clients are provided with a platform for complete processing (creation, verification, authorization, sending, receiving) of all kinds of SWIFT messages. Since for this service all software and hardware components are installed and administered by the Service Bureau, clients don't have to build, maintain and administer their own SWIFT infrastructure.
- SWIFT Service Bureau guarantees safety, reliability and quality to its clients.
- Safety is ensured by the architecture of the Service Bureau and the used technological solutions. Maximum reliability is achieved through reservation of all elements of the infrastructure. The Service Bureau services are available 24/7 and their quality is guaranteed by the Service Level Agreement (SLA), negotiated between the Service Bureau and the client.

#### Type of agreement

For the use of SWIFT Service Bureau agreements are concluded as follows:

- Access to SWIFT Net (Shared Connection): Agreement with annexes to it;
- Use of SWIFT Net services through Alliance Access (Shared Infrastructure) – Agreement with annexes to it;
- Agreement for the use of SWIFTNet services through the SWIFT infrastructure of the Service Bureau;
- Contracts have SLA annex – “Service Level Agreement”.

#### Pricing

Services are paid based on the applicable BORICA AD Tariff.

## **1.7 Services in connection with The Payment Service Directive PSD2**

### **1.7.1. Access to Account Gateway (XS2A Gateway)**

A Service directed to banks' obligations as Account Servicing Payment Service Providers (ASPSP) in compliance with Directive (EU) 2015/2366 (PSD2).

#### Description

The Service is based on the National technical standard BISTRA (Bank Interfaces for Standardized Payments) and is compliant to the Law on Payment Services and Payment Systems (LPSPS) and Directive (EU) 2015/2366 (PSD2). The Service scope includes:

- Publishing of application programming interfaces (API) according to BISTRA
- Main functionalities – “Account Information Service”, “Payment Initiation Service” and “Confirmation on the Availability of Funds Service”
- PSP validation (certificate validity, PSP register)
- Administrative portal for monitoring and reports
- Developer portal, including documentation and test environment (sandbox)

For APIs' publishing are used IBM products – IBM API Connect and IBM Data Power – leading world class provider of similar technologies.

Developer portal is branded with the logo, colors and fonts of the Bank.

### **1.7.2.Consent management**

The Service gives the possibility for storing and managing consents of the Payment Service Users (PSU) which they provide to the Account Servicing Payment Service Provider (ASPSP) according to Directive (EU) 2015/2366 (PSD2).

#### Description

The Service scope includes:

- Register storing the consents;
- Interfaces (API) for managing consents (including creation, reading, updating and deleting operations);
- Portal to access and manage the consents by authorized users;
- Client portal where Payment Service Users (PSU) can revise and manage their consents. The portal may be branded with the logo, colors and fonts of the Bank.

The Service allows obtaining status and details for the consents, which gives a possibility the register to be synchronized with other registers, used by the Bank.

### **1.7.3.Developers help-desk**

The Service provides possibility to the developers of the Third Party Providers (TPP) to receive assistance in case of difficulties with the integration between their applications and the published by the service “Access to Account Gateway (XS2A Gateway)” interfaces (API).

#### Description

Developers of the Third Party Providers (TPP) may receive assistance in any moment by competent and experienced employees for:

- Questions about documentation of the published APIs
- Problems upon searching published APIs
- Other integration related questions

Developers register their problem via electronic form available on the Developers’ portal. Communication is in English or Bulgarian language.

### **1.7.4.Publishing of additional interfaces (API)**

The Service provides possibility for additional interfaces publishing (API) in addition to the already published in compliance with BISTRA. These interfaces (APIs) are published on the platform on which the service “Access to Account Gateway (XS2A Gateway)” is built, using the advantages of the platform – security, reliability, efficiency and scalability.

#### Description

A Bank using the service “Access to Account Gateway (XS2A Gateway)” can publish additional interfaces (API) out of the scope of Directive (EU) 2015/2366 (PSD2). All additional interfaces that the Bank is willing to publish, shall be published by the Provider.

### 1.7.5. Multibanking HUB

Service aimed at banks, willing to take advantage of the business opportunities, provided by Directive (EU) 2015/2366 (PSD2). As Third Party Providers (TPP), the participants in the Hub can service clients of other Account Servicing Payment Service Providers (ASPSP).

#### Description

The service is based on the National technical standard BISTRA (Bank Interfaces for Standardized Payments) and is compliant to the Law on Payment Services and Payment Systems (LPSPS) and Directive (EU) 2015/2366 (PSD2).

The service scope includes:

- Account information
- Payment initiation

The Hub enables its customers, through a single integration, to build a connection with plenty of Account Servicing Payment Service Providers (ASPSP). The hub aims at implementing all the specifics in the interfaces of the Account Servicing Payment Service Providers (ASPSP), as well as to provide the subsequent support of its integration with them, thus facilitating its customers to a great extent.

The Hub is integrated with all Account Servicing Payment Service Providers (ASPSP) on the territory of Bulgaria that have published specialized interface to access their customers' accounts as required by the PSD2. Upon customer's request, the hub may be integrated with other banks outside the territory of Bulgaria.

The communication between the Hub and its customers can be both synchronous and asynchronous and is carried out through the already established internal network between the parties.

## 2 CARD SERVICES

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The card services provided by BORICA AD are divided into online and Back office services.

**Online services:** Acceptance; Secure payments (3D Secure) in the Acceptance section; Authorization; Secure payments (3D Secure) in the Authentication section; Anti-Fraud monitoring (EMS); Blocking cards; Cash-M; Mobi-B; PIN via SMS; Loyalty programs; Authentication module Sucard ATX (SaaS).

**Back office services:** ATM and POS servicing; Card management; Card personalization; PIN printing; Management system for disputed transactions; Card Back-office.

### Type of agreement:

For all card services "Standard agreement for acceptance for all participants in BORICA payment system" is concluded, with annexes System Rules and Tariff, unless the description of the service specifies otherwise.

### Pricing

Card services are paid on the basis of the applicable BORICA AD Tariff, unless the description of the service specifies otherwise.

## 2.1 ATM

### 2.1.1 ATM management

#### Services

- ATM management and support in Tandem – for ATMs registered in the Tandem system, BORICA makes available a financial application, by which interoperability with the authorisation system is provided. The ATM application is developed and supported by BORICA. Operations that can be performed include financial and nonfinancial operations, payment of bills to merchants, sending and receiving of funds ordered for payment, etc. BORICA provides connectivity both to all national issuers of electronic payment instruments, and to international card schemes (VISA, MasterCard and Amex), thus also ensuring cross-border transaction traffic.

Two types of communication connectivity of ATMs are possible:

- via the bank's VPN;
- directly via the VPN of BORICA.
- Management and support of ATMs in Way4 – BORICA provides to the devices registered in Way4 the full package of communication and functional characteristics provided by Tandem. With a view to improving the methods of ATM management and support, the financial application, used locally on the ATMs for their management in Tandem, is removed and they are managed centrally by the

authorisation system. Charging of registered ATMs in Way4 is determined depending on the selected service package and the functionalities provided through ProView/VynamicView:

ProView/VynamicView main package – provides an opportunity by a web version of the system for:

- monitoring the overall condition of the ATM, and of individual modules and components;
- OS - SW patch update;
- detailed status of cash availability by denomination and cassette;
- performance of remote commands to the ATMs – performance can follow a schedule preset by the users;
- possibility for in-depth and detailed definition of different levels of access and monitoring, both by the bank's staff, and by external organisations servicing the ATM network;
- automation of processes based on a sequence of events;
- standard reports of the performance and cash status of the ATM network;
- providing access rights to external ATM maintenance organisations.

ProView/VynamicView full extended package – includes everything provided in the basic package plus:

- receiving personalised reports according to a preset schedule.
  - ATM statuses – including technical condition;
  - financial position by cassette and denomination (referring to Cash out ATMs);
  - reports of incidents that occurred on the individual ATM level;
  - performance statistics of the ATM network;
- access to electronic transaction logbooks stored on a server at BORICA, providing detailed information of the status and stages of development of an ATM operation – information used by FIs for protection in case of disputed customer transactions. The information is stored on servers at BORICA, rather than locally on the ATMs, which allows for access for a longer period of time.
- access to photo recordings made by ATM cameras (where such are installed and operating);
- distribution of files to the ATM network – promotional video clips, etc.;
- receipt by e-mail of incident notifications;
- inventory information of the hardware components and software applications.

### 2.1.2 ATM Settings

In exceptional cases, where an ATM is registered for operation in the Tandem system, preparations for installation of the device are done at specialised BORICA premises, and include VPN configuration, software uploading, parameter configuration, cryptographic keys on a keyboard and HSM (Hardware Security Module), preparation of an encryption security module, and checking the proper operation of the device with BORICA's authorisation system - Tandem.

For all ATMs managed in Way4, for optimization of time, finances and operations, BORICA has provided an ATM preparation process in specialised rooms at the servicing organisations providing ATMs to end customers.

Upon request by the servicing bank, by means of a remote uploading system BORICA provides the distribution in the ATM networks of promotional video clips and other types of messages.

#### Services

ATMs managed by the Tandem authorisation system:

- initial communication configuration of the VPN connection of the ATM to BORICA;
- remote uploading of a promotional video clip via the system for file distribution on ATMs.
- generation and uploading of keys for the HSM and the EPP (Encrypting Pin Pad) – encrypting keyboards for ATMs.

ATM managed by the Way4 authorisation system:

- configuration of data and parameters for ATMs in the authorisation and in the back office systems;
- registration of ATMs in the monitoring and management system (ATM Monitoring and Management ProView/VynamicView);
- configuration of user access levels and monitoring and management rights in ProView/VynamicView for the staff of the financial institution, and of external servicing organisations – upon the financial institution’s request to be provided that service;
- processing and digital transfer of data for ATM installation to the service organisation responsible for the physical installation – by rights of access, specially provided to the respective organisation, to a system where incoming requests for ATM installation are registered;<sup>1</sup>
- generation by the HSM and initial uploading of cryptographic keys for EPP
  - manual uploading by BORICA information security officers
  - remote uploading via the Remote Key Loading system

### **2.1.3 Provision of statistics, data and information**

BORICA provides various types of statistics and transaction logbooks of ATMs operating within the Tandem authorisation system. Where assistance is needed, the Company provides expert assistance for analysis of the financial status of ATMs.

Services in the Tandem authorisation system:

- provision of statistics of the condition of a terminal;
- subscription for summary monthly statistics;
- provision of an ATM logbook;
- analysis in case of lack of financial reconciliation of an ATM.

Services in the Way4 authorisation system:

For ATMs registered in the Way4 system, financial institutions can receive reference information via the ATM monitoring and management system - ProView/VynamicView. The variety of statistics and data is shown in item 2.1.1 above.

In addition to the above listed ones, the system allows for generation of individual reports, which are subject to additional definition and assessment with the customers.

### **2.1.4 Additional ATM services**

BORICA conducts specialised training in working with ATMs for cashiers. Participants in the training can be employees of the banks, and of the companies servicing their ATMs. Training includes theoretical and practical sessions for all models supported by the Company. They cover a syllabus of subjects and questions relevant to ATMs connected to one of the two authorisation systems supported – Tandem or Way4. After the training the employees have the required knowledge and skills for the proper servicing of ATMs.

To ease the process of migration of ATMs to the Way4 authorisation system, and for better knowledge of the specifics of servicing terminals in the new authorisation environment, BORICA organises training courses for employees who have been already trained for work with ATMs. For its customers’ added convenience, BORICA training lecturers can conduct courses at locations designated by the customers. The training locations should meet the relevant requirements for conducting such training. Again, to make things easier for customers and their employees facing difficulties to attend BORICA’s weekday training courses, the Company organises such on Saturdays – according to a schedule agreed in advance with the customer. In addition to training courses with physical attendance, BORICA prepares and provides video instructions for work with ATMs in Way4.

BORICA provides to banks, whose ATMs are connected to Tandem, an online system (SAM) for monitoring the cash availability and technical condition of the ATMs. The system provides optionally an

additional functionality for transmission of financial data to the bank and their processing by the cash management systems.

BORICA provides assistance to customers by conducting certification tests of various software applications and programmes – operational and application ATM software – for their interoperability with the authorisation systems.

### Services

- Training of operators to service ATMs;
  - training of operators to service ATMs – participation in a 4-day course in groups of 6 to 12 trainees;
  - one-day training for servicing ATMs – applicable to up to 10 trainees from one financial institution;
  - one-day remote training course in Way4 for cashiers, at a location chosen by the customer - applicable to up to 10 trainees from one financial institution;
  - one-day Saturday training course in Way4 for cashiers who have attended a previous BORICA training course;
- Information of the technical condition and cash availability of ATMs;
- Assistance for certification of BNA terminals.

### **2.1.5 Transactions at ATMs with domestically issued cards**

BORICA's authorisation and Switch systems guarantee acceptance of all payment cards issued in Bulgaria at all ATM terminals included in the system. Transactions can be:

- Financial:  
From participants' point of view, they fall into:
  - 'On-Us' pure – transactions executed with an electronic payment instrument at an ATM – both managed by the same financial institution
    - cash withdrawal
    - cash deposit – the service is presently applicable only to 'On-Us' transactions pure.
  - 'On-Us' for BORICA – a transaction executed with an electronic payment instrument at an ATM – issued and supported by **different** financial institutions, but **both are serviced** by the BORICA systems.
    - cash withdrawal
  - 'Off-Us' financial transactions – with a payment instrument issued by an external for BORICA financial institution, at an ATM included in the BORICA system. Transactions of this type are processed and transmitted between the participants via the Transaction Switch system.
    - cash withdrawal
    - reversal – technical
- Nonfinancial:  
These services are applicable to all participants supporting the relevant services for the payment instruments issued by them.
  - statement of card balance;
  - statement of the latest five transactions;
  - PIN change.
- Other transactions:
  - registration of a card in an e-portfolio (Mobi-B);
  - Cash-M / cash withdrawal order.

### 2.1.6 Transactions at ATMs with cards issued abroad

For transactions with electronic payment instruments issued outside Bulgaria, the BORICA systems provide routing of authorisation enquiries from ATMs to the international card schemes MasterCard, VISA, AMEX, Diners Club, Discover.

Supported types of transactions:

- Financial transactions:
  - cash withdrawal at ATM terminals;
  - cash withdrawal at ATMs with dynamic currency conversion (DCC)\*;
  - reversals of the above transactions.
- Nonfinancial transactions:
  - statement of the funds available at the ATM;
  - change of payment card PIN
- Other transactions:
  - rejected (unsuccessful) authorisations at ATMs;

\* Cash withdrawal at ATMs with dynamic currency conversion (DCC) – a service in which the cardholder has an option to choose if the executed transaction should be converted into the original currency of the card used. In a transaction of this type, the amount in the original currency, with which the customer's account will be debited, is seen on the ATM screen. The exchange rate of the transaction is set by the financial institution operating the ATM. Through its systems BORICA provides an opportunity to include up to 10 currency options for the service.

## 2.2 POS

### 2.2.1 POS maintenance in BORICA system

#### Services

- Close inactive POS;
- Change a specific parameter of POS device.

### 2.2.2 Initial POS set-up

BORICA AD prepares POS terminals for installation. The preparation involves uploading the necessary software and parameters in the POS terminal, its registration in the authorization system and performing operations to verify the correct operation of the terminal in BORICA system.

The service "Startup of POS with basic parameters" is provided, which includes loading application, initial parameters of the merchant, TID, keys and registration in TMS and the authorization system, on the grounds of a standard (basic) request submitted by the bank.

BORICA AD also performs initialization of POS terminals after repair or replacement of POS terminals.

Upon activation of POS, the terminal is loaded with the specific parameters of the merchant and the location, which is serviced by the POS terminal. They replace the parameters of the initial merchant in the systems.

Upon deactivation, the parameters of the POS terminal return to the basic state with formal data. The terminal keeps TID, and upon request for activation it can be installed with another merchant, without being physically returned to BORICA AD.



System for registration of requests for terminals (TermReq)

Requests for installation of ATM and POS terminals, POS startup with basic parameters, POS activation and deactivation, as well as changes to individual parameters of POS terminals are submitted by banks and payment institutions through the system TermReq, operated by BORICA AD.

### Benefits

The services related to the initialization of POS terminals, as well as the possibility for startup with basic parameters, and subsequent activation and deactivation of POS, as well as change to its parameters, allow banks and payment institutions an easy and flexible management of the network of POS terminals and merchants they service, without requiring the terminals to be taken to BORICA AD for service upon any change.

## **2.2.3 Additional POS services**

### Services

- Initial POS certification
- Testing a new version of the POS software
- Testing a new POS model
- Technical services at POS

## **2.2.4 Domestic card transactions on POS**

BORICA card system provides acquiring of all payment cards, issued on the territory of the country, at all POS terminals, included in the system. BORICA card system provides routing of authorizations with foreign cards to international card schemes MasterCard, VISA, AMEX, Diners Club, Discover.

### Services

The service “Interbank financial transactions and On-US transactions at POS with cards outside the BORICA system” includes the following transaction types:

- Transactions performed at POS, serviced by one PSP\* by cards, issued by another PSP;
- Transactions performed at POS of one PSP, connected to the BORICA system by cards, issued by the same PSP that are not registered in the BORICA system;

The service “On-Us transactions Acquiring at POS (card and terminal of the same bank in the BORICA system)” includes only the transactions, where at a POS of the same PSP, connected to the BORICA system, is accepted a card issued by a the same PSP and registered in the BORICA system.

Financial transactions at POS include:

- Payment of goods and services and cash withdrawal via POS terminals;
- Payment of goods and services via virtual POS terminals;
- Reversals of the above-mentioned transactions.

Non-financial transactions at POS include:

- Check available balance at POS;
- Check last 5 transactions at POS;

Other transactions include:

- Rejected (unsuccessful) authorizations at POS;

- Re-authorizations.

## 2.2.5 Foreign card transactions on POS

Financial transactions at POS include:

- Payment of goods and services and cash withdrawal via POS terminals;
- Payment of goods and services via virtual POS terminals;
- Offline transactions;
- Reversals of the above-mentioned transactions.

Other transactions include:

- Rejected (unsuccessful) authorizations at POS;
- Re-authorizations.

## 2.3 Card management

### 2.3.1 Authorization of card payments

BORICA AD provides banks and payment institutions, issuing cards through the BORICA system, with authorization of requests for transactions, made with their cards on physical and virtual ATMs and POS in the country and abroad.

#### Description

The authorization of each transaction request, made with a payment card on physical and virtual terminals in the country and abroad, is performed by verification of a number of parameters:

- Validity of the card (card number, expiration date);
- Account balance or card credit limit;
- Card limits (daily, weekly, etc.);
- Security codes CVC/CVV, EMV parameters;
- PIN (if required);
- Card status (active, blocked);
- Other parameters (permitted operations, cryptograms, etc.).

The service “Interbank financial transactions and On-US transactions from terminals outside the BORICA system” includes the following transaction types:

Transactions executed with cards, issued by one Payment Service Provider (PSP), to terminal devices of another PSPs;

Transactions executed with cards issued by one PSP and registered in the BORICA system at terminal devices of the same PSP that are not connected to the BORICA system;

The service “On-Us transactions Issuing (card and terminal of the same bank in the BORICA system)” includes only card transactions, issued by a single PSP and registered in the BORICA system on a terminal device of the same PSP connected to the BORICA system.

Financial transactions include:

- Cash withdrawal and/or cash deposit via ATM terminal;
- Payment of goods and services and cash withdrawal via POS terminals;
- Payment of goods and services via virtual POS terminals;
- Transfer between payment accounts via ATM terminals;

- Payment of services via ATM terminals;
- Reversals of the above-mentioned transactions.

Non-financial transactions include:

- Check available balance;
- Check last 5 transactions;
- Change payment card PIN code with or without card activation.

Other transactions include:

- Rejected (unsuccessful) authorizations;
- Re-authorizations.

Cash-M transactions include:

- Transactions ordered by an ATM to the Cash-M system;
- Cash withdrawal without card via the Cash-M system.

The service “Card activation after PIN change” – provides additional level of security for cardholders, enabling them to activate a new or reissued card by themselves by changing PIN code at an ATM.

BORICA AD provides the possibility for the so-called authorization at the issuer, where the check of the account balance is carried out at the bank through an established online connection. Thus, the cardholder may use the entire balance on their card account at any time.

Another possibility for maintenance of a current card account balance is by establishing an online connection, whereby the bank promptly updates any change in the account balance in the BORICA system, and can make checks for completed transactions, in order to maintain up-to-date balance in its own system, as well.

### Benefits

The authorization of each payment ensures a high level of security of the transaction, which protects the cardholder from fraud. Using the interface for authorization by the issuer, the cardholder can, at any time, use the entire balance on their card account.

### **2.3.2 Card management**

BORICA AD enables banks and payment institutions, issuing cards through the BORICA system, to manage the status, account balance, limits, Internet transactions and other parameters of the cards serviced by them.

#### Description

Support of management (change) of the following parameters of the payment cards, registered in BORICA system, which are used in the payment authorization process:

- Card status (active, blocked, deactivated);
- Account balance or card credit limit;
- Card limits (daily, weekly, etc.);
- Transactions management on the Internet;
- Other parameters (permitted operations, etc.).

The service "card management in the BORICA system, providing opportunity for transactions management on the Internet" is related to raising a special flag for cards in the STEPS system, which prohibits Internet transactions or taking down, allowing cards for the same transactions. The flag can be managed either manually by the bank employees operating with the system, or automatically by submitting a file to BORICA for a large number of cards. Banks submit to BORICA a written request for the BIN numbers to

be registered for the service, where the registration and the pricing shall be made for all active cards in the requested BINs.

The standard way to change the card parameters, which BORICA AD provides for banks and payment institutions, is through a file transfer along specified interfaces. For this purpose, a system for file sharing is maintained, including the option for automatic transfer. Client applications are provided, which allow secure transfer of files.

Besides file transfer, BORICA AD provides online tools for a change to the card status (blocking and unblocking) and change to the balance through remote access to the authorization system and online interface.

### Benefits

The management of the cards registered in BORICA system allows you to change the status and to set parameters (limits, availability, etc.) at card level, which will subsequently be used for authorization of executed payments.

## **2.3.3 Additional Card services**

### Services

- Establishing a connection for on-line authorization with the card issuer;
- Automatic file transfer for back office;
- Generation and loading a key in HSM;
- Keys export for Visa and MasterCard;
- DIGIPASS GO1 device;
- Training for operation with systems servicing card services;
- Developing software for card services.

## **2.4 Production of cards and PIN**

### **2.4.1 Data preparation**

The “Data preparation” service covers the data processing on previously set parameters, required for the creation (production) of the card.

### **2.4.2. Personalization of magstripe and embossing**

BORICA AD offers a full set of services for personalization of payment cards, including the preparation of data for personalization of magnetic stripe and chip, computing of classified data and physical personalization of payment cards.

### Description

BORICA AD is a processor certified by VISA and MasterCard for personalization of all their card products. We provide personalization of both magnetic and chip cards, compliant with EMV standard. The chip cards may have two interfaces (contact and contactless), providing contactless payments in accordance with the PayPass specifications of MasterCard and PayWave of VISA.

### **2.4.3. EMV personalization**

BORICA AD provides EMV cards personalization under several technologies: PRISMA, IDEMIA, Austria card, Thales (Gemalto), Plastic Card, EASTCOMPEACE.

#### 2.4.4. Card enveloping

In addition to card personalization services, the personalization bureau also offers:

- additional services for personal design, at the choice of the cardholder. The service includes choosing a card layout, printing the selected layout and card personalization;
- enveloping personalized cards with inserts designed by the bank;
- scheme for sorting the personalized bank cards.

The service “Colour printing of cards with individual design“ provides possibility for card personalization of a client with individual design, which allows product differentiation for the end clients.

The “Card envelope” service is provided to clients in compliance with the requirements of PCI Card Production – Physical Security Version 1 for personalized cards and under the following other requirements:

- The client can choose only one type of branded envelope and sheet.
- The client can define many types of “accompanying letters”.
- The content of the accompanying letter shall be defined under the principle “template - accompanying letter”.
- Branded envelopes and sheets necessary for the cards enveloping shall be provided by BORICA AD.
- The client sends the selected by them “accompanying letters” – new and updated at e-mail address: perso@borica.bg.

*\*Note: The development of functionality for a new JAVA applet refers to applets that are not currently being developed and implemented in the personalization system.*

In order to address and send individual letters and personalized cards by post to each recipient in an easy, fast and secure way, BORICA AD provides automated envelop handling of personalized cards. The personalized card is attached to a letter submitted by the issuer, followed by monitoring of compliance with the individual client data printed in the letter. The letter is folded and put automatically in an envelope with a window for the address and other visible individual data; additional materials can also be put in the envelope, in compliance with certain conditions. The prepared envelope is sealed and ready to be sent to the address specified by the issuing bank.

Under the “Sorting and packing cards as per points of delivery” service the cards and PIN codes shall be sorted and packed with a delivery protocol in compliance with the point of delivery nomenclature.

BORICA AD offers print design on each individual card – it could be created by the cardholders themselves, or selected from a pre-designed gallery of images.

The service "Generation and printing of additional attributes on a cover letter" allows adding a barcode or QR code, which optimizes the subsequent process of cards' sorting and distribution to the cardholders. The additional attributes are printed at the address field of the cards' cover letters and their size should be in accordance with the size of the envelope's window.

#### 2.4.5 PIN printing and/or electronic delivery

BORICA AD offers PIN printing on three-ply envelopes with carbon cover sheet. The PIN envelope has an inner sheet of paper that contains the user PIN and instructions for use.

BORICA AD provides a system for electronic delivery of PIN.

##### Description

The system for electronic delivery of PIN provides an alternative way for delivery of a newly manufactured bank card's PIN to a cardholder. The PIN shall be sent after the cardholder provides the unique identifier and authentication code that have been sent together with the card.

The PIN can be delivered through two channels:

- SMS message to an indicated mobile number;
- Another electronic channel - for example by visualizing in the electronic banking of the issuing bank.

Upon SMS delivery, the PIN can be sent to the cardholder either directly or by using a matrix and shifts in it. The client sends the unique identifier and the authentication code to a short SMS number and receives SMS message, containing the PIN or the shifts in the PIN table, making up the PIN.

When a matrix is used, the provided information shall be divided into two parts and shall be sent in the accompanying letter to the card and in the SMS. The accompanying letter contains a table with two rows – the first row indicates the digit shifts forming a user PIN, and the second row contains digits in the range 0-9. The SMS message contains the shifts in the PIN table, making up the PIN.

The system keeps all the sensitive cardholder data in an encrypted form and does not store card numbers.

### Benefits

- Saves costs for printing and delivery of PIN envelopes;
- Faster delivery of PIN codes;
- Enhances the security by providing a second delivery channel, independent of a courier service;
- The delivery is made directly to the cardholder, thus eliminating the risk of abuse;
- Guaranteed support of the cardholders in case of problems, through the Contact Center of BORICA AD.

## **2.5 e-Commerce and mobile services**

### **2.5.1. Card management in 3D Secure scheme**

BORICA AD enables the card issuers to provide their cardholders with secure Internet payments through the 3D Secure scheme. The following protocols are supported within 3D Secure:

- 3D Secure v.1;
- 3D Secure v.2.x, developed by EMVCo and supported by the international card scheme programs: Visa Secure and Mastercard Identity Check.

### Description

The service provided by BORICA AD enables issuers to manage card registration in the Access Control Server (ACS) and to authenticate their cardholders when shopping from Internet merchants.

Issuers can execute card management in ACS by:

- Sending a file – TI and MI;
- Web service;
- ATM, migrated to BNG/WAY4;
- Administrative web interface provided by BORICA.

Issuers can use one or more of these card management methods.

BORICA AD offers different methods of authentication to card issuers for their cardholders, namely:

A) One-time password;

B) Static and one-time password;

C) Mobile authentication (authentication by biometric features).

Method A) meets the requirements of 3D Secure v.1, Methods B) and C) meet the requirements of 3D Secure v.2.x., including Strong Customer Authentication (SCA).

According to methods A) and B), the one-time password generated by BORICA may be provided:

- Directly to the cardholder as SMS message;
- Via a web service to the card issuer, who shall provide it to the cardholder.

In case the issuer chooses to use method B), a static password must be generated. The static password can be:

- Initial/temporary - subject to mandatory change by the cardholder prior to the first authentication, respectively an online transaction. The change shall be performed at a specially created for the purpose ACS internet page.
- Permanent – can be used directly by the cardholder for authentication.

The options for generation and provision of static passwords are as follows:

- The issuer can create a static password, provide it to the cardholder and send information about its value to ACS;
- BORICA can generate a static password (initial or permanent) and provide it together with the PIN code in a PIN envelope or by using Electronic Delivery of PIN\* as SMS or via a web service;
- BORICA can generate an initial static password and sent it to the cardholder via SMS\*\*.

Fees per quantity

\*The fees for electronic delivery of PIN under chapter 2.5, i.5 shall be charged.

\*\*In case of SMS notification the fees under chapter 3.2 - Electronic notification shall be charged.

BORICA AD offers mobile authentication (authentication by biometric features), with the following options:

- B-Token through B-Trust Mobile;
- OpenWay mobile application, as stand-alone mobile application and SDK options. Optional branding of the standalone mobile application with the logo and colors of the financial institution, issuing the card;
- Integration with external solutions such as Mastercard Identity Check Mobile (IDCM).

The initial password for registration of the OpenWay mobile application can be provided as follows:

- Directly to the cardholder as SMS message\*;
- Via a web service to the card issuer, who shall provide it to the cardholder.

\*In case of SMS notification the fees under chapter 3.2 - Electronic notification shall be charged.

Issuers can register one and the same card for more than one authentication method. In these cases, the cardholder chooses the method of authentication within the transaction itself.

BORICA AD provides cardholders with access to ACS page (Customer Portal) where they can perform operations such as:

- Change static password (initial or permanent)
- Change mobile phone number. The issuer may subscribe to a notification service, providing information about changes made by its cardholders;
- Change the Personal Assurance Message;
- Change the language.

BORICA AD provides access for the cardholder's employees to an administrative web interface (Way4Web Workbench), through which can be executed operations such as:

- Activation/deactivation of specific card authentication method;
- Management of cardholder's registration for 3D Secure;
- Change of registration - mobile number, personal message, etc.

BORICA AD enables the usage of risk based authentication (RBA) with the following results:

- Allow – direct approval (frictionless process);
- Challenge – detailed identification of the client's identity is required;
- Decline – rejected transaction.

### Benefits

- The cardholder authentication process provides more data for better security and minimizes the losses of the issuer from fraudulent and disputed online transactions;
- The issuer has a wide range of methods for authenticating its cardholders;
- The use of biometric features contributes to a high level of security and improved customer experience;
- The service ensures compliance with the regulatory requirements.

### \*Notes:

Functionalities related to 3D Secure v.2.x, will be implemented in stages and provided through OpenWay's ACS.

In addition to the above fees, one-time implementation fees shall be charged, which are calculated based on the scope of the requested services.

### **2.5.2. Virtual POS servicing in 3D Secure scheme**

BORICA AD enables the acquirers to provide their merchants with secure Internet payments through virtual POS terminals and the 3D Secure scheme. The following protocols are supported within 3D Secure:

- 3D Secure v.1 protocol;
- 3D Secure v.2.x protocol, developed by EMVCo and supported by the international card scheme programs: Visa Secure, Mastercard Identity Check and Discover ProtectBuy.

### Description



BORICA provides a payment portal and 3DS Server / MPI (Merchant Plug-In) by which is carried out the communication with the central servers of the card organizations, as well as with the card issuer. The design of the payment portal is adaptive and can be customized for a specific merchant. The service provides Internet merchants with a flexible interface and enables them to accept payments after cardholder authentication through 3DS Server / MPI within the 3D Secure technology.

BORICA AD provides merchants with access to the Merchant Portal which allows the following features and functionalities:

- Information portal for monitoring of terminals and transactions;
- Searching transactions by specific terminal/period.

BORICA AD provides access for the acquiring institution's employees to an administrative web interface (Way4Web Workbench), through which can be executed operations such as:

- Easy and convenient registration of merchants and terminals
- Verification and editing static merchant data
- Verification of transactions and searching (by terminal / merchant / period)
- Access management to Merchant Portal for merchants

### Benefits

- By 3D Secure v.2.x protocol the service provides cardholder authentication for purchases in both browser and mobile applications, which facilitates payments with a mobile phone;
- The cardholder authentication process provides more data for better security and minimizes the losses of the acquiring institution and its merchants from fraudulent and disputed online transactions;
- Cardholder authentication through 3D Secure v.2.x improves customer experience and accordingly increases merchant revenue;
- The service ensures compliance with the regulatory requirements.

\*Note: Functionalities related to 3D Secure v.2.x will be implemented in stages, suggesting migration to OpenWay's MPI / 3DS Server.

BORICA retains the existing functionality for card registration at a merchant, participating in the 3D Secure scheme in its current system, and this functionality will be implemented according to the specifics of the service upon migration to OpenWay's MPI / 3DS Server.

### Description

The Service "Card token at a merchant in the 3D Secure scheme" provides the acquiring banks with the possibility to offer to the cardholder the service of registering cards on a merchant's Internet site for the purpose of performing subsequent payments.

The card registration at a 3D Secure merchant is done through a successful card transaction on a virtual 3D Secure terminal of the merchant and is possible in two scenarios:

- During an actual payment to the merchant;
- As a separate operation.

In this scenario, a transaction for BGN 1.00 is performed, and this amount is returned to the cardholder via a "reversal".

In both scenarios, the card is registered at the merchant and the merchant receives the card token only after successful validation and approved by the issuer transaction. The successful validation takes place in the following cases:

- With a card that is registered in the 3D Secure scheme (3D card) and that has undergone successful 3D authentication;
- With a successfully validated activation code, which is generated during a transaction with a card that is not registered in 3D secure scheme (non-3D card).

The generated activation code is provided to the cardholder in the description of the card transaction, which is present in the bank statement, and is to be entered by the cardholder on the merchant's site. The process of card registration at the merchant ends after successful validation of the activation code entered by the cardholder.

#### Benefits

- The merchant does not need to store sensitive data, nor to be certified under PCI DSS.
- The service meets the cardholders' needs for a quick and secure method of performing payments to known merchants.

### **2.5.3 Electronic notification**

The service offers a fast and flexible way of sending individualized or group messages via SMS and email. Possible applications include message of transaction at ATM/POS terminal, bank account movement, upon received order, sent goods, expiring subscription, etc.

#### Description

Fixed price for all Bulgarian mobile operators; easy and quick sending of a desired number of SMS messages (up to 160 symbols in Latin) or e-mail to one or a group of recipients; setting a schedule for automatic sending of messages; real time monitoring of the status of the messages and statistics; keeping a detailed log of sent messages; automatic delivery to mobile subscribers, transferred numbers to another operator – transparency for the sender.

## **2.6 Risks management and compliance**

### **2.6.1 Anti-fraud Monitoring**

Monitoring of transactions (Anti-Fraud Monitoring) is done by the EMS system (Expert Monitoring System). EMS is a monitoring software product, developed by MasterCard and provided by BORICA AD to payment institutions for monitoring and card fraud detection upon authorization/transactions with payment cards. EMS allows them to monitor and analyze transactions performed with their cards or on their terminals for possible fraudulent use.

The system is based entirely on rules and classifications. The system is flexible and adaptable, and the rules and classifications are subject to editing and additional complexity alterations. The rules serve to identify the authorizations/transactions meeting specific criteria. The observing experts at the financial institutions, have limited access rights, and define rules and classifications for various types of fraud and risk. The rules can be created both by using the EMS functions, as well as by random connection of the available fields and combinations of fields in the database tables with selected mathematical or logical operators. The system is organized in a way, that each user has their own separate assignment (assignments) for EMS, and their rules and classifications have no relation to those of other issuers. The rules are introduced and modified by an administrator – BORICA's employee. The experts at the financial institutions, servicing the system, are called analysts and have limited access rights. The system is flexible and adaptable, and the rules and classifications are subject to editing and additional complexity alterations.

### Benefits for EMS system users

- Possibility to monitor transactions performed with their cards or on their terminal in mode "near real time" - input data is updated every 2 minutes;
- Possibility to carry out analysis for suspected card fraud or fraudulent actions by merchants/terminals, act promptly if such are confirmed, thus effectively reducing losses from fraudulent transactions;
- Allows creation of analytical files (cases) of an investigation results, card activity inspection and analysis, possibility to define and implement steps and workflows for analytical files - "case management";
- Possibility to automatically generate analytical cases and to manage and prioritize them, based on numerous criteria, and assigning them to separate analysts or groups;
- Tracking the changes to the rules historically;
- Possibility to sort and filter the results from the analyst work on the basis of numerous criteria;
- Possibility for the users of the system to transfer to their local computers analyses and reports in CSV format.
- 
- Advance service related to the use of EMS and EMS Live system

BORICA monitors authorization messages 24/7 via the EMS system for identifying attacks against BINs of banks using the service. In case of identifying attacks, the operator on duty enters into the EMS Live a restrictive rule for the compromised BIN/BINs within the attack's country of origin, for a particular merchant(s) where attempts for transactions have been identified, etc. As a result, transactions with these BIN/BINs are rejected online during authorization. (The service does not cover blocking individual card numbers, merchants or other than the bank's BIN/BINs).

In addition to this service, BORICA offers improved conditions for batch enrollment in EMS and live prevention rules and EMS Live.

### **2.6.2 Call center services 24/7**

The services of BORICA's Bank Call Center include:

- Identification of bank cardholders by telephone;
- Card activation; /for Sucard as a service holders/;
- Blocking cards in case of theft, loss, damage for security reasons;
- Unblocking cards;
- Unblocking cards when entering 3 wrong PINs;
- Provision of information for card balance;
- Provision of information for last 5 transactions;
- Provision of information for rejected transactions;
- Issues related to Internet payments, blocking/unblocking 3D password for secure payments – VbV, CodeSecure;
- POS – questions, answers, errors/by list;
- POS – transactions verification.

### **2.6.3 Chargeback management**

BORICA AD provides access to the Dispute Resolution System, which enables exchange of information between the users, in connection with fraud and incidents.

The system keeps records of received information (incidents, fraudulent transactions, disputed transactions, etc.) for a period of 10 years.

The scope of the system includes:

- Chargeback by Issuer;

- Goodwill procedure by Issuer;
- Settlement of file for disputed transactions;
- Reporting fraudulent transactions;
- Arbitration Committee.

#### Benefits

- Management system of cases related to chargebacks and refund of disputed amounts;
- Automating the process of document exchange and switch to an entirely electronic documents exchange;
- Ensuring traceability and a long-term archive of each chargeback history;
- Possibility to initiate a refund by the BNB Gross Settlement System RINGS after the end of the dispute;
- Possibility to report fraudulent transactions and keep the information for the purpose of settling disputes and statistics;
- Register keeping;
- Electronic Bulletin.

#### **2.6.4. Risk based authentication**

BORICA AD enables the usage of risk based authentication (RBA) with the following results:

- Allow – direct approval (frictionless process);
- Challenge – detailed identification of the client's identity is required;
- Decline – rejected transaction.

Applying the RBA and risk rules enables you to take advantage of the advanced and improved capabilities of our new 3D Secure solutions, providing you with the following benefits of e-commerce transactions:

- Meeting the requirements of the international card organizations and implementing the options provided for in Articles 10 to 20 of Regulation (EU) 2018/389
- Increasing customer satisfaction by applying the so called frictionless process for low risk transactions that does not require cardholder authentication
- Increasing the security level by introducing appropriate restrictions on Issuing and Acquiring e-commerce transactions

#### **2.6.5. ATM certification to card schemes**

In order to improve the implementation or certification process with international card schemes (ICS) and to optimize the interaction between BORICA and the banks in these projects, BORICA has established a procedure for coordination of the projects between the parties.

#### Description

Upon initiation of a project by the Bank to the International Card Schemes (ICS), BORICA AD offers overall coordination of the project from its start up to its successful completion. For this purpose, BORICA AD appoints a project coordinator, who assists the Bank in completing all the necessary forms and documents, manages and allocates project activities, conducts expert consultations, plans and monitors the tests execution, informs and coordinates with the relevant departments in BORICA AD the necessary settings and parameterizations of the systems in relation to the service.

#### Benefits

- A single point of contact through the whole project
- Expert assistance during implementation

- Better planning of deadlines for execution, respectively reducing the Bank's expenses to the ICS

### **2.6.6. POS certification to card schemes**

In order to improve the implementation or certification process with international card schemes (ICS) and to optimize the interaction between BORICA and the banks in these projects, BORICA has established a procedure for coordination of the projects between the parties.

#### Description

Upon initiation of a project by the Bank to the International Card Schemes (ICS), BORICA AD offers overall coordination of the project from its start up to its successful completion. For this purpose, BORICA AD appoints a project coordinator, who assists the Bank in completing all the necessary forms and documents, manages and allocates project activities, conducts expert consultations, plans and monitors the tests execution, informs and coordinates with the relevant departments in BORICA AD the necessary settings and parameterizations of the systems in relation to the service.

#### Benefits

- A single point of contact through the whole project
- Expert assistance during implementation
- Better planning of deadlines for execution, respectively reducing the Bank's expenses to the ICS

### **2.6.7. Card products certification to card schemes**

In order to improve the implementation or certification process with international card schemes (ICS) and to optimize the interaction between BORICA and the banks in these projects, BORICA has established a procedure for coordination of the projects between the parties.

#### Description

Upon initiation of a project by the Bank to the International Card Schemes (ICS), BORICA AD offers overall coordination of the project from its start up to its successful completion. For this purpose, BORICA AD appoints a project coordinator, who assists the Bank in completing all the necessary forms and documents, manages and allocates project activities, conducts expert consultations, plans and monitors the tests execution, informs and coordinates with the relevant departments in BORICA AD the necessary settings and parameterizations of the systems in relation to the service.

#### Benefits

- A single point of contact through the whole project
- Expert assistance during implementation
- Better planning of deadlines for execution, respectively reducing the Bank's expenses to the ICS

## **2.7 Card back-office**

### **2.7.1 SUCARD**

It is designed for banks and non-bank institutions for management of the business with domestic and international debit and credit cards.

### Description

Automation of the business processes of card issuance and management of bank cards at the card center, credit servicing of credit cards, for accounting processing and financial analysis. SUCARD maintains interfaces in compliance with the MasterCard, VISA, BORICA and JCB standards. The interfaces to internal Core systems are developed according to the technical specification of the Principal. SUCARD possesses a very flexible system for describing various bonus types, loyalty schemes and products.

SUCARD offers comprehensive servicing of the credits under the credit cards, and interfaces for integration with information banking systems. It has a tool for complete quantitative and qualitative analysis of the card business.

It has a module for real time authorization (ATX) of the card transactions. The developed interfaces with the main information system of the bank, as well as the methods used for full reservation of the information processes, ensure the continuity of the bank cards business and facilitate their use as a universal payment instruments. The module has options for integration with other card and bank information systems.

### Benefits

- Management of card products;
- Management of merchants and POS terminals;
- Credit card products;
- Management of fees and commissions;
- Loyal clients;
- Settlement, Clearing and Reconciliation;
- Reports and statements.

### **2.7.2 Card back-office as a service (SaaS)**

BORICA AD provides banks and payment institutions with the service for outsourcing the servicing of issued by them cards and terminals, using BORICA's own card management product SUCARD (including the real-time authorization module ATX).

### Description

The service is provided as *Software as a Service* and is implemented in BORICA AD's infrastructure in compliance with all international security standards in the field of card payments. In addition, cardholders are serviced 24/7 by the Contact Center of BORICA AD.

### Benefits

- Saved costs of the bank/payment institution for hardware, software licenses, administration and operation of the system;
- High level of data security (the system is installed in the PCI/DSS area of BORICA AD);
- High availability of the service provided.

### **2.7.3 Card back-office as a service: WAY4 SaaS (CMS)**

BORICA AD provides banks and payment institutions with the service for outsourcing the card business software, using one of the world's best card management software products – WAY4, developed by the leader in this industry – OpenWay.

### Description

The service is provided as *Software as a Service* and is implemented in BORICA AD's infrastructure in compliance with all international security standards in the field of card payments. The card business

management system allows integration with other systems through web services and other program interfaces.

BORICA provides its clients with three servicing models:

1. CMS for servicing customers – acquirers: WAY4 Acquiring;
2. CMS for servicing customers – issuers: WAY4 Issuing;
3. CMS for full card business servicing: WAY4 Acquiring & Issuing.

In addition to the servicing models, BORICA will offer On-behalf services for customers, willing to outsource WAY4 application administration services, contracted operational functions, as well as bank's/payment institution's customer service.

### Benefits

- Improved management of merchants and terminals acquiring electronic payments, by applying a different hierarchical structure for their definition and maintenance;
- Flexible logic of pricing for different levels in the merchant (Acquiring) hierarchy by providing both new and wider and combined options for applying tariffs;
- Facilitated processes for defining merchants and POS terminals;
- Improved reporting of the status of the customer's POS terminal base;
- Flexible, hierarchical definition of card products, cardholders, terminals and services;
- High degree of parametrization, allowing for a wide range of products and their convenient and reliable management;
- Management of fees, commissions, promotions, applicable tariffs and tariff plans, loyalty schemes;
- Many new risk management tools, including at the different levels of the hierarchical structure – for both the Issuing and the Acquiring functionalities of the system;
- The system maintenance model in the PCI/DSS area of BORICA saves certification and maintenance related costs for the bank/payment institution;
- BORICA's committed to monitoring and implementing card schemes' mandates;
- Effective and flexible methods of generating and providing ad-hoc reports, including reports for the card schemes and the BNB;
- Saved costs of the bank/payment institution for hardware, software licenses, system administration and operation;
- High level of reliability and availability of the service provided.

## **2.8 Loyalty schemes**

The loyalty scheme is a scheme, enabling the bank cardholders to accumulate bonus points for POS transactions executed by them, and other banking products used by them, and to spend the accumulated points at specified POS terminals and on other banking products.

The system operating the loyalty scheme is supported and operated by BORICA AD and is offered as a service to banks. The management of the program settings, including and excluding merchants from the program, defining campaigns and monitoring the Scheme are carried out by the users of the bank through the website of the system.

## **2.9 Mobi-B**

Mobi-B is a mobile application that allows cardholders to use card services via a mobile phone. The application allows registration of great number of payment cards, issued by different banks, participating in Mobi-B. Card data is not stored on your mobile phone.

### Description

Mobi-B is a service for bank cards management and execution of money transfers via a mobile phone. It is designed for all cardholders of cards, issued by banks, participating in Mobi-B and registered in the BORICA system, who wish to ensure maximum safety when using their debit/credit card and have at their disposal a convenient and fast way to make money transfers.

One of the unique features that Mobi-B provides for BORICA's bank cardholders is "locking" of the registered cards. It is very easy, just by pressing a button, and it means that the card is locked for usage, including when accessed physically. Thus, even if the card is skimmed, when it is locked, the risk of unauthorized usage is eliminated.

Another Mobi-B functionality, which increases the security of payment, is the ability to use dynamic CVC/CVV 2 code when shopping online, generated from the application by the user.

Additional means of control of the payments are the services offered by Mobi-B for a real-time check of the status of the account, and a check of the last five transactions made with the respective card.

The expanded range of provided services also covers transferring funds at any time, without visiting a bank branch. The platform allows direct transfer of funds from a registered bank card to IBAN of a Mobi-B subscriber. Another option for sending money is the Cash-M transfer order to a random recipient. The only requirement is that the recipient has a mobile number. The system notifies the recipient via SMS to their phone number and the recipient can withdraw the amount transferred to them at any ATM that supports the Cash-M service.

### Benefits

- possibility of multiple bank cards registration and their easy identification by the user in the interface of the application;
- SIM card replacement is not required;
- no bank cards data is stored, thus data is not at risk;
- real-time monitoring of funds.

## 2.10 Cash-M

This service allows you to receive cash at ATM devices without using a bank card. The order can be made with a card at ATM, through internet banking, in cash at the bank cash desk or through a bank channel. The recipient is provided a four-digit code by the sender and SMS from the system – containing a six-digit code, required to withdraw the amount.

### Description

Cash-M is a continuously available service with minimal time constraints for sending money, and convenience for receiving money at any time of the day, at the nearest and most convenient location. The service is intended for fast money transfers to the amount between BGN 10 and 400. The fee for the transfer is determined by the bank participating in the system.

Cash-M service operates only at ATMs bearing the logo of Cash-M. A full list of ATMs can be obtained from the relevant bank that offers the service Cash-M, or at [www.borica.bg](http://www.borica.bg).

The service provides various reports to the participating banks that are necessary to ensure reconciliation of the transfers, as well as Contact Center.

**\*Cash-M order from a channel other than an ATM** –The service allows transfer of funds to be carried out through alternative channels like Mobi-B and web services.

### Benefits

- Allows sending money urgently in Bulgaria (at every ATM supporting the services, as well as through the mobile application Mobi-B) – the amount is available for withdrawal within several minutes;



- The recipient of the transfer may choose the most convenient ATM to withdraw the money;
- The recipient may withdraw the money at any time, including on weekends and holidays;
- The recipient wastes no time for identification and signature of the received amount;
- The sender may cancel the transfer and take back the amount;
- The system provides high level of security of the transferred data.

### 3 SOFTWARE PRODUCTS

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Clients are provided with the software products against a one-time fee, with the right to use them for an unlimited term. The client receives software product support against payment of periodic maintenance fee. New versions of the product, made due to changes in software platforms, regulations, or legislation, are provided free of charge to clients paying a fee for software product maintenance. Extension of the functionality requested by the client is provided under the maintenance agreement and may result in a new one-time fee for the right to use the new software, and an increase of the periodic fee.

The service is available during working hours.

#### Type of agreement

The standard contracts are "Development and Grant Agreement" and "Maintenance and Support Agreement".

#### Pricing

The provision of software products (tariff codes SW.xx.xx.xxx) is subject of negotiation with the client regarding the type of product, functionalities and specific requirements.

### 3.1 SUCARD

It is designed for banks and non-bank financial institutions for management of the business with domestic and international debit and credit cards.

#### Description

Automation of the business processes of card issuance and management of bank cards at the card center, credit servicing of credit cards, for accounting processing and financial analysis. SUCARD maintains interfaces in compliance with the MasterCard, VISA, BORICA and JCB standards. The interfaces to internal Core systems are developed according to the technical specification of the Principal. SUCARD possesses a very flexible system for describing various bonus types, loyalty schemes and products.

SUCARD offers comprehensive servicing of the credits under the credit cards, and interfaces for integration with information banking systems. It has a tool for complete quantitative and qualitative analysis of the card business.

It has a module for real time authorization (ATX) of the card transactions. The developed interfaces with the main information system of the bank, as well as the methods used for full reservation of the information processes, ensure the continuity of the bank cards business and facilitate their use as a universal payment instruments. The module has options for integration with other card and bank information systems.

#### Benefits

- Management of card products;
- Management of merchants and POS terminals;
- Credit card products;
- Management of fees and commissions;
- Loyal clients;
- Settlement, Clearing and Reconciliation;
- Reports and statements.

## 3.2 PGATE

PGATE is a centralized unified platform for automation of the business processes for management of all types of payments in BGN and foreign currency, initiated from and to a bank.

### Scope

- PGate includes automation of the entire spectrum of processes for processing of all incoming and outgoing cash flows from:
- Client and bank to bank transfers in BGN with settlement in RINGS – transfers executed via RINGS, BISERA, BORICA, etc.
- Domestic and cross-border transfers in EUR from and to EEA banks executed via TARGET2.
- Domestic and cross-border SEPA transfers: SEPA direct debit (SDD) and SEPA credit transfer (SCT).
- Correspondent interbank SWIFT foreign exchange payments.

### Benefits

Automates business processes for preventive controls and liquidity management. Generates and updates the current balance of the bank settlement account. Provides centralized management and complete automation of the bidirectional exchange processes for transportation, control, registration, transfer of information, journaling and monitoring of processes. It provides plenty of statistical information for managers and dealers for financial and comparative analyses. Ensures continuous and secure exchange of the required protection against loss, duplication or change without the sender's knowledge.

### 3.2.1 BSTAR Client

Software for integration with the automated environment for automated asynchronous data exchange BSTAR of BORICA AD. BSTAR Client is used for automation of operations related to information exchange with the Company's systems.

### Benefits

Automates daily operational activities at the bank. Allows tracking the transfer of information from the bank to BORICA systems, and ensures delivery of the sent information.

## 3.3 DISTRAINS

"Distraint" is software application integrated with the core banking system for centralized registering, processing and storing distraint messages, generating responses to the Enforcement Bodies (EB), imposing blockings and lifting imposed distraints.

### Description

The system automates the bank activities regarding the execution of distraint messages in their capacity of liable third party. It effectively services processes such as checking whether a debtor in a lawsuit is a client of the bank, obtaining information about accounts and used bank products, blocking and unblocking amounts, etc.

"Distraint" allows the creation and maintenance of the following main registers: Register of EB contains information about Private enforcement agents, National Revenue Agency, National Social Security Institute, Public Internal Financial Control, State Receivables Collection Agency, Customs authorities, other local and government bodies. The register of distraint notifications stores information of received distraint notifications, such as: distraint for collateral, distraint for execution; disposition; lifting of distraints.

"Distrain" visualizes information from the main system of the client's accounts and bank safes, as well as blockings imposed on them. The system stores in an archive scanned documents, in electronic format, of distraint orders and responses to distraint notices for the entire legally regulated period.

#### Benefits

- Centralizes activities related to receiving and processing of distraint orders in the bank.
- Optimizes the time the bank needs to impose/lift the distraints, as well as their execution.
- Reduces the cost of servicing the growing flow of distraint orders.
- Creates centralized registers and maintains an electronic archive of documents related to the correspondence between the enforcement body and the bank.

### **3.4 SAFE**

Safe is a safe deposit box management system for automating the business processes related to rental of safe deposit boxes and safes. It is applicable to a single safety vault, as well as to a large branch network. With the option of a single pricing and business policy or supporting various individual preferences for branch network.

Centrally maintained information registers for safety vaults, safes, contracts and clients.

Possibility for integration with the core information systems for automated maintenance of a uniform client register, payment of services from an account, accounting of operations.

Interface for data exchange with the Register of Bank Accounts and Safe Deposit Boxes at the BNB under Ordinance No.12.

### **3.5 SEBRA Client**

Designed to service payments of budget entities, included in the Single Account System. SEBRA Client was developed according to the BNB and MoF Guidelines for servicing accounts of budget entities and budget payments, and is independent of the accounting system of the servicing bank.

## 4 INFRASTRUCTURE SERVICES

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The service is provided to clients willing to put their hardware equipment at BORICA's server premises or to use the hardware and system software of the company as a service for their own purposes.

### Description

Infrastructure and services provided in a computer center such as equipment colocation, infrastructure as a service, private cloud. These services are also available with reservation from the two computer centers of BORICA - main and back up.

### Benefits

- Ensuring business continuity, respectively IT services and the necessary infrastructure and communications, aiming to reduce the risk of discontinuity as a result of natural disasters and events of catastrophic nature;
- Outsourcing of distinct parts of IT infrastructure and services that require high capital and operating expenses, qualified personnel and the need for dynamic change of the technologies;
- Achieving better flexibility, efficiency and speed of deployment and change of the IT infrastructure depending on the needs of business;
- Meeting regulatory or business requirements with regard to the level of execution and operation of computer centers for which there is no competence and/or require unreasonably high investment and time;
- Equipment protection and 24x7 security, monitoring, "remote hands" service, etc.

## 5 ELECTRONIC SERVICES

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### 5.1 B-Trust

B-Trust is the trademark of the services, provided by the company as an accredited certification service provider – issuance of Qualified Electronic Signature Certificates, Qualified Electronic Time Stamps, Advanced Electronic Signatures, Electronic Certificates, Server Certificates.

#### Description

The Qualified Electronic Signature ensures credibility and irrevocability of signed electronic documents. The certificate of Qualified Electronic Signature contains information about the signer (Author) and the represented person (Titular).

Scope of service – issuing, renewal, reissuing and management of certificates of Qualified Electronic Signature, issuing Qualified Electronic Time Stamps, servicing of the process of the use and verification of issued electronic signature certificates, providing services for online electronic signature and validation of electronic signature. The management of the electronic signature certificate includes: suspension, resumption and termination of the electronic signature.

#### Benefits

Saves time and costs related to the communication with the government and municipal administration, banks and others; guarantees security; ensures confidentiality of electronic communication. Provides independent verification in time of an event by a provider accredited under the Law on Electronic Documents and Electronic Signature, which may be used in electronic transactions.

#### 5.1.1 Qualified Electronic Signature (QES)

- **Personal certificate for QES** – designed for Individuals. Its validity may be 1 or 3 years. The service includes: issuance of electronic signature; renewal of electronic signature; reissuance of electronic signature; suspension of the electronic signature; resumption of the electronic signature; termination of the electronic signature.
- **Professional certificate for QES** – designed for Legal entities: companies and freelancers. Its validity may be 1 or 3 years. The service includes: issuance of electronic signature; renewal of electronic signature; reissuance of electronic signature; suspension of the electronic signature; resumption of the electronic signature; termination of the electronic signature.
- **B-Trust e-mail** – provides addresses and electronic mailbox in “b-trust.org” domain for the purposes of servicing the use of electronic signatures. B-trust mailbox supports POP3, SMTP, IMAP with a certain volume and duration. The service is requested only upon purchasing QES and has a separate price.

#### 5.1.2 Other certificates

- **Server certificate** – authenticates the server identity and provides encrypted (confidential) communications (SSL or TSL) between the server and the clients (browser). The validity of the server certificate is 1 year, 2 years, or 3 years.
- **Certificate of software or information object** – a specialized type of signature that certifies copyrights and is protected against modification of information objects and software files (with data, code, music, graphics, video, etc.). The integrity and authenticity of the object or file is verified, as well as its creator/owner.

- **Application-oriented certificate** – a specialized type of signature for access to server, protected electronic mailbox or virtual private network, encryption and decryption of data, as well as for specific applications, designed according to the client's specific needs and requirements.
- **Server domain certificate** – Wildcard certificate or server domain certificate is a certificate of the type "\*. xxxxxxx. xxx", where xxxxxxx. xxx is the domain name (e.g. ".b-trust.org") and applies to all servers in the given domain. B-Trust server domain certificate is issued to an individual or legal entity (Titular), who is responsible for the server domain or is its owner. Digitally certifies the identity of the server domain and ensures a high level of compliance between it (Domain Name /URL) and the public key, certified by the issued certificate.

### 5.1.3 B-Trust TSS (Time Stamp Service)

- Service for the issuance of an electronically signed certificate/certificate of validated time/moment of presentation of contents of e-document (time "stamp"). B-Trust TSS requires the signing of an agreement. A monthly fee is paid for access to the service, including the issuance of 600 TST (Time Stamp Token) certificates per month. Each subsequent TST, above this number is charged at a price per unit.

### 5.1.4 Batch Signing Service – Software for electronic signing of documents:

- **B-Trust Signing service** – provides the possibility for signing, validation, encryption and decryption of electronic documents through the use of electronic signature certificates, including Qualified Electronic Signature (QES) certificate. It offers verification of time of electronically signed documents. It supports various formats of electronically signed documents. It offers the necessary level of service SLA.
- **B-Trust Desktop Signer** – a software application for signing electronic documents/files with Qualified Electronic Signature, pursuant to the Law on Electronic Document and Electronic Signature. The product allows manual or automated signing of one or more electronic documents/files. There is an option for adding a certificate of time (Time Stamp) to the electronic signature, as well as encryption/decryption of files in a different format.

### 5.1.5 Cards and Readers

The Law on Electronic Document and Electronic Signature /LEDES/ requires the Qualified Electronic Signature to be stored on a device with a high level of security. Such a device is the smart card, on which the electronic signature certificate, along with the public and private key is stored. The access to the information stored on the card is through a secret PIN code. More than one electronic signature can be saved on one smart card. There are two types of smart cards and card readers - SIM format and standard. In SIM format the card and the reader are located in a single device, while in the standard format both devices are separate. The price is for a card and a reader separately or as a set.

### 5.1.6 Technical assistance for the installation of B-Trust products

Highly qualified service for servicing level 2 requests related to arising problems, need for consultation and training of clients, using B-Trust products and services. The service includes service by phone and on-site of B-Trust clients; testing smart cards and card readers for use with electronic signature; testing services and products for use with an electronic signature.

Type of agreement

The provision of certification services is performed under a standard agreement, the general conditions to which /under a Regulation/ is the User Manual. Electronic signing of documents is an additional service, which is provided also under a standard agreement.

**B-Trust TSS** standard agreement.

**B-Trust Signing service** standard agreement.

**B-Trust Desktop Signer** agreement for provision of the right to use.

#### Pricing

The services are paid on the basis of the applicable BORICA AD Tariff for B-Trust (tariff codes BT.xx.xx.xxx), published at: <https://www.b-trust.bg/>.

## 5.2 B-Token

The solution is a software token that is part of the established B-Trust Mobile mobile application, using biometrics or a code as a standardised means of strict e-authentication and a nonqualified electronic signature, the implementation of which allows institutions to perform the SCA procedure, in accordance with PSD2 and RTS.

#### Description

The scheme of issuance and support of SCA tokens for strict authentication and dynamic connection (transaction signing) is based on an application PKI-hierarchy, divided into autonomous security domains of the institutions participating in the scheme. By means of B-Token every participating institution issues to and support SCA tokens of its customers or users effecting remote payment transactions and/or access to payment accounts in its security domain. A different B-token is issued and supported for every participating institution.

B-Token uses an established secure mobile application B-Trust Mobile for performing 2-factor authentication. The application combines a B-Token for all participating institutions with possible existing cloud QES (Qualified Electronic Signature) certificates in the mobile application. The mobile application has the required security level for remote signing by QES.

In addition to meeting the institutions' needs in the context of PSD2, B-Token can be used as a means of signing documents /files or authentication (Login) for an application, where this need not be done applying a highest security means, namely a Qualified Electronic Signature. Documents signed by B-Token have the force of being signed with a nonqualified electronic signature.

#### Benefits

The software tokens issued standardise the SCA procedure, while the institutions participating in the scheme preserve the autonomy of their security domains. On the other hand, the B-Trust Mobile application is a combination of different means of authentication and means of electronic signature, hence end customers can use a unified and known interface working in different environments.

## 5.3 E-faktura

Electronic invoicing is an automated process of issuing, sending, receiving and processing invoices electronically. Electronic invoicing is part of business processes, called "order - collection", from the supplier's perspective, and "purchase - payment " from the buyer's perspective. The electronic invoices are delivered in a XML-structured format. Documents accompanying the invoices, e.g. delivery notes, notifications, advertisements, certificates, insurances, detailed print-outs, etc. can be attached to the electronic invoices. These documents can be in any format.

E-faktura service includes:



- **Sending and receiving e-invoices** – The issuer has previously compiled electronic invoices through their system or by means of converting tools. The invoices are signed with a Qualified Electronic Signature, then loaded into efaktura.bg. The system notifies the recipient that there is an invoice/s sent to them. The recipient accesses the system and after acknowledging the receipt of the invoices, may examine them, print or store them locally. The system provides an opportunity for online disputes between the recipient and the supplier, if necessary. The dispute may continue until a decision is reached. Upon receipt, many suppliers can transfer invoices to the recipient, who receives them through the system.
- **EDI** – provides the option for sending electronic invoices in EDI format (electronic exchange of structured business documents) via AS2 VAN.

#### Additional services

- **Issuer integration in the system** – Developing a visualization of electronic invoices. Help for the provider or their developer to prepare XML standard of the system. Tool adapting (efTool) for converting data from the ERP system of the provider in XML, signing with QES and uploading into eFaktura.
- **Payment of invoices through internet banking** – service providing invoice payment through a bank's Internet banking. Payment orders are filled automatically with the data of the issuer of the invoice, the amount and the grounds for payment, indicated by the issuer of the invoice. Payment of invoices can be done only through banks, which have connectivity.
- **Payment of invoices with a card via VPOS and 3D secure** – Payment of invoices by the Buyer with payment card via merchant's VPOS (issuer of the invoice).
- **Acceptance of contents** – ensures acceptance of the contents of invoices by recipients in efaktura.bg. After the invoices are signed with a Qualified Electronic Signature (QES) by the recipients, it is deemed that they have accepted the contents of the invoice.
- **Electronic archive** – storage of electronic invoices in the efaktura.bg system.
- **Information about unpaid invoices** – Loading information by the issuer about unpaid invoices, and informing the recipient of invoices that shall be paid.

#### Benefits

Saves time and money when sending electronic invoices and documents; stable form of the electronic document; reduction of errors; fast process for disputing invoices; electronic payments; improvement of the connections between providers and clients; electronic archive.

#### Type of agreement

- Standard agreement for issuer and recipient of electronic invoices – the use of the service E-faktura is provided under a standard agreement for issuers and recipients of electronic invoices.
- Standard agreement for recipient of electronic invoices - the use of the service E-faktura is regulated by the general terms and conditions, published on the company's website, which are accepted by an electronic statement – for the recipients of electronic invoices/they do not sign an agreement with the company/.
- Standard agreement for issuer of electronic invoices with additional option for using EDI format – the use of the service is provided under a standard agreement for issuers of electronic invoices using EDI format.
- PrePay E-faktura – prepaid packages – they can be used only by clients who have Qualified Electronic Signature B-Trust. Each package is with validity term for the number of invoices specified in it. PrePay does not require signing an agreement. One-time payment upon the request of the respective package of invoices.

#### Pricing

The services are paid on the basis of the applicable BORICA AD Tariff for E-faktura (tariff codes EF.xx.xx.xxx), published at: <http://www.efaktura.bg/>.

## 6 BORICA PAYMENT INSTITUTION

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### 6.1 INFOBANK 2

Web - based system, offering in one place up-to-date information on the status of the received and ordered payments on the clients' accounts in all banks.

#### Description

The main goal of the product is to gather information and at the same time provide it in the most convenient way, suitable for various analyses. Infobank has a well-developed system for reports, sorting information, printing and export in various formats. Infobank may be used through a web-interface for online monitoring or work in integration with ERP/accounting software. For this purpose, the information is provided through SOAP protocol and downloaded automatically to the client's system.

- Infobank with Web access – the service includes: uploading in the system, by the servicing banks, of statements with movements in bank accounts of clients requesting the service; the clients of the service receive consolidated information of their excerpts from all banks; the access to the system is by QES, username and password.
- Infobank integrated with Information System – the service includes: receiving information about the movements in the accounts via SOAP web service; providing information on statements which are "final". A final statement is a statement of an account for a date, for which a statement is entered for the following working data.

#### Benefits

- Suitable for companies with a large number of bank accounts and/or a wide network of branches and offices throughout the country.
- Consolidates or combines information from the client's various accounts and banks;
- Possibility for the development of a data file, search, reports and export in various formats;
- Possibility for filtering of the information in the statements;
- Possibility for integration with accounting and ERP systems.

#### Pricing

Services are paid on the basis of the applicable BORICA AD Tariff for Infobank (tariff codes IB.xx.xx.xxx), published at: <https://www.borica.bg>.