

EBANK.NET

Next Gen Digital Banking

WHITE PAPER

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OVERVIEW

ABOUT EBANK.NET

eBank.net is an enterprise omnichannel Online banking solution that enables Banks to provide full range of banking services and content to customers with different user profiles, efficiently and reliably.

eBank.net features Web and Mobile as main online channels but may also integrate heterogeneous and independent additional subsystems such as Call Center (IVR and live agent), Distribution channels (SMS, email, fax), chat-bots, robo-advisors, open banking APIs, etc. into a component solution based on uniform security infrastructure. common administration and shared integration layer to Bank's core financial information systems. The solution offers complete set of functionality banking covering services for retail, private, small and medium businesses and corporate customers.

eBank.net offers flexible feature configuration policy. The Bank may select and configure any combination of channels and features. Open application framework and custom development options allow implementation of specific functional requirements. Every eBank.net deployment project targets best balance in functions, performance, stability, integration and usability, on the highest security level.

COMPANY AND PRODUCT ADVANTAGES

A leader in online and mobile banking.

Company implemented Internet banking solutions for the Top Tier CEE banks, including 4 of the current top 6 in Bulgaria. Customer list includes UniCredit Bulbank (UniCredit Group); DSK Bank (OTP Group); Raiffeisenbank (RBI Group); Postbank (Eurobank Group); TBI Bank (TBI Group), BACB, also specific implementations in BORICA (Bulgaria) and CaSys (Northerrn Macedonia).

Online banking specialist.

As it is the core company business, Dais Software focuses to constantly research, develop and introduce broad range of banking functions, security, technology and modern Web experience, so the development roadmap in business features and technology can ensure continuous evolution and longest lifecycle.

Richest feature set on the market.

In addition to the standard default set of basic account info and fund transfers provided by all vendors, eBank.net offers much more advanced features - to name a few: full support for both retail and large corporates; support for the largest number of customer security options (OTP devices, digital certificates, SMS TANs, etc.); customer activity log and behavior analytics (BI); B2B features (customer ERP integration, e-invoicing) and a number of others.

Maturity and stability.

Since the initial version more than 15 years ago the system has gone through several generations gaining invaluable experience from large volumes on live operations while constantly improving and adopting new technology and functionality. Current live sites handle users in the in the hundreds of thousands range and daily transactions for millions of Euro.

Integration experience.

While focusing entirely on online banking software, the company developed extensive practice in integration technologies to core banking systems. eBank.net has been well integrated to FIS Bankway International; Oracle FlexCube, Finastra (Misys), Fiserv, Delta Informatique and a number of local systems.

Custom strategy approach and custom development.

Complete e-banking implementation strategy includes full synchronization to Bank's business priorities and specifics. Broad financial and e-services know-how and dedicated software development team allow flexible and effective implementation of specific functional and system requirements thus removing limitations typical of fixed-functionality products and solutions.

Reliable support and flexible upgrade policy.

Company's support and maintenance services have proven their quality on the rare occasions while emergency situations had to be covered. Standard support package includes business-critical support and bug fixes.

PRODUCT HIGHLIGHTS

| Features | Benefits | |
|--|--|--|
| Full bank | ing functionality | |
| Full bank products information and management (accounts, deposits, loans, cards, and other) Complete coverage of funds transfers and payments, including full-featured Bill Presentment and Payments (EBPP) platform B2B services (e-Invoicing, online factoring, corporate ERP system integration interfaces) Loan origination, Online applications and requests | No feature cuts in solution deployment Complete match of functionality to the bank's business Full coverage of bank's custom requirements Fastest time-to-market more than 100 banking features built over years of real- world online banking experience Unlimited custom development options | |
| Use | er-oriented | |
| Usability features, preferences, look-and feel User-friendly customer interaction interfaces Terminology respective to the country of service | Better service acceptance by customers Approval by modern internet-oriented users Easier user education and support | |
| Multi-country and localization-ready | | |
| Native Unicode and unlimited languages support Native multi-currency | No local limitations Possibility to use one solution to multiple countries | |
| True omni- | channel integration | |
| Common business and technology design Channel communication and synchronization bus | Reduced operation and support costs for multi-channels Consistency of data on all channels | |
| Business de | velopment features | |
| Single site or separate customer segment sites Reporting and BI analytics on customer behavior | A single solution covers individual bank customers, small and medium businesses and corporate Service offering optimization and cross selling options | |
| Advanced software | architecture and technology | |
| Advanced service-oriented multi-tier architecture Contemporary technologies (latest versions of respective OS, RDBMS, system frameworks and development platforms) | Availability and scalability Long lifecycle and basis for future technology updates Multi-site deployment options Stability and performance | |
| Security | | |
| Richest set of customer security options Application and Infrastructure security Logging, auditing and analytics | Security level appropriate for financial transactions Optimal customer fraud protection Compliance to legal regulations | |
| Operation features | | |
| Minimum maintenance Backup and recovery procedures Optimal interoperability to core banking systems Full-featured administration | High availability Business continuity Real-time banking Better customer administration and support service | |

FEATURE GUIDE

eBank.net offers complete feature sets for banking services, user experience, integration, security and administration.

Web Framework

| User Interaction | |
|---|--|
| Customer web site | Web site presenting banking functionality to customers |
| (optional) Customer segment oriented UI | Optional configuration of different separated sites with specialized user interfaces (Web) according to target bank customers in different business segments - retail, private, SME, corporate - according to Bank's customer segmentation, with different sets of features and presentation |
| Custom Web design | Custom graphical design created specifically for the Bank, according to its corporate style and requirements - different from "logo change" concept of fixed products |

GENERAL BANKING

INFORMATION SERVICES

| Info: Bank accounts | |
|---------------------------------|---|
| Account list w/ type indication | Current (checking), savings, special accounts, with respective attributes and details; Constraints "account type - allowed activity" |
| Detailed account position | Account balances (book and available); turnovers; overdraft limits |
| Account movements | List of transactions on account, with rich filter options: debit/credit (to/from); by type - internal, inter-bank, in foreign currency (SWIFT), cash operation, etc.; search features - for period - start date/end date; by number of last movements; search by beneficiary; in amount range |
| | Account statement – daily, monthly (or other fixed period and format) |
| Aggregated balance | Total balance on accounts recalculated in a specified currency |
| Available and blocked amounts | Available amount on account with information about holds and blocks |
| Transaction details and advices | Details on transaction with visualization of advices where applicable (on internal and local payments – BISERA/RINGS; State Budget, SWIFT advices) |
| Account interest | Account interest information |
| Term deposits info | Extended information for period; maturity and interests |

| Info: Bank cards | |
|-------------------------------|---|
| Credit (and debit) cards info | Balance, Limits, interest, Due amount, Date; Minimum Repayment |
| Card statements | Detailed card transaction information (online if supported by core) |

| Info: Loans and credit lines | |
|------------------------------|---|
| Loan report | Amount, principal, interest, maturity, overdue, last and next payment dates |
| Loan schedule | installment schedule, executed and pending payments |

| Info: exports | |
|------------------|--|
| Exports | Export of reports to .PDF, XLS, .DOC, .CSV, .XML files |
| Printer friendly | Printer-friendly form of table reports, where applicable |

COMMON PUBLIC AND/OR PROTECTED INFORMATION

| General and dynamic info | |
|------------------------------|---|
| Currency rates | Detailed currency rates information, ask/bid book, cash; Currency calculators and converters; Rates history |
| Interest rates | Detailed interest rates information on standard and special accounts |
| Taxes and fees (bank tariff) | Static bank tariff information for taxes, fees, terms and conditions; Option for tariff formalization and dynamic info |
| Tariff calculators engine | Tariff formalization and dynamic info - calculators and wizards on formalized bank tariff |
| Loan calculators | Full-featured configurable loan calculators, wizard style with support of different types of loan installment schemes and fees, APR calculation and installment schedule generation |
| Deposit calculators | Full-featured deposit calculators |
| Protected documents | Access to protected documents for registered customers - bulletins, briefs, comments and analyses from bank experts |

ACTIVE OPERATIONS

| Active: payment operations | |
|-----------------------------|--|
| Local payments | Credit payment orders – internal and inter-bank ; Payments to State budget (if applicable); express option (i.e. RINGS in BG bank payment system) |
| International payments | Payments in foreign currency to local and international beneficiaries (SWIFT, SEPA) |
| Direct debit | Direct debit order (request) Direct debit register; management (review received; approve; cancel) |
| Budget payments | Payments ordered by State budget organizations (if applicable) |
| Law regulations constraints | Complete set of validations according to current State and National Bank regulations on payment order attributes, limitations and required supplements, declarations for national bank statistics, anti-money laundry, full IBAN regulations compliance |

| Batch (mass) payments | Import, parsing, processing and execution of multi-record payment orders (local and international, incuding SEPA) |
|-----------------------|---|
| | Full processing, formal control and processing log; |
| | Supported built-in formats (BISERA standard, flat file) and option to add new import formats |
| | Payroll file upload and processing |

| Active: Funds transfer | |
|------------------------|--|
| Currency exchange | Currency exchange between own accounts; Option for interface to Treasury department for preferential rates and advanced FX deals |
| Accounts funding | Money transfer between own accounts for purposes of current, savings, card account funding, etc.; credit card recharge; prepaid card recharge; |

| Active: Templates and payment transfers management | |
|--|--|
| Beneficiary database | Save and manage local and international beneficiaries for payment operations, with respective attributes |
| Payment templates | Save and manage payment operation templates |
| "Create similar" option | Create new payment operation with attributes copied from an existing one |
| Payment scheduling | Options for execution date and expiration date of payment order |
| Recurring payments | Save, schedule and manage templates for regular payment creation |

| Active: Money management | |
|--|--|
| Opening and management of time deposit | Opening of deposit with funds from current account; Closing of deposit or change of deposit terms on maturity dates |
| Account opening | Online account opening application |
| ZBA and sweep accounts (*) | Operations on Zero-Balance accounts and fixed balance accounts |

| Active: Loans and lines of credit | |
|-----------------------------------|--|
| Loan origination application | New loan application, with state tracking option and integration to internal workflow engine, if any |
| Loan utilization | Loan utilization request |
| Loan re-payment | Loan re-payment operation |

Active: Bank cards

Bank card request

Requests for debit and credit card issuing

Limits and conditions change Requests for change of transaction, daily or weekly limits and other conditions requests

| Active: Payment | processing | |
|---------------------|------------|---|
| Payment status tr | racking | Tracking of payment execution state (pending, executed, rejected, etc.), with timestamps (*) |
| Store & forward p | orocessing | Delayed processing of orders in off-hours with bank information system business date validation |
| Payment cancella | tion | Payment cancellation available to customer, depending on execution state; by bank cut-off times |
| Payment sequence | operations | Payment operation sequence execution (e.g. funds transfer, currency exchange and international payment) |

Online Payments

| Bill payment | |
|------------------------------------|---|
| Bill presentment | Presentation of information for payments due to public utility services |
| Bill information integration | Broad range of adapters to popular local (Bulgarian) utility providers |
| Bill payment | Execution of payments to public utility services |
| Bill payments - direct debit model | Standard automatic bill payment to utility services - direct debits management - consents, regular payments, cancellation |
| E-invoicing | Collection of invoices and receivables by vendors and payment by customers |
| Bill payment templates | Pre-defined templates for payments to public utility services |
| Cash collection | Option to provide same payment engine to Front office as channel for cash payments |

| Card payments | |
|---|--|
| E-commerce and Electronic payments via card processor | E-commerce site integrations, Merchant payments, Virtual POS integration Option for standalone E-commerce Ready Deployment with 3D Secure compliance |

OTHER FINANCIAL SERVICES

| Documentary services | |
|----------------------|----------------------------------|
| Letters of Credit | Create and edit L/C applications |
| Letters of Guarantee | Create and edit L/G applications |

| Securities | |
|------------------------------|---|
| Securities sales information | Sales information about securities traded by the Bank (ask/bid price, yield, etc.) |
| Securities portfolio view | View and management of the portfolio of securities |
| Securities trade | Requests for buy/sale deals. Treasury department integration-ready, with preferential prices and transaction tickets support. Request for buy/sale deals with funds of Asset Management companies |

| Pension, insurances and tax | |
|-----------------------------|---|
| Insurance sales | Buy insurance products, re-apply for insurances and re-form insurance terms |
| Payments on insurances | Payment of installments on insurances |
| Pension fund payments | Payment of installments to pension funds |
| Tax payments | Payment to national state budget of personal or corporate taxes |

Personal Finance management

| PFM tools | |
|---|--|
| Income and expense tracker (with predefined and custom income and expense groups) | Present income (debit transactions) and expenses (credit transactions) for a period as absolute amount and relative ratio of each income and expense group |
| Budget setting and comparison to actual finances | Definition of target expenses and income and comparison of real income/expenses vs. planned budget |
| interactive visualization of customer position | Single view of customer position with visual tools (charts – diagrams, bar charts, pie charts; projected) |

USERS CONCEPT AND CORPORATE FEATURES

| Client object model and generic access control | |
|--|---|
| Online client | The registered entity - company or individual that is registered to use banking services through electronic channels. |
| Online user | Named user of the system - authorized person, assigned as a representative of the customer. All activities in the system from client's viewpoint are performed by the Online user. One Online client has one or more Online users |
| Access control | Channel login for Online user - possibility for different credentials and access methods for access on different channels. Credentials and certificates expiration check. |
| Session management | Control of the session of the Online user - session opening, detailed logging of activities on a session with timestamps, session logout - by expiration or forced. |
| Rights control | Validation all rights of Online user on products and services for respective Online client, check for assigned constraints (such as allowed / restricted operations on product, limits if any, etc). |

| Corporate banking | |
|-----------------------------------|---|
| Authorized signers concept | Authorized persons definition for corporate customers; Complex permissions and limitations on customer's accounts of authorized persons |
| Bank customer multi-client access | Access by one authorized person to accounts of different bank clients with different permissions. Applicable to groups of companies and holdings operating both as a single structure and as separate legal entities. |
| Payment execution rules | Payment execution rules – payment groups defined for each corporate user, with required number of signatures from specified payment groups for effective payment execution for amounts over a specified range. Flexible scheme allowing corporate users with number of authorized persons to apply an ordered payment system. |

EXTENSIONS

ELECTRONIC STATEMENTS

| e-statements | |
|---|--|
| Integration to document storage for printable | Presentation of official printable statements (on accounts, loans, cards) on Internet banking |
| statements | Statements mailing (optional signed with digital certificate) |

Online Request processing workflow

| Online requests | |
|--|--|
| Request register engine | Internal Workflow to support handling of online requests with configurable states; |
| Cash withdrawal / Cash deposit requests | Cash withdrawal / cash deposit request with representative appointment and authorization |
| Online registration | Online registration customers – individuals and corporate |

B2B INTEGRATION

| B2B features | |
|---------------------------|---|
| Volume data export/import | Export statements data in electronic format for automated processing of corporate bank customers, in standard (MT940, XML, other) or custom formats – for download via website; distribution via e-mail or other channels |
| XML Web Services | XML as a standard for data presentation; Exposing of eBank functionality as secured XML Web Services |
| Custom B2B services | Custom development of data exchange interfaces, if required by the Bank. |

USER EXPERIENCE

| Usability options | |
|-------------------------|--|
| User session info | Detailed user session information available to customer (login and logout timestamps and IP addresses, detailed activity log) |
| Free messages / Mailbox | Free messages from customer to bank and from bank to customer |
| Customer preferences | User interface look-and-feel; Home page setup, bookmarks, most used; Operational preferences - value date of payment orders, default accounts, etc. |
| Profile edition | Username and password change; Edit personal data (with option to sign changes electronically) |

MOBILE BANKING

| Mobile banking | |
|---------------------|---|
| Mobile devices | Fully functional and <u>completely integrated</u> Mobile banking apps top Mobile OS supported – iOS, Android |
| Tablet applications | Optimized tablet application for top tablet OS – iOS, Android (opt. Windows) |

OTHER MOBILE FEATURES

SMS, E-MAIL: SUBSCRIPTIONS, NOTIFICATIONS AND ALERTS

| Subscriptions | Periodical sending of reports on distribution channels (daily, weekly, monthly, with periodical conditions and timeframe configuration – edition on web channel). Implementation depending on channel. |
|-----------------------------|--|
| | Currency rates, account balance – SMS, e-mail |
| | Account transaction report – e-mail |
| Push Notifications / Alerts | Event-based report sending on distribution channels on event (BIS event or external event). Implementation depending on channel. |
| | Balance change – SMS, e-mail; Incoming transaction – SMS, e-mail |
| | Payment signed – SMS, e-mail; Login to online banking – SMS, e-mail |
| | Loan repayment amount; due date; overdue alert – SMS, e-mail |
| | Bank card repayment amount; due date; overdue alert - – SMS, e-mail |
| 2-channel validation | Validation information (codes, transaction IDs, etc.) sent to distribution channel on security-based event. Implementation depending on channel. |

| SMS banking | SMS information requests and payments |
|----------------|--|
| Micro-payments | Secure m-commerce and m-payment applications |

OTHER CHANNELS INTEGRATION

COMPUTER TELEPHONY

| Voice, Call Center, Fax | |
|----------------------------|--|
| Call Center integration | Integration to Call Center and IVR platforms (*depends on platform vendor – ready-to-run interfaces for Cisco IPCC supported; other available for development) |
| Call Center active banking | Dual-mode user authentication (customer + agent) and enablement of payment operations for agents, with one-time passwords or other authorization mode |
| Faxing of reports | Account transaction report, Statements, General information |
| Active phone banking | Funds transfer /own accounts/, bill payments on phone bank (IVR) channel |

ADMINISTRATIVE, BACK OFFICE AND INTEGRATION

Administrative features

| User management | |
|----------------------------|---|
| Standard user management | Default user options - default permissions and limitations for easy administration of individual customers. |
| | Subscribed accounts, personal rights on accounts : for active services + transfer limits (weekly, daily, one-time) for transactions; Access management: passwords expiration/ auto lock / forced password change |
| Extended user management | Additional advanced and corporate user options – management of authorized signers, payment groups/rules, extended permissions and limitations |
| User registration workflow | Internal workflow with Intranet interface for multi-step user registration and edition (with cost center operator options). Bank user administrator defined in roles such as "registrator", "editor", "supervisor", "security officer", etc, with different obligations in user management workflow Customized to bank requirements |
| Issue user credentials | Issue usernames and encrypted passwords from administrator - security officer; Option for PIN envelopes print, option for scratch-code cards assignment |

| Reporting and Statistics | |
|---------------------------------|---|
| Usage stats | Full usage statistics: user access logs – detailed information on web sessions, time, duration, services used; |
| Application logs | Comprehensive application logs, with options for information, warning and critical messages and administrative alerts |

| Content management | |
|--------------------|--|
| CMS application | Edit, publish, and manage static and dynamic Web content of e-banking site by Bank's e-banking service managers at a Content Management system |
| Custom controls | Possibility to embed custom (Bank or Third party developed) controls and applications into eBank.net platform |
| Resource edition | Resources (strings, images, etc.) edition options |

| CRM options | |
|------------------------|---|
| Account manager access | Special enhanced access for account managers and help desk users to reports and analysis of customer activity |
| CRM DB integration | Integration to existing CRM databases with options for access to bank customer aggregated data and profiles |

| Billing | |
|----------------|---|
| Billing engine | Set charges and costs for using e-banking services by customers; Optional bank charges overriding |

| Warehouse and reporting | |
|-------------------------|--|
| Data extract | Development of packages to extract data to bank data warehouse |
| Sales reporting | Option to indicate the bank salesman while registering customer for sales reporting purposes |

| Business Intelligence and analytics | |
|-------------------------------------|--|
| Customer activity log analysis | Analysis of customer activity log to monitor trends of usage, preferred products, time-zones, patterns |
| | Optimization of product offering; Cross-selling; Personalization |
| Anti-fraud monitoring | Monitoring of behavior - suspicious sessions and transactions depending on predefined rules |

INTEGRATION

As a key point in online banking implementation, the interface between eBank.net and core banking information systems is being designed, built and tuned specifically for every particular case. In addition, experience and already integrated stable interfaces have been implemented for high-performance online banking to a number of well-known core banking vendors.

| Core-banking integration | |
|---|---|
| Core banking | Stable interoperability interfaces to core banking systems FIS Bankway International, Oracle (former i-flex solutions) FlexCube, Finastra (ex-Misys) Midas, Fiserv ICBS, Delta Informatique and a number of local vendors |
| | Custom interface between eBank and Bank Information Systems, designed and implemented specifically for every particular case |
| Bank host online and offline operations | Online and offline BIS interoperability mode with temporary storage of customer data and store-and-forward mode allowing non-stop e-services operation |
| Interop technology know- how | Already implemented connectors, EAI-trained staff and broad experience with SQL-based database sources; Messaging (MQ Series, MSMQ); Windows API functions; RPC; TCP/IP communication; HTTP (SSL); COM/COM+ components |

| Other systems integration | |
|---------------------------|--|
| Card systems | Connectors implemented on ISO8583 protocols and other proprietary protocols (ACI SPDH, etc.) |
| Other modules integration | Custom development of interfaces to Treasury, Back office, Retail, Accounting, CRM, Directory, Security systems for data exchange and interoperability, if necessary |

Open Banking

| PSD2 compliant features | | | |
|---------------------------------------|-----|--|--|
| Open APIs | | Open APIs for access to accounts, payments based on formal PSD2 specifications and also additional APIs exceeding current PSD2 scope | |
| Consent management | | Smart consent management | |
| Authentication Authorization flows | and | Full coverage of redirect, decoupled and other flows for Strong Customer Authorization and authentication | |

DIGITAL ONBOARDING

| Onboarding Process for | On-boarding Workflow engine |
|-----------------------------------|--|
| companies and individuals | |
| Person and company identification | Integration to user (person) KYC service with ID check and video identification Integration to company KYB service with checks to national company registries |
| Onboarding documents processing | - Generation - Storage in e-Archive - E-signing with qualified signing service |

SECURITY

eBank.net general security framework is designed and built over industry standards for security, including identifying and applying practices for authorization, authentication, cryptography, session management, sensitive data management, infrastructure security, auditing and logging.

Security highlights

| Standard categories | |
|---------------------|--|
| Authentication | Unique user codes and passwords for eBank.net channels access; Password expiration and user disablement; User passwords stored one-way encrypted |
| Authorization | User credentials and privileges validation on every resource and application block; Personal permissions on banking services |
| Cryptography | PKI and digital certificates as a standard for user authentication, integrity of data interchange, confidentiality and preventing repudiation issues |

| | eBank.net supports PKI-based security, implemented through usage of personal digital certificates for authentication and enhanced security on selected customer services (payment orders, funds transfers and other operations), with all sensitive data signed with user's digital signature. User certificates are stored on a secure device (token or smart card). eBank.net PKI implementation is compliant to currently effective Electronic Document and Electronic Signature Law and supports QES (Qualified Electronic Signature) by certified national vendors. |
|---------------------------|--|
| Session management | Unique session identifiers and secured session details storage; Session lifetime control on every discrete user action |
| Sensitive data management | Sensitive data stored, sent over network and logged in encrypted form |
| Infrastructure security | Secured network infrastructure provided by the Bank; Encrypted traffic between application tiers; SSL where applicable; Securing eBank.net servers |
| Auditing and logging | Full log of user activity; Audit of application activity through all application tiers |

CUSTOMER SECURITY OPTIONS

| OTC and OTS devices | OTC - One Time Codes, and OTS - One Time Signatures with cryptographic devices – complete integration with VASCO data security solutions |
|-------------------------------------|---|
| Bank account management integration | Integration to existing central Bank user account management systems providing credentials and sign-in services to customers (Single sign-on) |

SINGLE DIGITAL ID SUPPORT

| OAuth2 | and | OIDC | Identity server component with certified support for OAuth2 and OIDC for omni- |
|------------|-----|------|--|
| compliance | | | channel single Digital ID (Optional FIDO2) |

STRONG CUSTOMER AUTHENTICATION AND AUTHORIZATION

| Multi-factor solution | Support for hardware and mobile tokens, TOTP, mobile TANs and other |
|-----------------------|---|

ANTI-FRAUD SOLUTIONS

Г

| Integration solutions | to | anti-fraud | Monitoring of "suspicious" transactions by configurable criteria in anti-fraud platforms |
|-----------------------|----|------------|--|