



## AutoIBANKER

AutoIBANKER is a Shariah-compliant Islamic banking system which caters for the requirements of Islamic banking via its customizable parameter setup, enabling banks to offer a competitive range of Islamic financial products providing online and real time synchronized banking business automation.

Clients using AutoIBANKER for Islamic banking benefit from maintaining control over their operational costs and maintaining focus towards enhanced customer services.

### 1. General Ledger (GL)

AutoIBANKER provides comprehensive user definable setup for general ledger codes that contain all of the financial accounts of the bank; including on / off balance sheet accounts and control accounts.

#### FEATURES

- Chart of account maintenance up to 'n' levels
- Automatic posting of journals and updating of consolidation accounts
- Full multi-currency support
- User defined restrictions on GL accounts
- Automatic reconciliation of transit accounts
- Asset/Liabilities based flexible reporting
- Allows cost centre-wise accounting and reporting
- Grouping of branches within regions for monitoring and consolidation

## 2. Business Partner Management

- Unique identification number throughout the system
- Provision of maintaining different types of business partners e.g. customers, suppliers, valuators, etc.
- Personal details
- Flexible and parameterized interface setup for KYC details
- Multiple addresses (purpose wise)
- Contact person (in case of company)
- Grouping of partners hierarchy wise
- Stakeholders details
- Document checklist
- Flexible search and traceability in the system on unique identification (NIC, passport, license no, etc.)
- User definable data tagging for reporting and analysis
- Associated bank department/RM contact details

## 4. Product Setup

- Flexible and configurable product setup interface
- Parameterized controlling of product by:
  - *Defining account related parameters and their behavior*
  - *Defining profit calculation mechanism*
  - *Defining balance related parameters*
  - *Mapping with GL heads for consolidated reporting*
  - *Defining Zakat processing parameters (if applicable)*
- Product override availability at account level to handle exceptions
- Product capitalization
  - *Plan based capitalization for loans*
  - *Product capitalization on user-defined frequencies*
  - *Option to force capitalize the products*
- Mapping of profit pay and charge methods
  - *Daily basis*                      — *Minimum daily*
  - *Minimum and average balance during the month*

## 3. Account Maintenance

- Flexible and policy based account structure
- Provision of opening multiple types of accounts
- Provision for handling HIBA on accounts.
- Option for both centralized and branch based account opening
- Tracking of primary and secondary customer information in case of joint accounts
- Mapping of multiple correspondence addresses with requisite correspondence type i.e. account statement, e-statement
- Standing orders and overnight placements
- Multiple care code tagging to an account
- Automatic tagging of dormant and inoperative accounts
- Mail merger facility and address label printing facility
- Letter of thanks generation facility for accounts opened during a given period
- Online availability of account statements for 'n' years
- Maintenance of document checklist

## 5. Profit Calculation

- Parameterized profit rate definition with the option of defining rates in a fixed single slab, multiple slabs, tiers & on step basis
- Configurable mapping of profit rates with products for profit chargeable and payable
- Appropriate process management for HIBA on accounts.
- Option of multiple profit calculation methods including daily, average, minimum and daily minimum
- Daily profit accruals as per the definition of profit calculation on accounts
- Recalculation of profit on user defined period for an individual account or all accounts in a product
- Provision to apply back value dated Profit rates on different products

## Islamic Products

## 6. Pool Management

- Provision of defining multiple pools and their grouping at the discretion of management
- Provision of maintaining different pool types i.e. general pool, deposit/ Mudarabah, ITD, equity pool
- Mapping of asset side transactions with different pools
- Provision to set up customized Mudarabah fee sharing ratios i.e. Mudarib and Rab ul Maal
- Calculation of weightages for next month projections based on historic data
- Automated profit calculation for all types of deposits i.e. Mudarabah investment / saving accounts on average / minimum balance
- Option of adjusting weightages by injecting income from equity pool

## 7. Islamic Term Deposit (ITD)

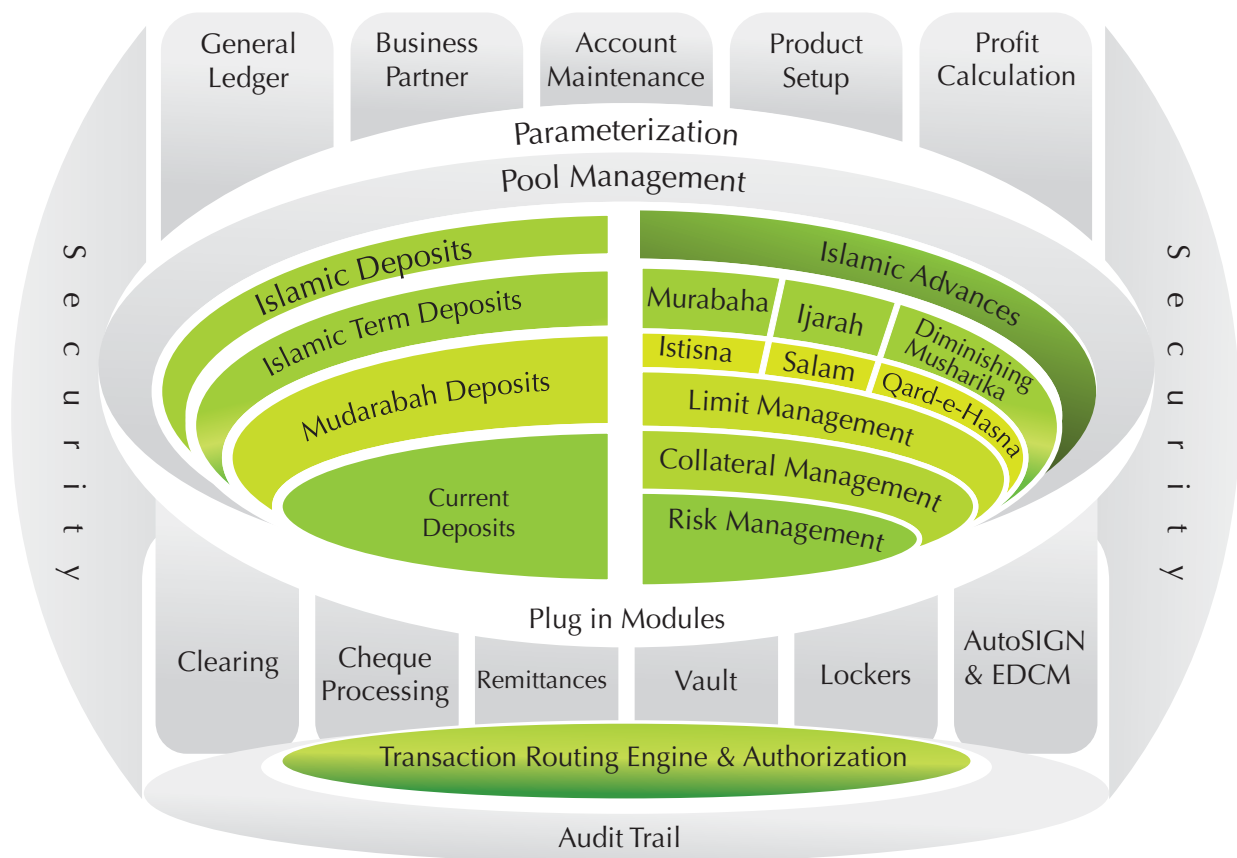
- Provision of issuance of ITD with customizable tenure
- Handling of premium and Hiba rate
- Handling of deal capitalization on different profit payment frequencies, i.e. monthly, quarterly
- Automated ITD deal recalculation on effective profit rates defined through pooling mechanism
- Provision of automated deal maturity and rollover process with following options i.e. encashment, rollover with principle, rollover with principle and profit
- Customizable processing of deal pre-maturity as per management decision in line with Shariah guidelines
- Provision of marking ITD deal as lien, blocked and deceased
- Automated advices generation i.e. encashment advice, rollover advice, profit payment advice
- User definable data tagging for reporting and analysis

## 8. Mudarabah and Current Deposits

- Maintenance of Mudarabah (saving accounts)
- Maintenance of current account
- Provision for handling HIBA on accounts.
- Profit rate maintenance:
  - Fixed rate
  - Step
  - Tier
- Profit calculation options
  - Minimum
  - Average
  - Daily
- Profit payment for Mudarabah account based on
  - Rates calculated from pooling on monthly, quarterly basis

## 10. Murabaha

- Provision of booking different types of Murabaha:
  - Murabaha financing
  - Import Murabaha
  - Advance against Murabaha
  - Spot Murabaha
- Automatic transaction posting at the time of declaration and booking of Murabaha
- Option of capturing commodity declaration details
- Customizable rebate mechanism at the time of early settlement



## 9. Islamic Advances

- Online approval mechanism for credit line proposals
- Customizable disbursement types i.e. one time, open, tranches and partial disbursements
- Option of maintaining different types of repayment plans including bullet, deferred and staggered plans automated recovery of rentals/ installments, charity charges
- Maintaining Shariah compliant charity account
- Handling of early /prematurity of contract
- Balloon payments
- Automated accrual process for all types of Islamic advances
- Provision of defining different types of profit rates i.e. fixed, floating (linked with KIBOR etc.)
- Automatic settlement of advances and closure of accounts
- Highly customizable feature for configuring classification of loans as per the regulatory authorities
- Automated loan loss provisioning
- Ability to tag different types of rating like credit, customer and facility rating for risk management reporting
- Linkage of pool with Islamic advances for calculation of profit sharing
- Automatic opening of all Islamic advances related accounts
- Customizable system generated legal agreements / contracts for all types of Islamic advances

## 11. Ijarah (Corporate / SME / Retail)

- Booking of all types of Ijarah financing in line with different Islamic banking accounting standards, i.e. IFAS- 2 and AAOIFI
- Capturing details of all Ijarah assets through a detailed asset management module
- Provision of asset delivery confirmation
- Automated calculation of “purchase price”
- Options of handling insurance and registration charges in rental plan i.e. lump sum, distributed / financed
- Comprehensive and automated Ijarah re-pricing option on floating rates
- Provision to generate various Ijarah letters and reports

## 12. Diminishing Musharakah

- Booking of all types of Diminishing Musharakah
  - *Outright purchase*      — *Renovation*
  - *Construction*            — *Asset Transfer (ATF)*
  - *Land and Construction*
- Provision of capturing Musharakah asset details
- Provision to handle:
  - *Price of financier’s share being purchased*
  - *Rent on financier’s share outstanding*
- Maintenance of asset and life insurance
- Maintenance of list of Takaful companies
- Maintenance of locations [positive and negative areas and locations of property]
- Provision to generate various Musharakah letters and reports

## 13. Istisna Financing

- Provision of booking different types of Istisna:
  - *Project financing*      — *Bridge financing*
  - *Financing of plant/factory/building*
- Maintenance of progress (construction, production) of Istisna Asset
- Maintenance of delivery of Istisna asset
- Settlement through following options :
  - *Murabaha*                — *Cash settlement*
  - *Ijarah*                     — *Parallel Istisna*
  - *Diminshing Musharakah*

## 14. Qard-e-Hasna

- Automatic Qard-e-Hasna account opening
- Qard-e-Hasna loan disbursements
- Qard-e-Hasna loan maturity handling

## 15. Salam Financing

- Provision of booking different types of Salam:
  - *Salam finance*            — *Parallel Salam*
- Maintenance of “delivery schedule of Salam asset”
- Booking of profit and loss on sale of Salam asset
- Settlement of Salam through:
  - *Murabaha*                — *Parallel Salam*
  - *Cash settlement*

## 16. Limit Management

- Limit handling for corporate /SME / commercial customer
- Maintenance of limits at different levels
  - *Group level*                — *Customer / company level*
  - *Product level*              — *Funded / non funded*
- Online approvals for customer limits
- Configurable alerts / messaging for limit management users
- Limit blocking / partial blocking
- Limit activation / deactivation
- Limit cancellation
- Temporary OTT handling
- Limit clubbing (for funded / funded, funded / non funded, non funded / non funded)
- Limit audit trail
- Comprehensive version maintenance of limit structure for every client limit history

## 17. Collateral Management

- Provision of defining multiple collateral types
- Provision of classifying collaterals as tangible/intangible, liquid assets
- Provision of defining different mortgage types i.e. equitable, token-registered, full-registered
- Maintaining collateral margin/haircuts
- Complete bank wise funded and non funded exposure position in line with their collaterals
- Controlling margin percentages based upon their linkage with collateral types
- Provision of maintaining list of prohibited collaterals
- Option of defining charge types on collateral and their respective details i.e. first charge, second charge, etc.
- Collateral insurance
  - *Per proposal risk*            — *Overall insurance company risk*
- Automatic discharge of collateral at settlement

# AutoBANKER

## 18. Risk Management

- Integrated with AutoRISK credit risk rating and scoring model
- Profitability/risk exposure details profiled by customer or customer group
- Maintenance of exposure caps
- Risk management parameters as per Basel II
- Ability to tag different types of ratings like credit, customer and facility rating for risk management reporting
- Bank exposure tracking
  - Region wise
  - Currency wise
  - Industry/sector wise
  - Branch wise

## 19. Clearing

- Complete cycle management (remitted / received cheques)
- Decentralized / Centralized clearing and handling of regional branches
- Interface with cheque processing systems
- Handling local and foreign currency cheques
- Customizable clearing charges for realization and cheque return
- Integration for credit-side post dated cheques
- Provision of printing schedule bank / branch wise

## 20. Cheque Management

- Multiple cheque book issuance linked to a single account
- Logging of cheque book issuance requests
- Downloading of customer information for personalized cheque book printing and issuance
- Tracking of individual cheque leaves i.e. used, available, stop payments, etc.
- Cheque stop payment and resumption instructions
- Customizable cheque book charges for issuance, stop payment, etc.

## 21. AutoREMIT (Inward / Outward Remittances)

- Issuance for same and other banks
- Handling of charges and commission in other bank issuance
- Payments for own branch and other branches
- Option for marking stop payment to any instrument
- Release payment
- Duplicate issuance of instrument
- Cancellation of instrument
- User definable data tagging for reporting and analysis
- Integrated with SWIFT for generation of remittance related messages
- Customizable remittance charges and duty for instrument issuance, duplicate issuance, stop payment, etc.

## 22. Vault Management System

- Cashier drawer management
- Branch vault management at EOD
- Inter cashier transfer
- Forced cashier drawer closing
- Currency denomination definition/maintenance
- Exchange of currency notes

## 23. Locker Management

- Provision for different types of lockers like large, small, etc.
- Locker issuance for walk-in and bank customers
- Maintenance of details of different holder types including principle, attorney and non-account holders.
  - Locker renewal
  - Locker closing
  - User definable data tagging for reporting and analysis
- Customizable locker charges for issuance, renewal on different criterias

## 24. AutoSIGN & EDCM

- Scan and manage documents for viewing after authentication and authorization
- Signature card scanning, verification and authorization
- Separate database used for encrypted storage of documents
- Authorized access to the documents from anywhere within system
- Provision of attaching relevant documents to any transaction
- Filter and sort, easily and quickly, for efficient document locating and printing
- Documents emailing facility
- Archival of documents

## 25. Automatic Transaction Routing and Authorization

- Configurable parameter setup for exceptional transaction routing such as overdrafts, dormant accounts, forced capitalization, account closing and stop payments
- User definable activity based vouchers
- Customizable setup for applying financial and non-financial authorization for all types of transactions
- Customizable setup for applying single, dual and multiple authorization
- Option of centralized and decentralized authorization model
- Option of defining debit/credit authorization levels
- Instant messaging for remote authorization
- Complete audit trail / logs for financial and non-financial authorizations

## Advanced Application Features

- **On-line Real Time Processing** - This feature enables all entries, including transactions and parameter maintenance, to be validated and processed online with real-time updating of the database. It ensures that the system provides current information at all times.
- **Customizable User Friendly Menu Driven Interface** - This feature enables clients to navigate through different menus to access particular functions. Moreover, it contains an option enabling clients to customize the menu contents and error messages. Information alerts on different codes used within the application are also available on relevant stages.
- **Parameters** - The system is totally parameterized with over 90% of processing being parameter driven including chart of accounts, product setup, schedule of charges and module specific parameters.
- **Information Retrieval and Report Generation** - This function ensures efficient retrieval of information and reporting to the bank's customers and management. The system also provides financial reports including balance sheets, customer ledger reports, daily product calculation reports and account activity reports.
- **Security** – The system is highly security driven incorporating the following security controls:
  - *Operational Controls* refer to the security services required to maintain integrity and availability of data across the application including Start of Day and End of Day procedures, data backup & restore procedures and account balance integrity checks.
  - *Application level security* refers to those security services pertaining to users of the application including password security (password length, expiry, history encryption, etc.), user level security (user roles, authorization and transaction limits, menu, interface and tab level rights, etc.).
  - *Database level security* refers to the system, processes, and procedures that protect the database from unintended activity including access control, auditing and data encryption.
- **Auditing** – The system facilitates enabling/blocking of users based upon their IP addresses. All activities can be tracked and monitored through the session ID and complete audit trails and logs are available which enable the bank to carry out following tasks:
  - *Audit log monitoring* – Generation of automatic logs for errors and notification, logs for event occurrence and financial/non-financial transactions, setting logs or notification priorities with log archival support.
  - *Centralized auditing* allows for maintenance and viewing of all logs on the central server with the ability to run queries on them for accurate reporting.

## Other Interfaced Modules

- AutoTRADE ISLAMIC – Islamic Trade Services System
- ADAMS – Treasury Automation System
- AutoMIS – Management Information Reporting System
- AutoWEB – Internet Banking System
- AutoASSETS – Fixed Assets Management System
- AutoRISK – Credit Risk Rating and Scoring System
- AutoSWIFT – Swift Messaging System
- ATM – Automated Teller Machine
- AutoHRM – Complete Human Resource Management System
- AutoATTENDANCE – Attendance Management System
- Support for Delivery Channels including SMS Banking, POS, IVR and Telephone Banking