Mobile Wallet Platform



Next generation mobile wallet solution



Introduction to mWallet / Mobile Wallet

- Mobile Wallet Account is just like a Bank Account
- User's money lies with the Mobile Wallet Operator instead of Bank
- As secure as a Bank Account
- Legal and regulated by Reserve Bank of the country or some governing authority
- Allows various mobile financial services
- Can also be linked with user's bank and credit card companies
- All the transactions are validated, authenticated and authorized that make it very secure
- All the data resides on server. Communication between client and server is encrypted



Set of solutions, specially designed and developed for telcos, banks, financial institutions, merchants, transport companies, retailers, and distributors.

Mobile Wallet Payment Solutions

More than just a Wallet...

- Core mWallet Platform
- mWallet Enterprise Suite
- Expert Analytics
- Solution for transport companies
- Solution for retail chain stores

offers you excellent opportunity to leverage the evolving technology to make differentiation in the market.

Key Products



Core mWallet Platform

- Offers core fund transfer services.
- Targeted for banks, telcos and merchants
- Highly demanded solution



mWallet Enterprise Suite

- Advance set of solutions to dominate the market
- Offers capability to achieve the full potential of mobile money services
- Offers opportunity to upgrade the system



Expert Analytics

- Business Intelligence system to understand user behavior
- Collect feedback from users
- Representation of data in different type of graphs

Overview of Ecosystem



Mobile Wallet Operator:

A company or an organization running the mobile Wallet in the country



Agents:

Users working on behalf of Mobile Wallet Operator. Direct dealing with consumers/subscribers mainly for Cash Deposit and Withdraw.



Consumers/Subscribers:

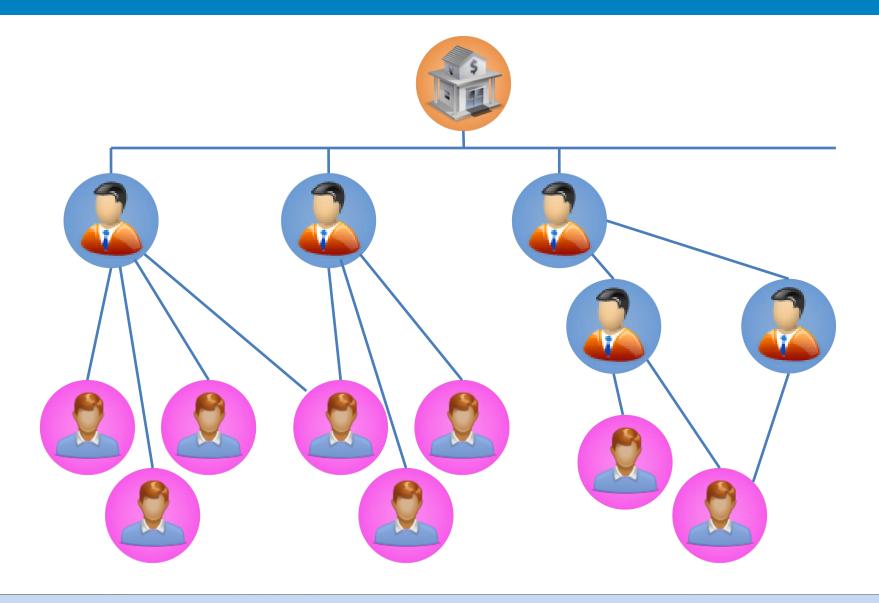
End-users using mobile wallet for their day-to-day banking activities, like fund transfer, bill payment, merchant payment. They first get themselves registered in the system.



Merchants:

Users who sells goods/services and accept payment through mobile wallet from the consumers/subscribers

Overview of the Ecosystem



Mobile Wallet Creation



Mobile Wallet creation for Agent

- Agent submits filled-in Registration Form to the Mobile Wallet Operator to participate in the ecosystem
- Mobile Wallet Operator physically verifies the detail and financial aspects of the Agents
- Mobile Wallet Operator registers the Agent in the System and open his mWallet account
- Agent gets SMS on his mobile no for his mWallet creation and access details
- 5. Agent deposits money with Mobile Wallet Operator and start using it.



Operating the Wallet

- 1. Wallet ID is Agent's mobile no
- Agents dials 3 digits short code, like *111# on his mobile no to access the mWallet features
- 3. Each access is authorized by his Transaction PIN



Mobile Wallet creation for Subscriber

- Subscriber visits authorized Agent's office/Operator's office, submits the filled-in Registration Form and Identity Proof
- Details are verified and mWallet account is opened in the System
- Subscriber gets SMS on his mobile no for his mWallet creation and access details
- 4. Subscriber can deposit money with the Agent to load funds into his mWallet





Operating the Wallet

- Wallet ID is Subscriber's mobile no
- Subscriber dials 3 digits short code, like *111# on his mobile no to access the mWallet features
- 3. Each access is authorized by his Transaction PIN





About Fund Transfer

Mobile Wallet Fund Transfer is a service for mobile phone users to send and receive funds, all you need is mobile number of the subscriber you wish to send funds to. Recipient if is registered subscriber receives the funds instantly, else if unregistered he has to just go to Agent/ATM.

Mobile Wallet Fund Transfer solution has been designed for a secure Mobile Financial Services.

This platform can be integrated into existing mobile network and banking infrastructures, allowing mobile operators/banks and financial institutions to provide capabilities to the same network subscribers and different network subscribers through channel agents.

Fund Transfer: Inside Ecosystem





















Fund Transfer: Outside Ecosystem



Payee will get SMS "You have received and Amount of USD 400 from <subscriber name>, Transaction ID is: YR104523. Please go to your nearest mobile wallet agent and collect the money."

Fund Withdrawal: Agent Network



Registered Subscriber: Fund Withdraw

- 1. Agent dials *111# on his mobile
- 2. Agents chooses Cash Out from the USSD menu
- 3. Agent enters his Transaction PIN
- 4. Agent enters Subscriber's Wallet ID
- Agent enters Amount to be withdrawn
- Subscriber gets One Time Transaction PIN (OTP) on his mobile
- 7. Subscriber enters OTP on Agent's mobile
- 8. Transaction completes
- Agent and Subscriber get SMS for transaction detail.



Non-Registered Subscriber: Fund Withdraw

- 1. Agent dials *111# on his mobile
- Agents chooses
 On-The-Fly Cash Out from the USSD menu
- 3. Agent enters his Transaction PIN
- 4. Agent enters Transaction ID given by non-registered user
- 5. System displays Transaction Amount
- Agent Confirms to pay transaction amount
- 7. Transaction completes
- Agent and user get SMS for transaction detail.

As per the processes setup by the Operator Agent can ask the user to produce his identification proof at the time of collecting cash.

Fund Withdrawal: ATM

Step 1: Mobile Wallet linking – One time process



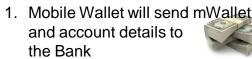
Mobile Wallet Linking

- Subscriber logs on to Mobile Wallet system
- Subscriber links his mWallet with Bank Account



Mobile Wallet online System

Real-time/batch integration





Bank server

Mobile Wallet Server

2. Bank will send status request

Step 2: Withdraw Money



Money withdraw from mWallet

- 1. Subscriber inserts his Bank debit card
- 2. Subscriber enter card PIN
- 3. Subscriber chooses Withdraw
- 4. User gets two options:
 - 1. Bank Account
 - 2. mWallet
- 5. Subscriber chooses mWallet
- 6. Subscriber enters Amount
- 7. Subscriber enters mWallet PIN (optional)
- 8. Subscriber collects cash from the ATM

mWallet Authentication

- Bank sends mWallet ID, Amount and Transaction PIN, ATM machine ID to Mobile Wallet system
- 2. Mobile Wallet validates the user, PIN and funds availability in the user mWallet Account
- Mobile Wallet returns success/fail response back to ATM
- 4. In case of success, Mobile Wallet will credit the amount into Bank Account inside the Mobile Wallet system for settlement purpose



Mobile Wallet Product Portfolio

Different customized & turnkey solution modules that boost operators' revenue with superior system performance...

- Fund Transfer
- NFC Bus/Train Ticketing
- Merchant Payments

- Bill Payments
- Pay Parking

Promotion and Loyalty

- Mobile TopUp
- School Fee

Merchant Deals

- Bank Integration
- Retail Shopping

Subordinate Wallet

- Money Orders
- Internet Data Plan

Survey/Polling

All the Solution modules can also accommodate customization & enhancement for future requirement

Fund Transfer

- Allows a user to transfer eMoney to another mWallet user
- Allows both banked and unbanked consumers to perform various financial activities
- Both the mobile operators and financial institutions have a new transaction-based revenue opportunity.



Bill Payments

- Offers a hassle free and a secure way to make instant payment for utility bills
- Allows uses to register with multiple bill payment companies
- Both registered and non-registered users can pay for utility bills



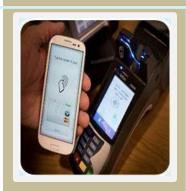
Mobile TopUp

- Offers operators reduced airtime distribution costs
- Offers mobile wallet users a personalized air time top up mechanism
- Allows users to recharge prepaid mobile phone account anytime, anywhere



Merchant Payments

- Provides a real-time acceptance of payments made via mobile phone for both in-store and online
- Open APIs to support integration with the existing POS systems
- Instant transaction rollback feature
- Provides NFC capabilities for fast and secure transactions



Promotion And Loyalty

- Empowers providers to utilize buyer and seller interactions through various promotion and loyalty events
- Allows define targeted promotional campaign
- Offers real-time transaction-based customer analytics to evaluate and track a campaign's effectiveness



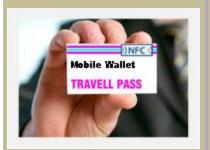
Merchant Deals

- Set up virtual store fronts to promote and launch their own deals.
- Offers merchants a kind of advertising and real-time daily deals service for various products.
- Allows both registered and non-registered users to access deals



NFC Bus / Train Ticketing

- Offers instant digital ticketing service via NFC Card or NFC mobile phone
- Allows both commuters as well as transport authorities to maintain records of digital tickets
- Facilitates instant notification system for ticket purchase through SMS



NFC Retail Shopping

- Offers cashless and quick tr
- Allows authorization to mult and complete control of acc
- Offers convenience to custo simple tap



actions

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NFC Pay Parking

- Provides cashless and mobile form of vehicle parking services
- Allows the parking providers to set time based, entry based and shift based parking rates and renewal reminders
- Reduces a large sum of vehicle parking operating costs
- The system can be accessed by USSD/NFC



Internet Data Plan

- Allows different telcos to setup their data plans in the system and offers a user choose the best plan according to his needs
- Provide a detailed view of multiple plans with pricing, bandwidth, validity, etc.
- User can buy the plan for himself or his friends/relatives



USSD Survey

- Allows merchants to conduct quick, live and in real-time, and session based not transaction based survey and poll
- Enables enhance customer interaction, drive service usage and increase revenue
- Offers merchants to set up USSD surveys via portal, allowing both registered as well anonymous user to participate in the survey
- No requirement of Internet and works on 99% of the worlds mobile phones



Subordinate Wallet

- This unique offering allows merchants or agents to authorize their subordinates to use a single wallet.
- Also allows merchants to manage and monitor subordinate wallet account
- Instant SMS notifications and alerts keep the real owner of the mWallet updated about every transactions made by their subordinates



School Fee

- Offers school and education establishments to provide mobile phone based school fee payment system
- Allows schools to receive payments directly to bank account of the school, reducing cost and time involved in managing cash counter
- Also allows agents or channel users to register with the system



Key Features

- Excellent built-in Core mWallet platform
- Supports Multi-language and multi-currency
- Accessible through different platforms like USSD, NFC, Web, POS machines and Smartphones and as well as features phones
- Secure, scalable and robust platform and guarantees
 99.9% availability
- 24x7x365 days assurance protection against thefts and frauds
- Decision Support System for top management to make better decisions
- Fully customizable and flexible KYC for all types of users
- Highly configurable commission structure for all the services
- Open APIs for Banks, Telcos, Merchants, Utilities Companies for integration



Business Benefits

- Accelerate revenue growth
- Flexible integration
- Cost-effective deployment
- Improved customer engagement
- New revenue opportunity
- Increase in ARPU
- Secure and seamless user experience
- Instant Banking services
- Increased customer base



Platform: Smartphone

Features:

- ✓ Defining exciting platform for mobile wallet
- ✓ Secure, fast and reliable
- √ Independent of any telco operator
- ✓ Option of NFC Payments
- Reduces fraud possibilities through instant SMS notifications
- ✓ Enhances consumers engagement and shopping experience



Platform: NFC

Features:

- √ Fast and easy payment services
- Provides flexibility and movability through contactless mobile payments
- ✓ All the transactions are validated on server
- Reduces fraud possibilities through instant SMS notifications
- ✓ Offers extensive use of various marketing tools



System access through USSD (Unstructured Supplementary Service Data), without Internet Connection

Platform: USSD

Features:

- ✓ Almost 99% of the worlds' phone have this feature in-built
- ✓ No dependency on Internet
- ✓ Secure, fast and reliable
- Reduces fraud possibilities through instant SMS notifications
- ✓ No cost to the end user
- ✓ Easy to use: menu driven flow
- Most popular access medium across the whole Africa



Platform: Web

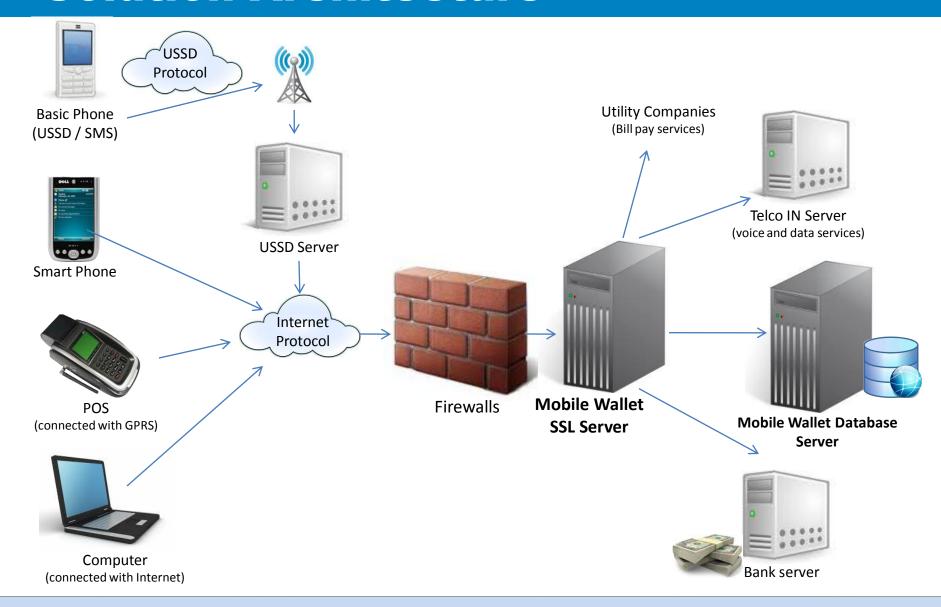
Features:

- √ Independent of any telco operator
- Using existing infrastructure and knowledge
- Empower users to maximize the web payment practice
- ✓ Fast access to detailed and comprehensive information
- Facilitating billers and merchants to manage their accounts online
- Encouraging consumers and merchants for mobile wallet payment adoption
- Covers a big mass of consumers at no extra cost
- ✓ Secure, fast and reliable

ABC B

Welcome to

Solution Architecture



Data Security Measurements

- All the sensitive data is kept encrypted using SHA algorithm and can't be decrypted
- IP address/ IMEI number authentication with the integrated systems and external devices
- Users could be forced to change their password and PIN after every few days
- Regular security audit for the whole system.
- Each access to the system is authorized, authenticated and logged. Every user has role based access to access the system.
- No Data is stored on user's device and use of cookies are completely avoided.
- Utilize anti-virus software and firewalls.
- Use of strongest industry standard SSL certificates.
- Continuous monitoring of logs and mechanism for blocking access to suspected users



GBG ATMSafe Protection Assurance

- Mobile Wallet is the ONLY mobile banking software development company to offering the ATMSafe protection assurance as part of its package.
- ATMSafe is the only fraud protection program available world-wide.
- Provides safety and security for various financial platforms: mobile cash transactions, ATM transactions and remittance transactions.
- ATMSafe's value-added benefit program meets the standards set by regulators on card issuers.
- Mobile Wallet assists its customer to attract new business and promote customer loyalty.



Why Mobile Wallet?

The most important question?

Commitment to Quality:

Follow the industry standards to deliver the best-in-class software solutions that are reliable, scalable, secure, and result-driven

Flexible Pricing Models:

- Revenue sharing model: Just pay us only for setup and integration
- Transaction based model: cost to get started
- Fixed price model: Budget feasibility, competitive rate and uncompromising quality

Low cost of start-up:

- Live demo of the whole system before signing the contract
- Cloud based hosting, so no hardware and software cost
- Open Source Technologies: Platform independent of any OS, any database, any application server

After sales support:

- Experienced, dedicated and trusted support services for smooth operations
- 99.9% uptime guarantee and 24x7 phone and online support
- Ease & Control over cost of custom development



Business Models



All our solutions (Core mWallet Platform, mWallet Enterprise Suite, Xpert Analytics) are **fully customizable and ready to go to market.**

Offers options to either have it **installed in-house or** run as a hosted service

We offer licensing, system integration, hosting, maintenance, and support in three different commercial models to suit your both requirement and budget:

Licensing:

- One time licensing fee
- Annual support & maintenance

SaaS:

- Minimal setup costs
- Fee on each transactions
- Annual support & maintenance

White Label/ Reseller:

- Sign up/Set up fee
- Annual support & maintenance



Interested in deploying a mobile wallet services for your business?

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