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iQuantum

CENTRAL BANKING SOLUTION

Designed for Complexity Reduction

Digital. Real Time Risk Management. Role Aware

CENTRAL BANKS ARE SHACKLED BY COMPLEXITY …

Lack of central bank specific roadmap

Vendors unable to align with SLAs for mission critical support

Uncertain & delayed Go-Lives due to heavy customization

Systems working in silos causing integration and interface issues

Implementation of new policies need heavy customization

Rigid technology and accelerated obsolescence

Multiple Product Engines & Channels; High cost of maintenance & support

Data inaccuracy due to extraction and migration from multiple sources

Inability to meet business requirements due to inflexible business rules

High bandwidth and huge hardware sizing

Lack of centralized view of risk leading to inaccurate, inconsistent reporting

High cost of operations; Huge efforts for reconciliation

New policy implementation takes too much time

Cumbersome process of drawing fragmented data across disparate systems

Duplication of efforts across multiple systems

WHAT IS BOTHERING CENTRAL BANKS?

In a fast paced economy that is impacted by local and global events, Central Banks are facing increasing pressures as custodians of the financial health of their countries. We are seeing a few common challenges that technology needs to resolve, be it much faster implementation of economic and monetary policies, real time monitoring and mitigation of risks, an integrated view of operations or significantly lower processing costs.

Recent episodes of market stress, ongoing changes in the financial markets and the broader financial system have highlighted the need for prudent risk management. Central banks are periodically reviewing collateral policies that have a direct bearing on monetary policy implementation. This has prompted the need for integrated collateral management and liquidity settlement systems with high level of automation and advanced risk management features.

On the other hand, developing countries have started focusing heavily on financial inclusion as connecting the unbanked and under-served population into main stream banking is critical to the growth of any economy. This initiative is driven through various direct benefit schemes to the public, and is becoming an integral part of the Central Bank's agenda in these countries.

From a day-to-day functioning standpoint, any Central Bank's monetary function needs clear objectives, flexible choice of instruments, timely intervention, and liquid and stable markets to achieve its monetary management and macro-economic objectives.

All this calls for state-of-the-art IT infrastructure that provides smooth operations, zero downtimes and cover the following:
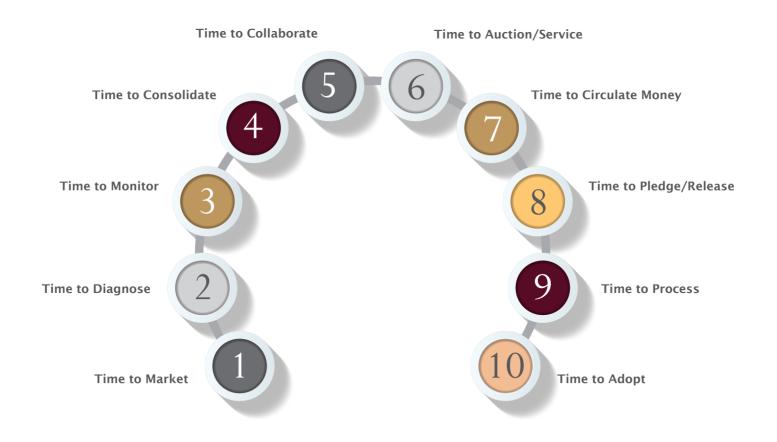
- Accurate and timely financial institution balances, collateral, credit, liquidity and performance tracking through a 360 dashboard view

- Flexibility to adapt to new policies and instruments

- Balance the risk through a well-diversified and controlled collateral portfolio spread across multiple countries

- Provide transparency and accountability for central bank operations, banking clients, financial infrastructure and governments

- Have an integrated view of position and settlement operations with payment systems, CSDs and ICSDs, and foreign central bank correspondents

- On demand and periodic financial statements and reports

- Automated and manual interventions to anticipate and resolve exceptions scenarios

- Integrated risk visualization and analytics

Timely exception and problem identification and actions for immediate intervention are the key to smooth financial operations. Anticipation, prevention, management and resolution of market and financial institution stress conditions helps promote macro-economic stability and out-performance.

Is your Central Banking ecosystem equipped to handle this stress?

HOW iQUANTUM ACCELERATES YOUR CENTRAL BANK'S PROGRESSIVE TRANSFORMATION JOURNEY

THE 10T DIFFERENTIATORS

Time to Collaborate

Time to Auction/Service

Time to Consolidate

Time to Circulate Money

5

6

4

7

Time to Monitor

Time to Pledge/Release

3

8

Time to Diagnose

Time to Process

2

9

Time to Market

1

10

Time to Adopt

THE 10T DESIGN FOR CENTRAL BANKS

Designed for Speed and Ease of Change

1 | **TIME TO MARKET**

RAPID POLICY IMPLEMENTATION

- 2,000+ configurable attributes for business users
- Business users can manage policy implementation by themselves
- Built around "Anything can change anytime" principle

2 | **TIME TO DIAGNOSE**

ZERO RECON AND ONLINE REAL-TIME BALANCE SHEET

- Available at central bank and branch/unit levels
- Seamless navigation from GL to transaction (G2T)
- User configurable financial reporting tool

3 | **TIME TO MONITOR**

REAL-TIME ONE CLICK DASHBOARDS AND RISK ANALYTICS

- 360 degree view
- 15+ dimensions & 7+ levels of drill down
- Risk analytics with 50+ dimensions
- Pattern identification for intraday liquidity
- Proactive alerts and notifications

4 | **TIME TO CONSOLIDATE**

NATIONAL LEVEL BALANCE CONSOLIDATION & TREASURY SINGLE ACCOUNT (TSA)

- Removes money fragmentation
- Seamless merger/de-merger for government entities
- Online balance slicing across multiple dimensions

5 | **TIME TO COLLABORATE**

STATE-OF-THE-ART ONLINE PORTAL

- 50+ business services for banks and government entities
- Advanced service and workflow management including self administration

6 TIME TO AUCTION/SERVICE

AUCTION MANAGEMENT AND DEPOSITORY

- Integrated public debt (Bond/Bills) auction management including underwriting
- Depository with complete life cycle support for securities up to redemption
- Support for legacy physical bonds

7 TIME TO CIRCULATE MONEY

CURRENCY LIFE CYCLE MANAGEMENT

- Includes placing indent for printing, receipt, distribution and destruction
- Automated asset balancing
- Online currency management portal

8 TIME TO PLEDGE/RELEASE

REAL-TIME COLLATERAL AND LIQUIDITY MANAGEMENT

- Support for complex monitory policies and intraday liquidity
- Fully automated pledging/releasing of securities from any depository
- Multiple collateral pools
- 25+ eligibility rules
- 15+ types of haircuts
- 9+ concentration limits

9 TIME TO PROCESS

24X7- RELIABLE AND SECURE OPERATION

- 99.99% uptime
- EOD Time <15 mins
- Certified for very high scalability of 100 million transactions a day with 12,000 users
- Fully compliant with PKI security framework

10 TIME TO ADOPT

IMPLEMENTATION CERTAINTY

- Agile delivery model
- Best-practices from multiple central bank implementations across geographies;
- Dedicated central banking centre of excellence with certified experts
- Reduced learning curve for users

iQuantum Landscape

- Integrated operation management across all the departments with real-time dashboards for faster decisions
- On demand financial statements and reports including the balance sheets
- Integrated risk visualization and monitoring

BANKER TO BANKS

- Accurate and timely financial institution balances & performance tracking through a 360 view dashboard
- Flexibility to implement new monetary policies faster
- Online portal to enable banks to have complete on-line access within the bank

Customer Relationship Management 10

- Grouping & Baskets
- Controls & Validations
- Blacklist & AML
- Comprehensive data set
- Online Portal for govt./FIs

Accounts Management 20

- Products for Banks and Government
- Comprehensive limits and interest rate types

Credit/Market Operations 70

- Comprehensive Limits and Interest Rate Types
- Open Market Operations
- REPO/Reverse REPO
- Short Term, Long Term and Overnight Lending

Account Sweeps 80

- Notional pooling and interest calculation
- Flexible Rules
- Advanced Triggers
- Sweep and Reverse Sweeps

BANKER TO GOVERNMENT

- Treasury Single Account (TSA) implementation
- Govt. payments and receipts management including tax and public funds
- Govt. fund surplus and deficit management

GOVERNMENT DEBT MANAGER

- Seamless auction/underwriting management of bonds/bills
- Comprehensive servicing of bonds/bills
- Management of loans against the public funds

CURRENCY MANAGER

- Seamless life-cycle management of notes/coins
- Integrated management of currency chests/movement across the country

SUPERVISOR / REGULATOR

- Integrated analytics that can provide slice/dice of banking sector
- Mechanism to get pre-active alert on potential catastrophes
- Standardized regulatory reporting framework
- Sophisticated AML to prevent the illegal cross border funding

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Currency and Vault Management 30

- Currency lifecycle Management
- Vault/Chest Management
- Monitoring & Tracking

Depository & Public Debt Management 40

- Auction Management
- Underwriting
- Simulation & Allotment
- DVP-1, 2 & 3 based Settlement
- Comprehensive Security Services

Collateral Management 50

- Advanced Collateral Pool
- Comprehensive Eligibility Factors, Haircuts, and Concentration limits
- Revaluation and Margin Call
- Intraday Liquidity

Government Services 60

- Treasury Single Account
- Surplus/Deficit Management
- Payments/Receipts
- Agency Transactions
- Tax Collection
- Settlement/Reporting

Pricing & Invoicing 90

- Flexible Rules
- Invoicing/Collection
- Flexible Fees Structures

Enterprise General Ledger 100

- Real-time Balance Sheet
- Integrated Budget/FA
- n-Tier Structure
- Financial reporting tool

Treasury/ Risk Management 110

- MM, Equities, Fixed Income
- Derivatives
- Reserves Management
- Limits/Risk Management
- ACU, IMF SDR, Risk analytics

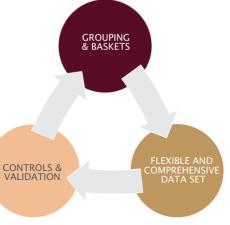### National Payment Systems 120

- Gross/Net Settlements
- Advanced Liquidity Management
- Dynamic Settlement
- Low/High Value Payments

BACK OFFICE

10. CUSTOMER INFORMATION AND RELATIONSHIP MANAGEMENT

Extensive coverage of attributes to support Government, Financial Institutions & Individual Customers

- Dynamic customer group
- Customer constitution
- Customer category
- Customer sub-category
- Customer segment
- 3+ additional groups

GROUPING & BASKETS

FLEXIBLE AND COMPREHENSIVE DATA SET

CONTROLS & VALIDATION

- User configurable documents: grace period, tracking and alerts for pre & post opening
- Black List & De-dup check
- Signatories grouping and limits
- KYC Check
- 4+ eyes workflow and authorization

- 80+ attributes
- User-defined fields for adding additional fields with validation
- 360 degree view with 5+ levels of drill-down
- Configurable customer ID (CIF No.) structure; Number reservation
- Real-time Treasury Single Account with configurable customer and account groups

WOULDN'T IT BE GREAT IF YOU COULD...

Dynamically group the Government customers and accounts into different baskets and get real-time view of balances eg. at Country and Ministry levels

Set dynamic limits and account level priority for posting transactions

Use the legacy CIF number as well as the new number in the system

Have self administration capabilities to configure operational controls, access controls and workflow for commercial banks and Government entities in the online portal

?

20. ACCOUNTS MANAGEMENT

Product configurator with over 200+ user configurable attributes

- Product Group, Products, Account Type and Account Sub-type
- Product level mapping to General Ledger using Access Codes; Flexibility to change the reporting GL in real time
- Special products for govt. operation – Drawing, Personal Ledger and Assignment (with budget tracking)
- Customer constitution level control to various products
- Rules around tenor, amount
- In-built document control

PRODUCT SETUP

DEPOSIT & CURRENT ACCOUNTS

LIMITS

INTEREST RATE SETUP

- Fixed/Floating (indexed)
- Individual or combination of key elements - Product, Account type, Account Sub-type
- Tiered interest slabs
- Debit/Credit balance-based interest rate
- Interest basis 360,365,366, Actual; Rounding basis;
- Holiday treatment
- Group level notional balance-based interest calculation

- Overdraft with customer and account level limits
- Dynamic group level limits with account level transaction posting and priority setting

30. CURRENCY AND VAULT MANAGEMENT

Flexible and user configurable currency management, vault/teller functions

- Printer capacity maintenance
- Re-order level maintenance
- Order placement & tracking
- Receipt and inventory management
- GL level tracking for the complete lifecycle right from order placement
- Printer fee calculation
- Cash distribution route analysis
- Cash distribution to chests / branches
- Demonetization

- Priority-based Asset Balancing to match in Currency in Circulation
- Spoiled / Faded notes exchange and revaluation and destruction
- Cash deposit / withdrawal
- Inter vault / teller transfers
- Cash transactions at the counter
- Integration with automated counting and destruction machines

CURRENCY LIFECYCLE

TRANSACTIONS

MONITORING AND TRACKING

- Configurable dashboards and trends
- Notification and alerts
- MIS
- Portal for Commercial Banks
- Integration with mints/press

40.

DEPOSITORY: ISSUANCE OF TREASURY BILLS & BONDS

Extensive coverage of attributes to support Government, Financial Institutions & Individual Customers

- · Issue Creation
- · Auction Window timings
- · Settlement Accounts
- · New Issuance Re-issuance
- · Competitive and Non-competitive bids
- · Auction price – Price and Yield based
- · Bidding (Regular/Underwriting)
- · Allotment Simulation
- · Devolution
- · Allotment
- · Settlement

AUCTION PROCESS

- · 60+ securities updates
- · Provision to update regularly from Reuters/Bloomberg
- · In-built depository with comprehensive services
- · Commission payment for primary dealers
- · Govt. Charging mechanism
- · Debt managed loan account
- · Clearing and Settlement – DVP-1, DVP-2 and DVP-3

ALLOTMENT

KEY FEATURES

- · Uniform/Discriminatory method
- · Weighted average price/Yield calculation
- · Non-competitive pricing based on weighted average/cut-off
- · Underwriting allotment

WOULDN'T IT BE GREAT IF YOU COULD...

Convert physical bonds into de-materialized form or serve legacy physical bonds with structured workflow

- -

Support both member and their constituent accounts seamlessly with comprehensive segregated accounts

?

50.

ADVANCED COLLATERAL & LIQUIDITY MANAGEMENT

100% STP, active exception control, alerts and tracking mechanism

- · 20+ eligibility conditions
- · Advanced haircut groups and classes with 15+ haircuts
- · 8+ concentration limits with advanced concentration limit groups
- · Comprehensive pricing model including theoretical price calculation and auto escalation models
- · 55+ standard messages with 115+ combinations of messages;
- · Flexible in-built Service Integration Layer with user configurable messages, validation rules and message transformation layer
- · Comprehensive loan products for short-term, long-term, overnight and REPO loans
- · Advanced REPO collateral adjustment with pool for shortage and overage

- · 9 pledging/release modes including TPA, CCBM, Outsourced Accounts, Agency arrangements
- · Provision for manual processing
- · Interfaces with Reuters and Bloomberg for Prices, Rates, Security attributes
- · Automatic revaluation, reconciliation with depositories, margin calls
- · Comprehensive support for credit claims
- · Complete loan life cycle management including accruals, revaluation and settlement

BUSINESS RULES

TRANSACTIONS

MONITORING & CONTROL AND EXCEPTIONS

- · Graphical multi-dimensional dashboard with 8+ levels of drill down feature provides the entire distribution of securities and exposure in various dimension
- · Advanced action driven exception monitoring console
- · 90+ configurable alerts/notifications
- · 60+ dynamic dashboards/reports
- · Support for 50+ types of exceptions

WOULDN'T IT BE GREAT IF YOU COULD...

Provide support for 100% STP based pledging and release with advanced exception monitoring console

- -

Have multiple collateral pools with segregated limits for multiple lending and liquidity facilities

?

60. GOVERNMENT SERVICES AND PAYMENT PROCESSING

Agency banking services with 100% STP, active exception control, alerts and tracking mechanism

- · Automated notional balance calculation and rule-driven decision for investment and loans
- · Ensures minimum balance requirement for government agencies

- · Service codes for collection & payments
- · Agent bank configuration for each agency (govt.)
- · Service mapping to government agencies
- · Transaction feed timing and settlement control

SURPLUS & DEFICIT MANAGEMENT

RULE CONFIGURATION

SETTLEMENT & REPORTING

FILE UPLOAD & MESSAGE PROCESSING

- · Netted settlement & Gross settlement
- · Partial & full processing
- · Government agency automated specific scroll/reporting arrangement
- · Alerts and Notifications

- · Configurable message layout
- · File upload service with day/time window monitoring
- · Exception monitoring console
- · Configurable feature to define file level
- · Supports ISO20022, 15022, proprietary XML, XLS, TXT, CSV
- · Automatic alert on failure Built-in recon engine

70.

CREDIT AND MARKET OPERATIONS MANAGEMENT

Flexible and user configurable loan products

- Fixed/Floating (indexed)
- Individual or combination of key elements - Product, Account type, Account sub-type
- Tiered interest slabs
- Debit/Credit balance-based interest rate
- Interest basis 360,365,366, Actual; Rounding basis; Holiday treatment
- Group level notional balance-based interest calculation

- Product Group, Products, Account Type and Account Sub-Type
- Product level mapping to General Ledger using Access Codes; Flexibility to change the reporting GL in real-time
- Special products. E.g., export credit re-finance
- Customer constitution level control to various products
- Rules around tenor, amount
- In-built document control

INTEREST RATE SETUP

PRODUCT SETUP

LIMITS

MARKET OPERATIONS

- Dynamic group level limits with account level transaction posting priority setting

- Liquidity Adjustment Facility and Margin Standing facility
- LAF/MSF allotments on fixed and variable rates
- Margin setting and collateral calculation
- LAF settlements
- Reversal of second LAF settlements

80.

ACCOUNT SWEEPS

Rule-driven account sweep and reverse sweep

- One-to-Many with apportionment of balances
- Many-to-One

TRIGGER ACCOUNT SETUP

RULE CONFIGURATION

SWEEP

EXECUTION

- Arrangement type level rules with account level override
- Execution frequency & time
- Sweeping based on debit balance and credit balance
- Balance selection choice. E.g., fixed amount, percentage, actual, above minimum balance, threshold, whole balance
- Instant activation/de-activation

- Sweep & Reverse Sweep
- Manual
- Automatic at EOD
- Time bound execution

PROVISION TO SWEEP AND REVERSE SWEEP THE FUND
FROM AGENT BANKS AND RAISE ALERTS ON FAILURE

90.

PRICING AND INVOICING

Simplified pricing and invoicing engine

- Relationship based and client driven fee structure
- Flexibility of defining different fee structure
- User configurable charge codes
- Tier Fee structures
- Value and volume slab
- Different frequency of billing across clients

DIFFERENT FEE STRUCTURES

RULE CONFIGURATION

PRICING & INVOICING

INVOICE PROCESSING & COLLECTION

- Customer wise invoice and collection schedule
- Event and service based invoice and collection frequency
- Pricing group with multiple charge codes
- Segregation of charges for transaction value, volume and discount at the pricing group level
- Discount based on transaction code, volume and billing code
- Each customer can have multiple billing codes

- Customer based invoice settlement configuration
- Interim invoice generation for verification
- Billing code specific invoice generation
- Collection at customer and billing code level
- Direct debit of customer account for collection through various payment modes

WOULDN'T IT BE GREAT IF YOU COULD...

Calculate fees based on dynamic events
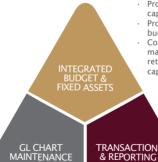
Generate the interim invoice for checking before the final invoice is generated

Club multiple invoices under a collection for customer

?

100.

ENTERPRISE GENERAL LEDGER

Online real-time balance sheet with integrated budget and fixed assets

- Dynamic 360 degree "Tree view" based approval & tracking
- Provision to track budget at multiple GL Head levels with N-tier budget grouping
- Support for zero based, incremental, program based & adhoc budgeting models
- Provision to track all income, expense & capital items
- Provision for uniform & non-uniform budgets
- Complete Fixed Assets life cycle management right from indent to retirement including depreciation/capitalization models, TDS, etc

- Supports n-tier GL structure
- Multi-entity, currency and lingual support
- 30 digits with 3 decimals for balances and upto 8 decimals for exchange rates
- De-coupled GL charts from the transaction layer
- Access codes for flexible maintenance with no impact on accounts and external systems
- Old-To-New (OTN) mapping with legacy GL numbers
- Dynamic posting controls like user/role, currency, amount and accounting units

INTEGRATED BUDGET & FIXED ASSETS

GL CHART MAINTENANCE

TRANSACTION & REPORTING

- Automated provisioning based on age buckets and receivables types
- Supplementary transaction control for last financial year
- Comprehensive provisions for invoice processing, payables and receivables
- Dynamic real-time configuration and generation of balance sheets and financial statements
- Dynamic multi-dimensional dashboards with provision to drill-down from GL to the actual transactions
- Branch/unit level as well as global balance sheets

WOULDN'T IT BE GREAT IF YOU COULD...

Generate the balance sheet and financial statements in real-time without waiting for end of the day

- -

Drill-down from the general ledger to the actual transaction in real-time

?

110. iQUANTUM TREASURY

Effective Capital and Risk Management to identify ideal buy/sell strategies for re-balancing portfolios to achieve better risk-returns

Survive market shocks and increased regulatory scrutiny and Protect revenue margins by assessing impact of volatility and market changes through Sensitivity analysis

Fully integrated front-mid back office STP treasury platform supporting all asset classes with real time rich analytics aiding in quick and pro-active decisions driving higher profitability and managing risk

Enterprise-wide cash flow visibility with accurate forecasting over 30-y period with real-time awareness of Risk exposure and P&L view

Automated reporting of Branch positions with online updates to Traders' positions using real time position management and automated dealing system (ADS)

Sophisticated limits management engine for automated online monitoring of limit breaches and alerts to reduce counterparty credit risks , improve controls resulting in operational cost benefits

Complete processing of Domestic and Foreign Currency Loan Management with STP without any manual intervention

Optimize investments and minimize operational expenses through accurate tracking of short- and long-term funding requirements.
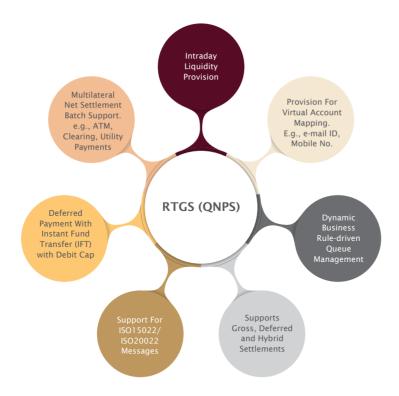
TREASURY

- H PORTFOLIO MANAGEMENT
- A FRONT/MID/BACK OFFICE
- B BRANCH POSITION INTEGRATION
- C RESOURCE MOBILIZATION
- D FUND MANAGEMENT
- E RELIMITS & CONTROL FRAMEWORK
- F RISK MANAGEMENT
- G STRESS TESTING

120. NATIONAL PAYMENT SYSTEM

Integrated new generation national payment system

RTGS (QNPS)

- Intraday Liquidity Provision
- Provision For Virtual Account Mapping. E.g., e-mail ID, Mobile No.
- Dynamic Business Rule-driven Queue Management
- Supports Gross, Deferred and Hybrid Settlements
- Support For ISO15022/ ISO20022 Messages
- Deferred Payment With Instant Fund Transfer (IFT) with Debit Cap
- Multilateral Net Settlement Batch Support. e.g., ATM, Clearing, Utility Payments
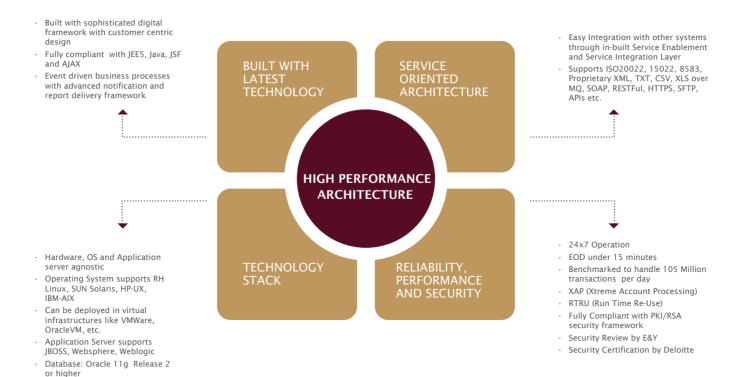
WOULDN'T IT BE GREAT IF YOU COULD...

Have a system that supports multi-currency settlement with advanced rule driven queues for high value and low value payments

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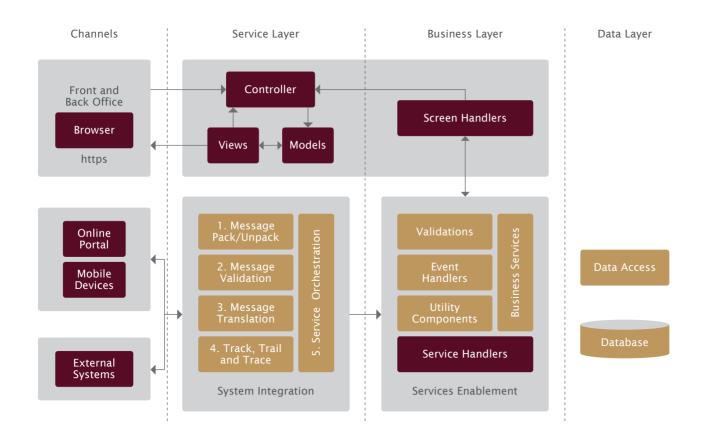
Have an advanced service integration layer with wide range of 3rd party system integration

?

iQUANTUM TECHNOLOGY OVERVIEW

Platform, Operating System and Application Server Agnostic. Superior Scalability and Security.

- Built with sophisticated digital framework with customer centric design
- Fully compliant with JEE5, Java, JSF and AJAX
- Event driven business processes with advanced notification and report delivery framework

- Easy Integration with other systems through in-built Service Enablement and Service Integration Layer
- Supports ISO20022, 15022, 8583, Proprietary XML, TXT, CSV, XLS over MQ, SOAP, RESTFul, HTTPS, SFTP, APIs etc.

BUILT WITH LATEST TECHNOLOGY

SERVICE ORIENTED ARCHITECTURE

HIGH PERFORMANCE ARCHITECTURE

TECHNOLOGY STACK

RELIABILITY, PERFORMANCE AND SECURITY

- Hardware, OS and Application server agnostic
- Operating System supports RH Linux, SUN Solaris, HP-UX, IBM-AIX
- Can be deployed in virtual infrastructures like VMWare, OracleVM, etc.
- Application Server supports JBOSS, Websphere, Weblogic
- Database: Oracle 11g Release 2 or higher

- 24x7 Operation
- EOD under 15 minutes
- Benchmarked to handle 105 Million transactions per day
- XAP (Xtreme Account Processing)
- RTRU (Run Time Re-Use)
- Fully Compliant with PKI/RSA security framework
- Security Review by E&Y
- Security Certification by Deloitte

iQUANTUM TECHNICAL ARCHITECTURE

Channels | Service Layer | Business Layer | Data Layer

Channels
- Front and Back Office
  - Browser
  - https
- Online Portal
- Mobile Devices
- External Systems

Service Layer
- Controller
- Views
- Models
- System Integration
  - 1. Message Pack/Unpack
  - 2. Message Validation
  - 3. Message Translation
  - 4. Track, Trail and Trace
  - 5. Service Orchestration

Business Layer
- Screen Handlers
- Services Enablement
  - Validations
  - Event Handlers
  - Utility Components
  - Business Services
  - Service Handlers

Data Layer
- Data Access
- Database

iQUANTUM SOLUTION
AWARDED FOR EXCELLENCE

THE ASIAN BANKER®
TECHNOLOGY IMPLEMENTATION
AWARDS 2013
Best Central Bank Implementation
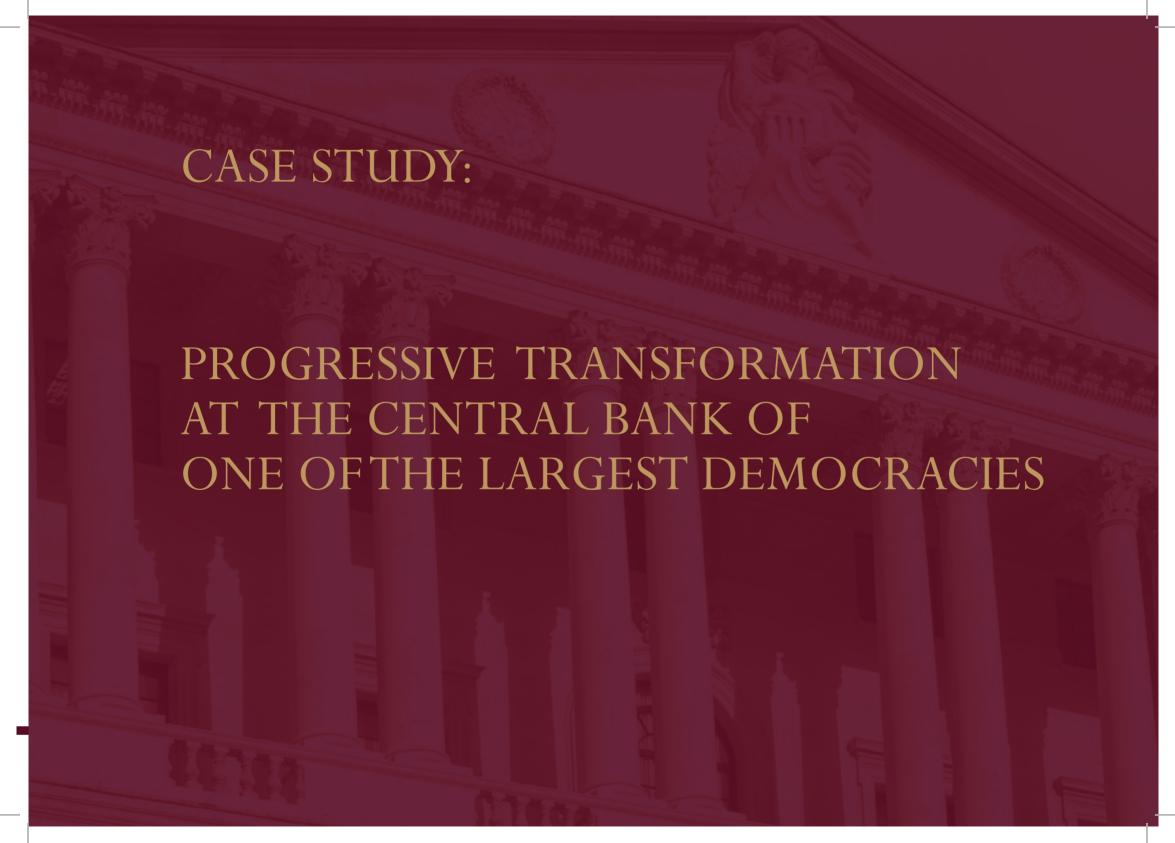
CENTRAL BANKING AWARDS 2015

Technology Provider of the Year

CENTRAL BANKING AWARDS 2016

Payments Provider of the Year

CASE STUDY:

PROGRESSIVE TRANSFORMATION AT THE CENTRAL BANK OF ONE OF THE LARGEST DEMOCRACIES

CLIENT OVERVIEW

1,100
CLEARING HOUSES

4,400
CURENCY CHESTS

14,000+
STAFF
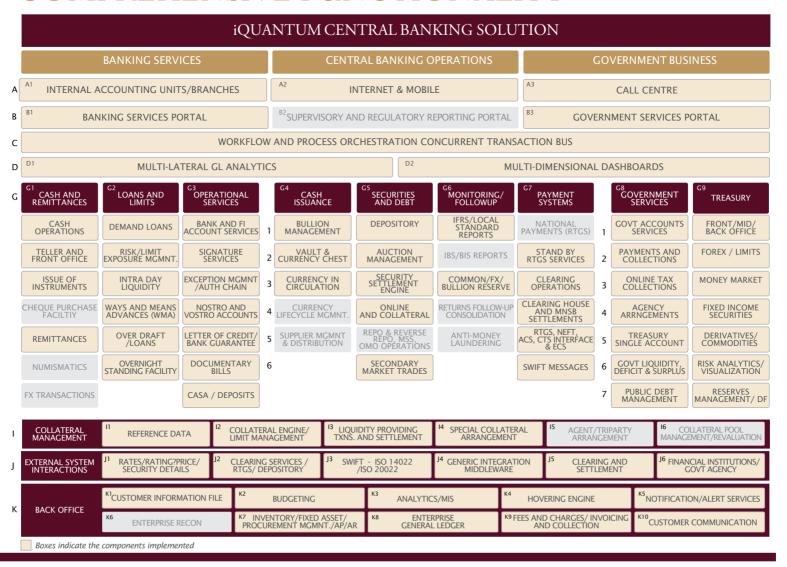
INTELLECT SOLUTION OFFERED

- Enterprise General Ledger
- Integrated Core Banking Solution for Central Banks
- Complete Depository Services
- Comprehensive Government Services
- Public Debt Management Solution
- Currency in Circulation Management
- Wide Range of Market Operations
- National Payment System for Gross and Net Settlements
- Portal for Banks and Government Entities

18 MONTHS

12 MONTHS

6 MONTHS

6 WEEKS

START

- Rollout of Public Debt Management, Market Operations, Depository and other Key Components

- National Rollout of Complete Banking & Government Services

- Pilot Launch – Complete Banking & Government Services

- "Last Mile Delivered first" – Re-engineered the Enterprise GL and implemented in 6 Weeks

- Contract Signed

COMPREHENSIVE FUNCTIONALITY

iQUANTUM CENTRAL BANKING SOLUTION

BANKING SERVICES	CENTRAL BANKING OPERATIONS	GOVERNMENT BUSINESS

	BANKING SERVICES	CENTRAL BANKING OPERATIONS	GOVERNMENT BUSINESS
A	A1 INTERNAL ACCOUNTING UNITS/BRANCHES	A2 INTERNET & MOBILE	A3 CALL CENTRE
B	B1 BANKING SERVICES PORTAL	B2 SUPERVISORY AND REGULATORY REPORTING PORTAL	B3 GOVERNMENT SERVICES PORTAL
C	WORKFLOW AND PROCESS ORCHESTRATION CONCURRENT TRANSACTION BUS		
D	D1 MULTI-LATERAL GL ANALYTICS	D2 MULTI-DIMENSIONAL DASHBOARDS	

G

G1 CASH AND REMITTANCES	G2 LOANS AND LIMITS	G3 OPERATIONAL SERVICES		G4 CASH ISSUANCE	G5 SECURITIES AND DEBT	G6 MONITORING/ FOLLOWUP	G7 PAYMENT SYSTEMS		G8 GOVERNMENT SERVICES	G9 TREASURY
CASH OPERATIONS	DEMAND LOANS	BANK AND FI ACCOUNT SERVICES	1	BULLION MANAGEMENT	DEPOSITORY	IFRS/LOCAL STANDARD REPORTS	NATIONAL PAYMENTS (RTGS)	1	GOVT ACCOUNTS SERVICES	FRONT/MID/ BACK OFFICE
TELLER AND FRONT OFFICE	RISK/LIMIT EXPOSURE MGMNT.	SIGNATURE SERVICES	2	VAULT & CURRENCY CHEST	AUCTION MANAGEMENT	IBS/BIS REPORTS	STAND BY RTGS SERVICES	2	PAYMENTS AND COLLECTIONS	FOREX / LIMITS
ISSUE OF INSTRUMENTS	INTRA DAY LIQUIDITY	EXCEPTION MGMNT /AUTH CHAIN	3	CURRENCY IN CIRCULATION	SECURITY SETTLEMENT ENGINE	COMMON/FX/ BULLION RESERVE	CLEARING OPERATIONS	3	ONLINE TAX COLLECTIONS	MONEY MARKET
CHEQUE PURCHASE FACILTIY	WAYS AND MEANS ADVANCES (WMA)	NOSTRO AND VOSTRO ACCOUNTS	4	CURRENCY LIFECYCLE MGMNT.	ONLINE AND COLLATERAL	RETURNS FOLLOW-UP CONSOLIDATION	CLEARING HOUSE AND MNSB SETTLEMENTS	4	AGENCY ARRNGEMENTS	FIXED INCOME SECURITIES
REMITTANCES	OVER DRAFT /LOANS	LETTER OF CREDIT/ BANK GUARANTEE	5	SUPPLIER MGMNT & DISTRIBUTION	REPO & REVERSE REPO, MSS, OMO OPERATIONS	ANTI-MONEY LAUNDERING	RTGS, NEFT, ACS, CTS INTERFACE & ECS	5	TREASURY SINGLE ACCOUNT	DERIVATIVES/ COMMODITIES
NUMISMATICS	OVERNIGHT STANDING FACILITY	DOCUMENTARY BILLS	6		SECONDARY MARKET TRADES		SWIFT MESSAGES	6	GOVT LIQUIDITY, DEFICIT & SURPLUS	RISK ANALYTICS/ VISUALIZATION
FX TRANSACTIONS		CASA / DEPOSITS						7	PUBLIC DEBT MANAGEMENT	RESERVES MANAGEMENT/ DF

I COLLATERAL MANAGEMENT	I1 REFERENCE DATA	I2 COLLATERAL ENGINE/ LIMIT MANAGEMENT	I3 LIQUIDITY PROVIDING TXNS. AND SETTLEMENT	I4 SPECIAL COLLATERAL ARRANGEMENT	I5 AGENT/TRIPARTY ARRANGEMENT	I6 COLLATERAL POOL MANAGEMENT/REVALUATION

J EXTERNAL SYSTEM INTERACTIONS	J1 RATES/RATING?PRICE/ SECURITY DETAILS	J2 CLEARING SERVICES / RTGS/ DEPOSITORY	J3 SWIFT - ISO 14022 /ISO 20022	J4 GENERIC INTEGRATION MIDDLEWARE	J5 CLEARING AND SETTLEMENT	J6 FINANCIAL INSTITUTIONS/ GOVT AGENCY

K BACK OFFICE	K1 CUSTOMER INFORMATION FILE	K2 BUDGETING	K3 ANALYTICS/MIS	K4 HOVERING ENGINE	K5 NOTIFICATION/ALERT SERVICES
	K6 ENTERPRISE RECON	K7 INVENTORY/FIXED ASSET/ PROCUREMENT MGMNT./AP/AR	K8 ENTERPRISE GENERAL LEDGER	K9 FEES AND CHARGES/ INVOICING AND COLLECTION	K10 CUSTOMER COMMUNICATION

Boxes indicate the components implemented

REALISING iQUANTUM BENEFITS FOR
12 DEPARTMENTS AND 30 GOVT. ENTITIES

BEFORE

18
CORE SERVERS
IN PRIMARY SITE

14
APPLICATIONS

7+
DATABASE

7
VENDORS + IN-HOUSE

12
TECHNOLOGY STACK
(OS/DB/APP)

AFTER

2
CORE SERVERS
IN PRIMARY SITE

1
APPLICATIONS

1
DATABASE

1
VENDORS + IN-HOUSE

4
TECHNOLOGY STACK
(OS/DB/APP)

Benchmarked to Support 100 Million Transactions a Day;
24x7 Mission Critical Support; Zero Recon; Real-time Accounting

DESIGNED FOR COMPLEXITY REDUCTION

1

Public Debt Floatation & Market/Liquidity Operations Settlement

· From 5 systems to 1
· Fully automated
· Over 95% operational risk reduction

2

Entire Intraday Liquidity process

· From 3 systems to 1
· Robust in-built depository

3

Weekly Statement Affairs to Parliament

· Reduction from 3 days to real-time
· 100% elimination of reconciliation efforts

4

Annual Financial Statement

· Reduction from 10 days to online (2 min)
· 99.99% elimination of reconciliation efforts

5

100% improvement in Reconciliation

· Elimination of reconciliation for 30,000+ transactions among 29 regional offices
· Huge reduction in Operation Cost

6

Real-time view of entire government position

· Fully automated real-time view of all the government department balances
· Automatic surplus & deficit management

7

From 6+ complex systems to single iQuantum

· Real-time information availability to the senior management team for effective decision making

DESIGNED FOR CUSTOMER SUCCESS

Suchitra Sukumaran, Deputy General Manager in RBI, says Intellect had installed the system "in record timing", as well as a number of other system. "The entire government accounts in the country, throughthe Bank's own offices and the agency mechanism, are consolidated through this platform".

"

Mr. Pierre Laporte, Governor and Chairman, Central Bank of Seychelles - "Polaris' Intellect Core Banking System (CBS) for Central Banking will usher a new chapter in the transformation journey of our banking, monetary and financial system in the country. Polaris'distinctive edge in the financial technology domain and long standing performance benchmarks led to its selection vis-a-vis other competitors"

"

Mats Wallinder, Dy. Head Cash & Payments Systems Dept., Central Bank of Sweden - "I truly believe, and have noticed, that one major important factor for the success is the way how your team interact together with Central Banks during the design and at the same time spent efforts to reduce the complexity of the product".

"

iQUANTUM CENTRAL BANKING SOLUTION
DESIGNED AT 8012 FINTECH DESIGN CENTER

INTELLECT QUANTUM
CENTRAL BANKING SOLUTION

ENTERPRISE GENERAL LEDGER

BANKING SERVICES

GOVT. SERVICES

CURRENCY MANAGEMENT

COLLATERAL MANAGEMENT & MONETARY POLICIES

DEPOSITORY & PUBLIC DEBT MANAGEMENT

TREASURY & RISK MANAGEMENT

NATIONAL PAYMENT SYSTEMS

Designed for Complexity Reduction

Digital. Real Time Risk Management. Role Aware