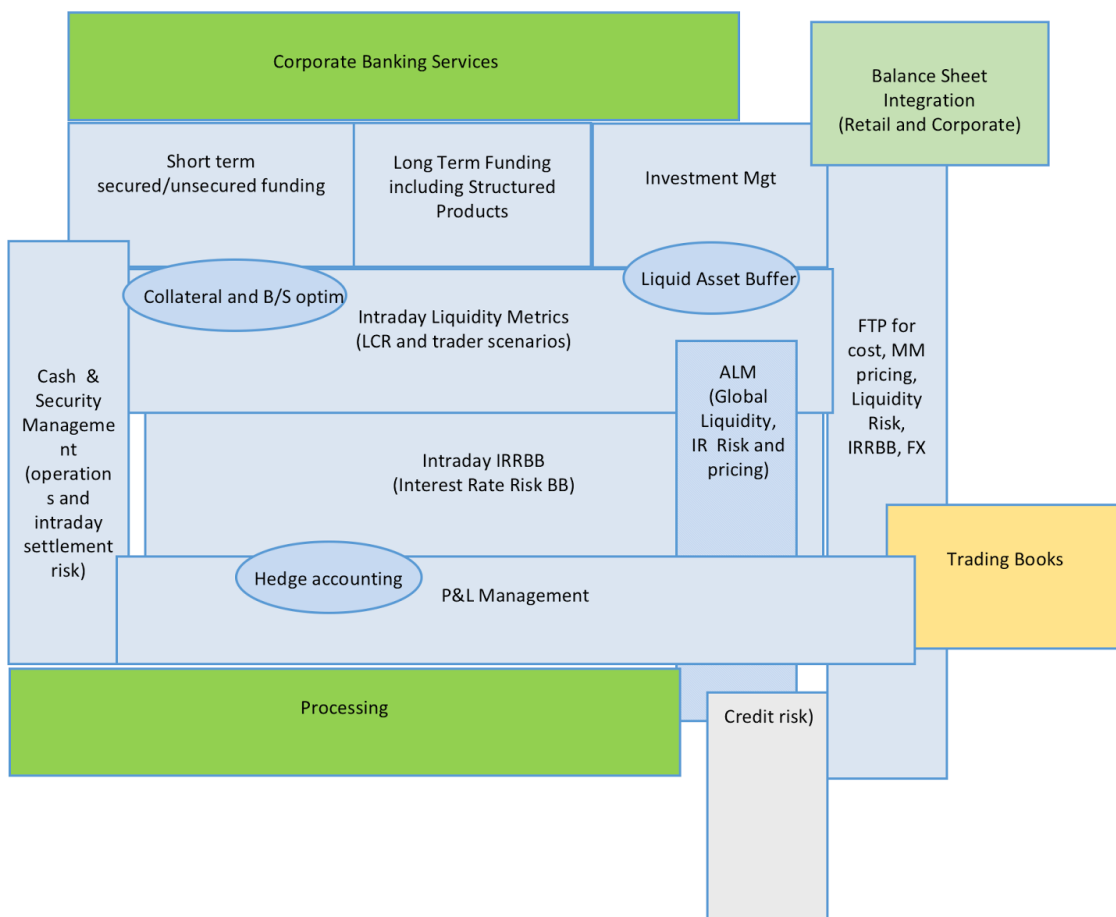


Modern Treasury Functions Topography

What to expect

V2.0

By Gerard Rafie



I will segment the document into Products and Functions.

Products:

FX

- Spot
- Forwards
- Swaps
- NDF
- OTC Vanilla Options
- Barrier / Digital Options
- FX Futures

Interest Rate

- Bonds (Govies, Corporates including callable)
- Bonds (Mortgage backed securities rated AA+)
- IR Futures
- Bond Futures
- Interest Rate Swaps
- Cross Currency Swaps
- Non Deliverable Swaps
- Swaption
- Cap/ Floor

Money Market

- Loans
- Non Deliverable Loans
- Deposits
- Repo
 - Standard
 - Tri-party
 - Buy & Sell Back
 - Pledges
- FRA
- CD
- CP
- T-Bills
- Credit Facilities
- Letter of Credits
- Callable Deposits
- Call accounts
- Guaranties

Fixed Income Issuances

- Fixed coupon bonds
- Floating rate bonds
- Callable/Puttable bonds

Precious Metals

- Spot
- Forward
- lease/depo
- Precious metals lease rate swap
- Futures
- Listed option

Functions:

Trade Capture

- Purpose: Sales, What-if, Internal, ...
- KYC
- Product Check
- Classifications
- Rules
- Enrichments

Hedging

- FX
- Interest Rates

Financing

- Debt
- Loans
- Overnights Roll-Overs [FX/MM]
- Deposits Account

Risk Management

- Cash Ladder with “What-if” scenarios
- Repricing Gap analysis
- Forward Accrual analysis (NII forecast)
- Maturity Gap analysis
- Average Rate analysis
- Average Duration analysis
- Repricing Gap with “What-if” scenario (and bucketed curve risk/Key Rate Duration)
- Liquidity Gap with “What-if” scenario (and bucketed curve risk/Key Rate Duration)
- Tenor basis risk
- Funding basis risk
- Cross-currency basis risk

- Behavioral Scenario Modeling
 - Early termination assumption on loans and deposits
 - Early call assumptions on bonds and loans
 - Rollover assumptions for deposits and issuances
 - Payment delay on loans

- (In case where global liquidity risk proxy required intraday) Non maturing run-off scenarios and trade replication models for IR risk
- Sensitivity analysis
- FX Delta analysis
- Banking Book Risk Management
 - Risk separation (FTP) of banking book trades per currency
 - Integrated balance sheet liquidity and market view through risk tickets modeling
 - Funding cost allocation
 - Liquidity premium calculation (Balance sheet management spread and contingent spread including some liquidity scenarios)
 - Risk breakage cost calculation for lifecycle events
 - IRRBB
- VaR
 - VaR Simulation [Historical, Monte-Carlo and Parametric]
 - VaR attribution
 - Stress Testing /Back Testing

P&L Management

- P&L type (Accrual, MTM)
- P&L decomposition (Realized / Unrealized / Cost of Funding/Cost of Opportunity/Realized FX)
- P&L management (Adjustments / Selloff & Sellback)
- P&L explained
- Return on RWA

Liquidity Management

- Intra-Day
 - Time-critical payments monitoring
 - Throughput analysis
 - Peak liquidity usage
 - Total payments and receipts
 - Intra-day stress analysis
- Short Term
 - Liquid Asset Buffer reporting
 - Incoming and outgoing cash flows
 - Coverage Ratio
 - Significant currency analysis
 - LCR at significant currency level /LCR forecast
- Long Term
 - Long term issuance
 - Capital Management
 - Special Accounts Management
 - Constant and Dynamic balance sheet modeling assumptions

Hedge Accounting

- Fair value, cash flow and translation (net investment) hedging strategies micro and macro/gap based.
- Re-hedging and carrying the original ineffectiveness
- Multi-currency support in case of cross currency hedges and FX exposure hedges
- P/L allocation based on hedging

Cash Management

- Define available inventory for funding
- Coverage ratio modeling

Nostro Management

- Multi Nostro Management
- Loro vs Nostro
- Cash Account Portability
- Monitoring of Nostro Accounts
- T+1 integration and processing of incoming MT940/950
- Cash sweeping between accounts

Collateral Management

- CSA Management
- Margin Call Management
- Optimizations
- Allocations, Collateral Transfer Pricing ex-post, ex-ante
- Interest Management
- Dispute Management

Asset Liability Gaps

- ALM - Balance sheet reporting
- ALM- risk modelling
- ALM- Stress Testing
- Earnings at Risk

Limits Management

- Cash Position Limits
- Securities Position Limits
- Bucketed AL Gap Limits
- Re-pricing Gap Limits
- Stop/loss limits

Cost of Funding Management

- Cash
- Securities
- Fund Transfer Pricing
 - Cost Model
 - P&L model

Trade Life Cycle

- Nettings
- Expiry
- Termination
- Extensions
- Novations
- Exercise
- Knock-In/Knock-Out
- Resets

Processing

- Confirmations
- Settlements
- Payments
- Matching
- Disputes
- Reconciliations
- Corporate Actions
- SWIFT (MT & MX messages)

Accounting

- Definition of chart of accounts
- Definition of accounting events
- Postings
- Closing types - Mth Qtr, Half and Year

Sales

- Interest computation for Client Accounts,
- Withholding tax calculations
- Hard and soft limits for Client Accounts
- Accounts operations: opening, closing, suspension, activation, blocking
- Bank Account Statements
- Monitoring of Client cash positions
- Cash sweeping between accounts
- Management of fees and overdraft charges
- Support third-party and on-behalf-of payment

Liquid Asset Buffer Portfolio Management

- Portfolio yield
- Portfolio duration
- Optimization of yield

Corporate Banking Services

- Entities definition and relationship
- KYC and onboarding
- Treasury and cash management
- Liquidity Management
- Risk management
- Cash & balance sheet forecasting
- Accounts management

- Payment management
- Customized loans and leases
- Real asset analysis, portfolio evaluation, debt and equity structuring
- Trade finance
- Payroll management
- Investment management
- Security underwriting
- Compliance checking
- Hedge Accounting
- Help Desk

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