PMS functionalities for treasury and risk management

- Full support for all risk management processes, from front office to back office
- Support for risk management using flexibly parameterisable risk perspectives
- Consistent and quality-assured data pool for an integrated risk management and measurement
- Integrated limit system that enables monitoring of regulatory and internal risk figures
- Extensive stress tests on various levels (including correlation and macro-economic analyses)
- Coverage of a broad range of relevant risk types including a presentation of the interactions and any possible risk concentrations as well as sensitivities
- Transparent procedures for model validation: Assistance provided by the system to run backtesting analyses on the level of the instruments, portfolios etc.
- Functions relating to the capturing of trades, to the pre-trade limit simulation and monitoring of various exposure representations and financial key figures based on an integrated data supply
- State-of-the-art instrument modelling (extensive coverage of financial and real assets)
- Calculation of the market values (present values) also for products with a complex structure by applying mathematical models such as Hybrid Hull-White Model, Libor-Market Model and approx. 30 more valuation models
- Risk hedge calculations in various forms, proposals for hedge optimisation, portfolio optimisation and hedge effectiveness measurement
- Representation of repurchase (repo) and reverse repo transactions
- Compliance with regulatory requirements (MaRisk, NFSR, LCR, ICAAP, etc.)
- Different analysis levels: Analyses at security level, portfolio level and at different individual aggregation levels / asset allocations for example
- Generation of standardised and/or customised reports and options to create ad hoc reports such as maturity profiles, credit key figures, changes in holdings, present values
- In-depth logging of changes in accordance with auditing standards
- Cash flow simulations including a simulated prolongation of mature positions to determine the interest expense in future years; prolongations can be simulated involving interbank rates (e.g. 6-m-Euribor) or fixed interest rates or a mixture of both methods (e.g. 60 % interbank rate, 40 % fixed rate).
- Plausibility checks for market values, exchange rates, interest rates

- Making sure that the capturing of financial transactions follows the four-eyes principle (distinction between input and confirmation)
- Provision of captured, valuation and analysis data in any desired format
- Position grouping and analyses according to asset class and valuation unit (micro hedges)
- Deterministic cash flow simulations taking limits and warning thresholds into account
- Stress test for cash flow simulations using freely definable interest rate scenarios
- Ad hoc simulations of fictitious position changes
- Estimation of key figures e.g. for the average capital tie-up, residual maturity and original time to maturity as well as for the average interest payment and the mean fixed interest rate
- Collateral Management including the generation of margin calls, dispute assistance, margin and interest rate calculation using thresholds, rounding rules and minimum transfer amounts; possibility to import counterparty portfolios from an Excel or CSV file via interface; market value reconciliations between counterparty portfolio and PMS portfolio via report
- Connection to payment and accounting systems (e.g. SAP) for the purpose of processing automatisation
- Restricted operation competencies (capturing, valuating, analysing) for different departments and users (read, write, administration) in the system owing to the PMS right system
- Provision of an integrated system (PMS)
- Installation of the system as in-house solution or as an SaaS (Software-as-a-Service) or BPO (Business Process Outsourcing) service
- Calculation of the implied interest rate at the transaction start and at the date of each transaction change (such as unscheduled payments)
- Calculation of daily refinancing of all cash flows made at each value date including initial payment, interest rates and amortisations by means of a selected index (e.g. EONIA)
- Treasury result calculation: Profit/loss adjusted by refinance costs/proceeds
- Calculation of the risk-bearing ability
- Presentation of dirty & clean close-out transactions based on notional interest and cost of interest payable
- Margin calculation and comparison with target benchmark
- Future exposure representation
- Value-at-Risk (historical simulation, parametric, Monte Carlo, Long Term, Mixture of Normals)