

Quipu Treasury – Main Features

- **Automated treasury solution**

Quipu Treasury is a reliable multi-user client-server application, specially tailored for financial institutions to support their treasury activities in a highly automated and secure manner. A large variety of short-term deals are covered: FX (buy/sell/swaps), money market (take/place/rollover), cash (buy/sell/deposit/withdraw), transfer between nostros). Extra capabilities can be added in the form of a web application component that covers long-term funding, interbank loans, bonds and T-bill management. Quipu Treasury ensures that institutions comply with regulatory requirements and internal policies regarding the registration of treasury transactions and risk management.

- **Efficiency and performance**

Automated business processes and work-flows, as well as integration with internal and external systems help financial institutions to increase productivity, improve performance and reduce the costs of treasury operations. Real-time data updates and calculations reduce the manual workload and enable treasurers to focus their competency and energy on efficient treasury management. Trades can be imported into Quipu Treasury from external trading platforms (Bloomberg, Reuters, Commander, Spider), the background settlement instructions are forwarded to Quipu Core Banking, and the background bookings are handled by Quipu Accounting. SWIFT confirmation messages are produced along with the deal ticket registration and confirmation. Automatic reconciliations are applied wherever possible.

- **Central rate management**

Quipu Treasury enables financial institutions to obtain data input from different sources. They can connect to their central bank or any other official website and import commercial and/or official exchange rates, as well as interest rates, prices, yields, and ratings. Quipu Treasury serves also as the single point of rate registration for Quipu Core Banking, Quipu Accounting and Quipu Data Warehouse and Analytics. The publication of authorised rates is implemented based on Web services.

- **Liquidity monitoring**

Quipu Treasury offers financial institutions the right tool for efficiently managing cash and non-cash liquidity in real time, as well as for long-term planning of money market instruments, multi-currency operations and nostro accounts. Real-time reports in which different types of cash flows are aggregated and grouped per

time bucket, trading category, source and/or currency serve as a valuable aid to accurate liquidity forecasting and gap analysis. The real-time cash monitoring features are based on Web services and can also be applied in decentralised environments.

- **Open currency position management**

Quipu Treasury provides detailed views for monitoring trading and balance positions, including open currency positions, as well as total inter-bank bought or sold currency volumes, average exchange rates, etc. All transactions relevant for the management of the open currency position – customer business, administrative modules, interbank treasury business – can be monitored in real time.

- **Counterparty exposure control**

Quipu Treasury enables financial institutions to control and manage counterparty limits and exposures efficiently. Several counterparty exposure reports allow analysis from different viewpoints and at different aggregation levels. Daily exposure calculations can be analysed for any back value date.

- **Regulatory compliance support**

The integration between Quipu Data Warehouse and Analytics and Quipu Treasury enables financial institutions to strictly monitor compliance with the local regulatory reporting requirements, especially with regard to supervising large exposures. Flexible automated booking of treasury transactions improves the efficiency and quality of financial reporting, and allows adaptations to different regulatory environments.

- **Tailored user profile**

Quipu Treasury ensures the creation of separate user profiles for employees with front-office responsibilities and for those with back-office responsibilities, according to the tasks allocated to them, and follows a strict “segregation of functions” principle. In addition, a risk manager role is available and used for the definition of general settings and parameters. Thanks to the modular integration, payment and accounting departments also work with Quipu Treasury, making it possible to achieve almost completely paperless workflows.

- **Complete audit trails**

Quipu Treasury maintains a complete audit trail for each deal throughout its life cycle, which is important not only for internal analysis and process optimisation, but also for compliance with treasury regulations. Signature authorisations provided by a second front office staff member and confirmations (or rejections) by back office are visible in electronic form and printed in the deal tickets. Any kind of attachments, including

email scans, contracts in Microsoft Word and/or PDF, calculations in Microsoft Excel, audio files from recorded phone calls, video files, images and screenshots in different formats, etc., can be added to single deal tickets.

- **Analytical support**

Complex data selectors are available throughout Quipu Treasury, and serve to filter information which might be important for further analysis. Treasurers can easily generate lists with particular types and quantities of information and use them as support for analysis, strategy definition and decision-making.

- **Daily operational reporting**

Quipu Treasury includes a robust reporting infrastructure which enables treasurers to extract current or historical data regarding cash flows, exposure limits, balance and trading positions, nostro accounts, accounting balances, etc. Reports are designed according to the needs of the treasurer's daily work. Generated reports are stored in a container during the work session, labelled with a time-stamp. With the help of the inbuilt reporting features, data output can be produced in the form of on-screen reports, CSV (Excel, Open Office), text, html, or published via Quipu Data Warehouse and Analytics.

- **Simple and straightforward processing**

With Quipu Treasury, registering and processing transactions and operations is very simple. Registration, confirmation, settlement, and reconciliation with accounting are straightforward processes. Currently, Quipu Treasury supports seven different day count conventions, and for loans, it supports irregular payment plans, variable interest rates, and multiple disbursements. Interest calculations for money market and loan deals can be registered using adjusted or unadjusted interest methodologies.

- **Easy navigation**

access correlated functionalities with a single click.

- **Security Features**

The high level of security provided by Quipu Treasury is ensured through the use of passwords and database access encryption. Access rights are linked to a combination of user and workstation/terminal, and can be additionally restricted to specific weekdays and working hours. A re-login is enforced for notebooks closed without logging out correctly. The Web services used for communication between different modules are TLS 1.2 encrypted and always kept up to date with the latest TLS updates.

- **Internationalisation and support**

The high level of parameterisation, making it easier to ensure that the same versions are installed at different banks across an international group, also means that highly efficient support can be provided by international teams located in different regions. Technically, the internationalisation aspect is covered via use of Unicode at the database level. Besides the currently supported English and Spanish versions (Russian and French versions are in preparation), additional languages can be supported on demand in a straightforward manner. All documentation is available in different print formats, and screencasts are now offered as additional user support option.