

Automate and Optimize Service Calls Across the Entire Cash Cycle



Planner

Planner, part of the Vynamic™ Cash Management suite, plans and optimizes all service call-outs and order quantities in the cash point network fully automatically. Optimization of cash orders and deliveries is based on advanced algorithms, and is the foundation for central or decentralized order planning and for the execution of orders by cash-in-transit (CIT) companies or bank branches/retail stores. The main features of Planner are set out below.

OVERVIEW

- Fully automatic forecasting of cash transactions and planning of stocks
- Maximum planning quality and reliability
- Optimal balance between competing goals: cash levels versus services
- Optimization of branch holdings

BENEFITS

- Reduced cash stocks, maximum service intervals, decreased cash returns
- Maximum savings in terms of total cost (CIT service and interest costs)
- Reduction of emergency transports to a minimum
- Much less effort to manage cash stocks
- Improved service levels and guaranteed availability of configured denominations and currencies

Vynamic™ Cash Management/Planner

FORECASTING AND OPTIMIZATION

- Advanced, automatic time series forecasts are used
- Individual forecasts are generated for each cash point, its banknote and coin denominations and directions of flow (withdrawals/deposits)
- Patented mathematic optimization technology is used to plan orders for each cash point and configured denomination
- Device-specific effects, such as substitution and overflow of drum modules, are mapped
- The necessary safety stocks are calculated automatically, and comprehensive support is provided for the requirements of modern cash recyclers

FULLY AUTOMATIC PLANNING

On the basis of the stock data delivered by LiveInventories, Planner automatically forecasts cash transactions for Automated Teller Machines, Cash Recyclers, main teller positions and Automated Teller Safes using specific algorithms:

- Seasonal and special effects are automatically taken into account for each cash point, denomination, currency and calendar day
- Complex algorithms for mixes of banknotes, including substitution effects, are mapped for data analysis and simulation

Service planning, again automatic, is based on automatically generated intraday profiles, automatically determined service windows and the transaction forecast:

- This is done for each individual cash point and denomination
- Individual service days, lead times and various cost models are taken into account
- Intraday planning is down to the hour to ensure optimal timing of service call-outs, taking backflow forecasts into account
- Certain dispensing algorithms as well as overflow effects for ATMs and cash recyclers are modeled automatically in the course of simulation
- Rush orders are generated automatically if bottlenecks are imminent

INTELLIGENT ORDER MANAGEMENT

The forecast and planning results automatically generated by the system are the foundation for automatic order generation:

- Suggestions for replenishment or delivery orders are automatically created so that they can be released efficiently
- Additional cash requirements can be entered in advance, and these are then included in dynamic planning and thus in order generation
- Backup replenishment lists for the following days are sent automatically every day to ensure maximum availability of cash

EXTENDED CASH POINT MONITORING

Planner comes with extended cash point monitoring features. Alongside detailed information on the respective cash point and existing orders, inventory display and range chart indicators help the cash management team to keep track of matters.

Additionally, Planner supports intraday cash point monitoring showing automatic warnings when necessary, updating computations several times per day on the basis of new inventory data. The warnings shown in the course of stock monitoring can be automatically e-mailed if the system detects, for example, an unusual volume of transactions, capacity violations, the risk of cash stockouts or insurance limit overruns.

INTEGRATED MULTICURRENCY AND COIN SUPPORT

Support for multiple currencies is integrated in Planner, enabling banks, CIT companies and retailers to plan and optimize their cash requirements in different currencies in parallel. This is particularly useful for bank branches and retail stores which are located near a national border with their need for multiple currencies.

Planner also comes with integrated support for coins, providing complete support for coin order processes in terms of forecasting, planning and order processing.

BRANCH OPTIMIZATION: BRANCH, TELLER AND VAULT INVENTORIES

Planner also simplifies the daily cash stock planning of branch inventories. For each individual denomination, it calculates the replenishment or return amount, allowing for any manually entered special orders that have been placed for individual customers. Forecasting and planning are respectively based on denomination turnover forecasts and dedicated planning algorithms for branches. It is possible to consider all cash points of a branch simultaneously and to map recycling processes.

Process workflows for central cash management in Planner:

- Basis can model several teller positions at a counter cash point
- Planner uses current branch holdings and advanced mathematical algorithms to forecast and plan replenishments and return shipments for the modeled cash points
- Central cash managers can set disposition locks to prevent branches from placing further orders in the system after a certain time of day, allowing central disposition and central bank ordering to start

FORECASTING AND OPTIMIZATION

- Basis
- LiveInventories

DIEBOLD NIXDORF VYNAMIC SOFTWARE

DN Vynamic is a powerful software portfolio that enables financial institutions to eliminate friction to transform the user experience and the operation. Flexible and adaptable, DN Vynamic is built to align with how financial institutions operate and are bundled to support the modern banking environment including channels, payments, engagement and operations.

Vynamic Cash Management, also known as CCO - Cash Cycle Optimizer, is offered in partnership with planfocus software gmbh.