



Calculation Engine

TN Planning's ability to further process data sets it apart from planning systems that are limited primarily to the collection of plan data. TN Planning's unique Calculation Engine also masters the most challenging calculation operations, such as the ones required for currency simulations or internal cost allocation.

Here's a selection of business processes that are supported by the TN Planning Calculation Engine:

Calculation methods

- **Forecasting:** Automatic creation of trend calculations and forecasts using statistical models.
- **Currency conversion:** Conversion of locally-recorded currencies into group currency with different rate types depending on the business context (e.g. average rate for P&L items, period-end exchange rate for balance sheet items) on through to the calculation of the currency effect in the course of a plan-actual variance analysis.
- **Currency simulation:** Calculation of alternative scenarios for what-if analysis with different exchange rate trends.
- **Internal cost allocation:** Solution of linear equation systems, such as those required for the calculation of internal costs and expenditures.
- **Consolidation:** Execution of consolidation calculations such as the elimination of intercompany sales in the course of planning on through to complete statutory consolidation (see Fact Sheet Legal Consolidation).

Planning processes

- **Rule-based allocation:** Allocation of aggregated values using user-defined reference values (e.g. seasonal factors, previous year's values, forecast) with substitution arrangement in case of missing reference values.
- **Planning in the top-down/bottom-up process:** Complex multi-dimensional allocation of top-down goal specifications and aggregations of the bottom-up implementation planning including automatic analysis and optional rule-based settlement.
- **Zero based budgeting:** Use of driver-based calculation models for the simulation of the effects of possible circumstantial changes on the change in costs and sales.

Supporting processes

- **Automation:** Repeating planning tasks such as the calculation of write-offs can be automated.
- **Dynamic reorganization:** System-supported recalculation of data after structural changes (e.g. in the organization). Old and new structures can also be depicted in parallel.