Best Practice Accelerator Integrated Financial Planning

Technical documentation

19.01.2023 | Jedox

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1. Introduction

This document describes the solution "Accelerator IFP (Integrated financial planning)". The Accelerator is a solution with predefined content as a model to plan financial data easily. Basis is the model Finance Suite: integrated Financial Planning from which we are initially using the Profit and Loss, Balance Sheet and Cash Flow cubes. It can be used as a starting point in projects to have a framework of already existing content like start page, upload functionality for dimension and cube data, planning and analysis reports, user rights, etc. This provides users the possibility of unified planning, seamless data integration and simplified planning, reporting, and data analysis.

The document gives an overview of the Jedox application, describing the installation and configuration of the Accelerator, reports, database, and integrator projects. In addition, it gives implementation hints on Jedox functioning, helping to understand, for example, how a report was built (pointing to which cube or dimension and attribute).

1.1 Document key – Read me

This document includes some tricks to provide a faster understanding of the solution:

1. This document is like a library. You do not need to start at the beginning and work your way through to the end. Feel free to do so or scan the table of contents and read what interests you most.

2. For each chapter (and report) a target group is defined. Depending on your knowledge follow the chapters to read what is relevant to you and feel free to skip those which are irrelevant.
   There are 3 different types specified:
   - End-user – A professional expert on customer side who uses the Jedox software. This person plans data. Might not have been part of the implementation process of Jedox.
   - Power user – A user of the Jedox software on customer side whose skills and expertise are (will be) more advanced than most other users, especially a person who is assigned additional administrative rights and responsibilities for Jedox, e.g., definition of dimension structures, defining source systems, load of data, etc. Usually, attendee in Kick Off workshop.
   - Implementation expert – A Jedox expert with knowledge about Data Modelling, Integrator, Reporting, Business Logics, etc.

3. Some implementation tips are giving on how a report or logic is built in the backend/background (Database, Integrator). Those tips are marked with "Implementation hint:" and are only relevant for implementation experts and power users which are interested in or would like to adjust the application.

1.2 Basic information about Jedox Suite

In this chapter the current Jedox version, access to information regarding Jedox functionality and the system requirements of the Jedox Suite are briefly described. The Accelerator can be used with versions beginning from Jedox Suite 2022.2.
The target group of the following chapters are power users and interested end users.

Information, manuals, and tips & tricks can be found on the Jedox "Knowledge Base". The Knowledge Base is a comprehensive source of knowledge for all Jedox topics.
Link to the Ideas Portal, Support Manual, Jedox downloads (older and current Jedox versions) can be found within the Customer Portal.

Knowledgebase:

http://knowledgebase.jedox.com/

Customer Portal:

https://my.jedox.com/

Jedox and therefore the Accelerator can be used on different browsers. A full list is found here:
Technical specifications

1.3 Architecture of Jedox components

The target group of this chapter are power users and interested end users.
Jedox optimizes planning, analytics, dashboards, and reporting with one unified solution for Business Intelligence (BI) and Corporate Performance Management (CPM). The solution combines the highly scalable Jedox analytics engine with a consistent experience across all devices that is designed to empower business users.

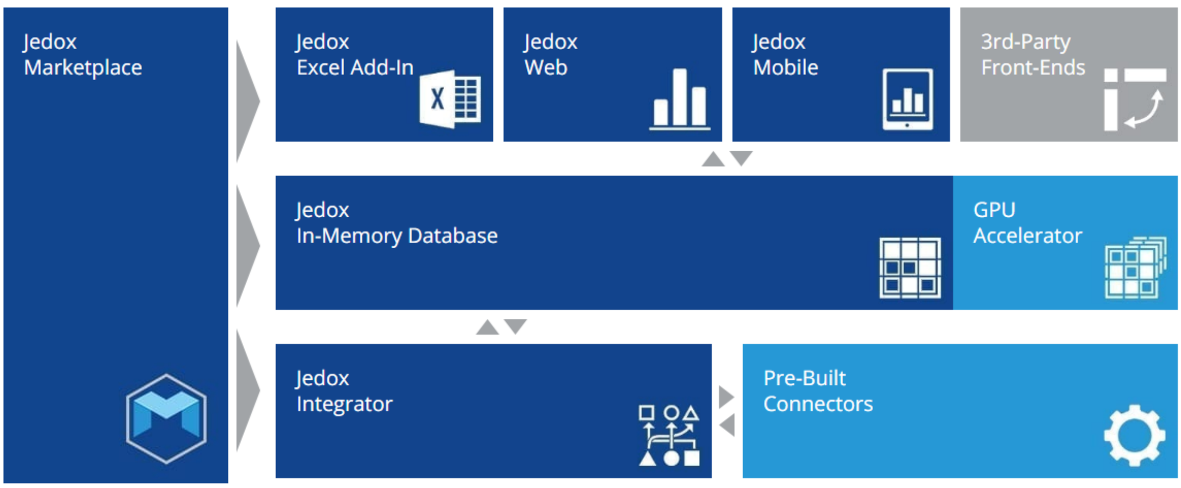


Figure 1: Jedox Architecture

The components used for the Jedox application are briefly described below.

Jedox In-Memory Server (OLAP – Online Analytical Processing)
The Jedox In-Memory server provides you with a highly scalable analytical appliance that delivers real-time performance over volatile enterprise data. The engine enables complex planning and forecasting with in-memory rules modelling, predictive analytics with powerful statistical heuristics and instant consolidations and reporting

over large multi-dimensional datasets. All changes are logged for audit and compliance. The data stored in the cubes are displayed using PALO.DATA formulas within the web reports.

Jedox Web

Jedox Web connects all Jedox components in a uniform web interface. Depending on the user's authorization, all functions of the Jedox Suite are available. This allows web-based reports to be generated centrally, via a browser, the OLAP database to be modeled and ETL processes to be monitored. In addition, end users can call up analyzer reports.

Jedox Integrator (ETL)

Jedox Integrator is used to create, modify, monitor, and execute all data integration projects. Various data sources can be integrated into the Jedox database, by building the connections to various data sources, in order to extract, transform and import master data and transaction data.

Jedox Marketplace

Jedox Marketplace is a web-based showroom featuring integrated planning and enterprise performance management applications for finance, sales, human resources, and other departments built by different Jedox Experts from Jedox Partners to the software vendor. Jedox Marketplace gives access to all those applications which incorporate best practices from around the world. The admin tool does not use the Jedox Marketplace as it is a customized built-in application.

Jedox Excel Add-in

Jedox Excel Add-in gives a user Business Intelligence and Enterprise Performance Management capabilities from flexible data modeling to ad hoc analytics, collaborative planning right in Excel. The admin tool does not use the Jedox Excel Add-in.

Jedox Mobile

Jedox Mobile empowers users to check real-time business intelligence dashboards, view canned reports, analyze data ad hoc, or submit planning figures with ease and security by mobile devices. The admin tool does not use the Jedox Mobile.

1.4 Description of Jedox Web components

The target group of the following chapter are power users and interested experts.
The web interface of the Jedox Suite, in which the application is developed, is shown in the following image.

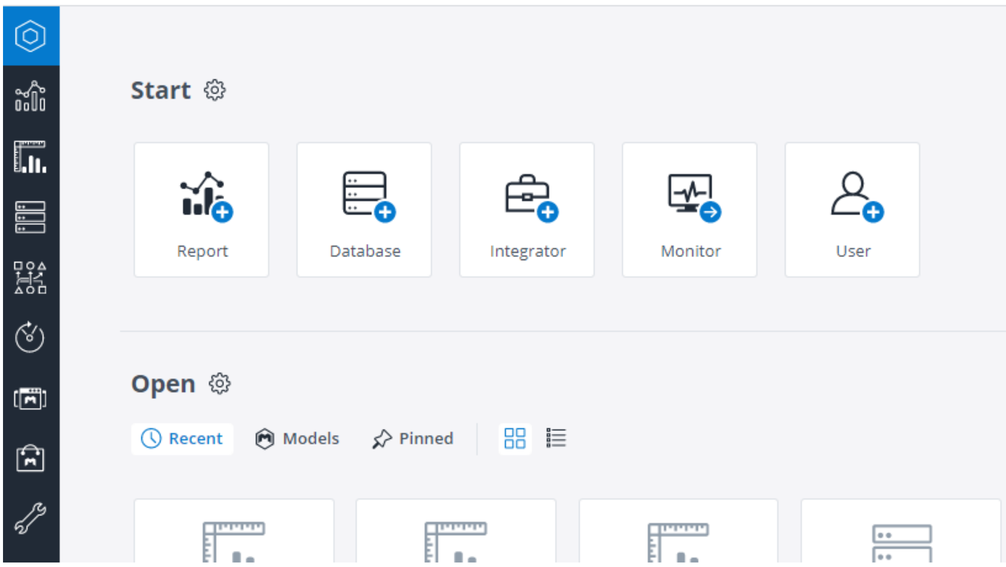


Figure 2: Overview Jedox Web

Jedox Web interface (Jedox Suite) consists of different components, which are briefly described below:

Homepage
The homepage gives users access with one click to the most used features, like creating a new report, database, Integrator project, or new user. It shows the recent opened reports, which can be accessed by one click and provides some useful links to the Knowledge Base, trainings, what's new, etc.

Reports
The Jedox Reports publish all reports created in Report Designer in Jedox Web and provide a navigation interface. Business users usually have access only to this component, in which they can navigate between reports for planning, reporting and analyzing data.

Designer
The Report Designer allows business users to manage and organize spreadsheets and other related content in a secure, user-based administrative environment. Jedox Designer provides individual data storage areas for each Jedox application and user, allowing the source files and related information, such as PDF, text, or images, to be integrated quickly and easily into a Jedox application.

Modeler
The Jedox Modeler allows the creation and modification of Jedox In-Memory / OLAP databases. The modeling environment makes it possible to create dimensions, elements, and store and combine them into Jedox OLAP data cubes. Alternatively, it is also possible to create dimensions and cubes using the Integrator.

Integrator
Jedox Integrator is used to create, modify, monitor and execute all data integration projects. Various data sources can be integrated into the Jedox database, by building the connections to various data sources, in order to extract, transform and import master data and transaction data.

Scheduler
In the Jedox Scheduler, work orders can be created and administrated for the execution of ETL processes. It means Integrator jobs will be scheduled to be executed at a specific time, like nightly jobs.

My Models
The "My Models" panel provides an overview of all models that were created, or installed, on the Jedox Web server. Models can be installed through the Marketplace. In a new installation, the "My Models" panel will most likely be empty. When models are installed, they are listed in a hierarchical structure on the left side, with a detailed list in the main window. The user can navigate to the reports of a specific model from "My Models" by clicking the arrow icon. Reports are also accessible by navigating directly to the Reports section of Jedox Web. The list in "My Models" shows if an update is available in the Marketplace for one or more of the installed models.

Marketplace
The "Marketplace" panel shows all published models. The content here comes from a centralized server which is accessed over the Internet. If the Jedox server has no access to the Internet, the Marketplace may be shown on the client's web browser, but the actual installation of models will not be possible.

Administration
In administration, different configurations can be set, for example global connections, user rights and licenses. All users and groups that can access individual components and databases within the Jedox Suite are created and maintained there.

The primarily used components are implementation of a new project or designer for development of web reports, as well as for the Modeler and Integrator for creating and importing master data and transaction data.

1.5 User rights in Jedox

This chapter describes user, user group and role rights in Jedox.
The target group of the following chapter are power users.

User
A user is a user who is assigned to one or more user group(s). Multiple users can be in one user group. One user can have multiple user groups. In this case the user gets the rights of the most powerful user group.

User group
Application rights are set by the user group. Rights can be set to only have access to specific databases, elements, report and folder groups, etc. If all users have different access rights one user group must be created per user. A user group is assigned to a role, that is, a user group can have access only to one database or a user group sees in one dimension only the relevant regions which they should see.

Role
System relevant accesses are set by role. The role gives access to sections like Designer (for editing reports); see the Modeler and the Administration section.
The existing roles can be used in most projects. For example, the role Viewer is for business users which should only see reports; therefore, they get no access to the Designer, Modeler or Administration.

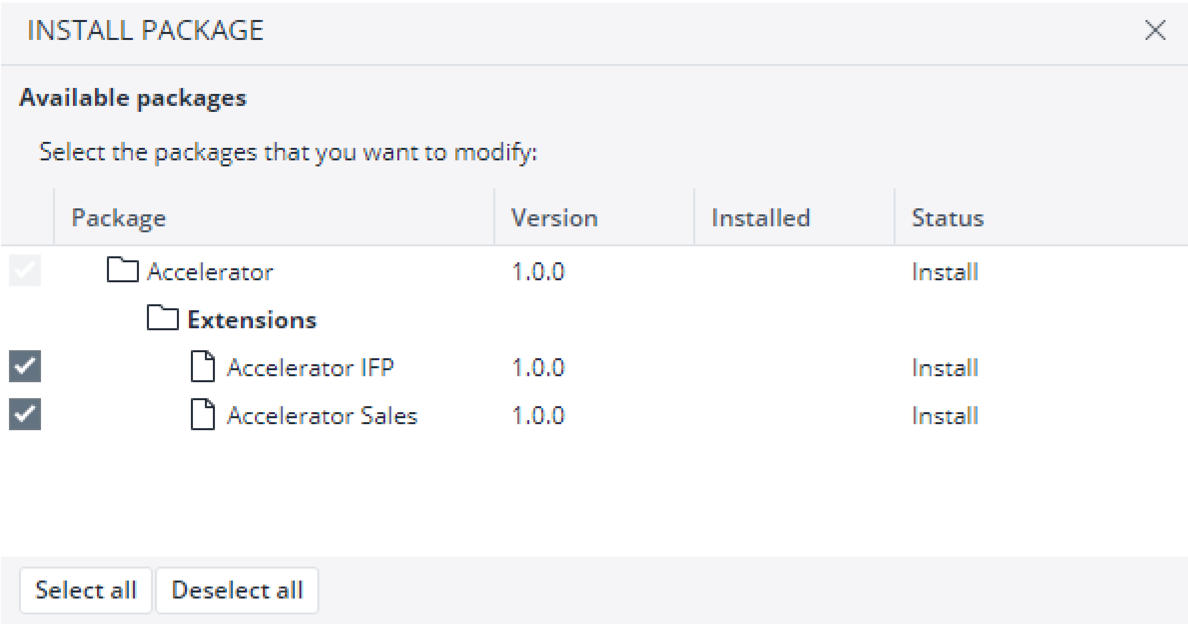
Find more information about user, user groups and roles in the Knowledge Base.
https://knowledgebase.jedox.com/knowledgebase/administration-user-rights/

2. Installation & configuration

This chapter describes how to install and configure the Accelerator model. That means, what are the first tasks to do after the installation?
The target group of the following chapters are implementation experts and interested power users.

2.1 Installation

To install the Integrated Financial Planning Extension, you simply need to tick it during the Installation process of the Accelerator Foundation.



2.2 Configuration

The Accelerator has multiple features included and with the configuration you can choose one of the solutions. Therefore, unnecessary features can be activate/deactivated. This chapter describes the features and how to set them.
The target group of the following chapters are implementation experts and interested power users.

Quick start guide:
The following steps describe how to configure the environment:

- ✓ Check planning/calculation rules for cube Profit and Loss and Balance sheet. In the Integrated Financial Planning model rules are usually defined in attributes of the different account dimensions and populated via rule templates, see chapter 5.
- ✓ Choose way how you would like to import exchange rates
- ✓ Do your Cash Flow mapping
- ✓ Customize the planning and analysis reports to the customer's account settings

The next chapters describe the adjustments more in detail.

3. Web reports

This chapter gives an overview of the reports and describes the process of setting up the environment, like uploading dimensions, uploading data, etc.
The target group of the following chapters are implementation experts, power users and interested end users.

Implementation hint: when adjusting reports check parameters sheet in the report(s). More descriptions and explanations of named ranges, etc. can be found there.

3.1 Report overview

The Accelerator provides users with the possibility to easily plan their financial figures. It is built in 4 sections:
DATA PREPARATION: reports to prepare the planning process like upload dimension structures, set planning version and year (which are open for data entry), upload actuals, etc.
PLANNING: planning reports.
REPORTING: reports to view data only (without data entry).
ADMINISTRATION: reports for power users, like access rights, report settings (publish/unpublish) reports, copy data from one version to another, etc.

3.2 Process – setup and plan

There are different ways to set up the environment after installation and before planning:

1. Open report "**Setup dimension structure**" to upload elements, hierarchies, and attributes from either a file or source system. If a source system should be used, an Integrator job can be created, and the job name can be entered in "_dimension control" dimension in the "ETLProjectFromSource" and "ETLJobFromSource" attributes.
2. Open report "**Setup plan version and year**": open and close data entry for the specific month and version combination.
3. Open report "**Upload data**" to upload available actuals, budgets or forecast data, etc. into the cubes.
4. Open report "**PnL/BS/Cost Center planning**" to enter budget and forecast data. Only cells specified in report Setup plan version and year are open for data entry.
5. To **view planned data and actuals** open report in section "Reporting".

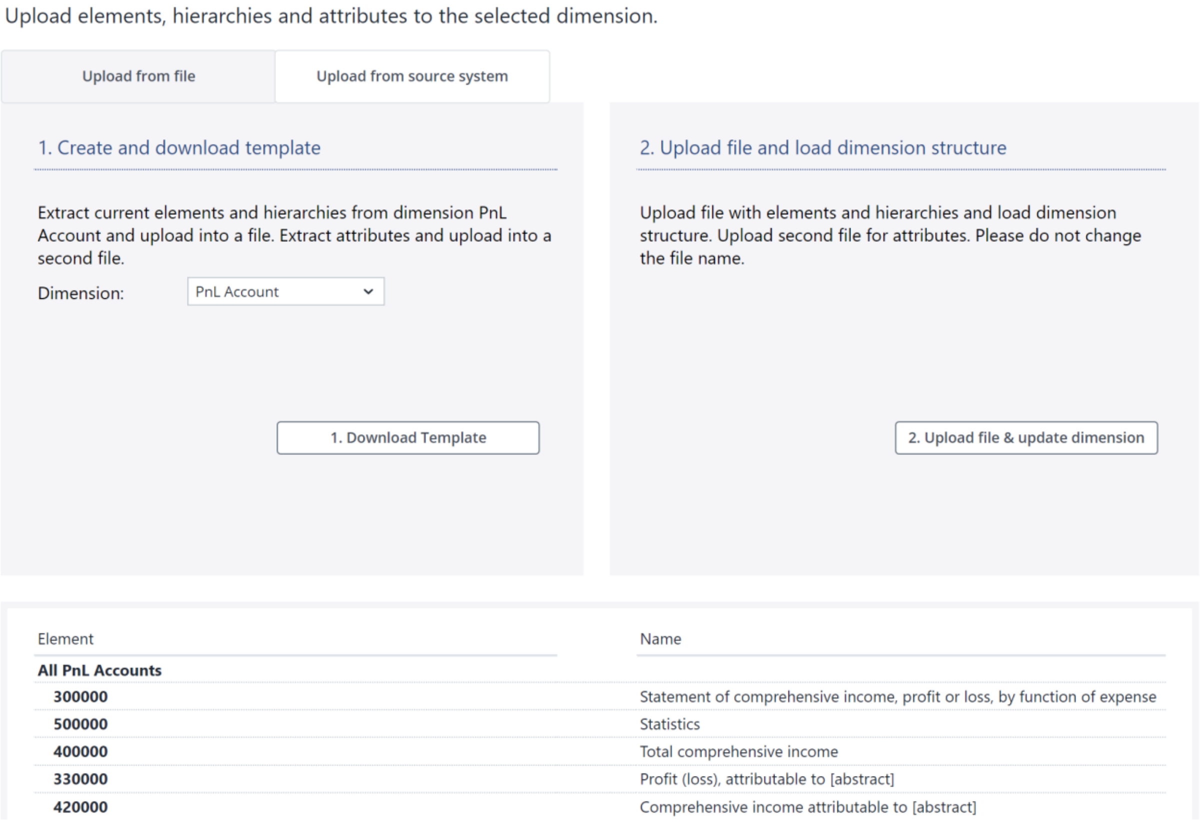
3.3 Data preparation

In this chapter all reports regarding data preparation are described.

3.3.1 Setup dimension structure

The "2. Setup dimension structure" report is to upload elements, hierarchies, and attributes in a user-friendly manner.
The target group are power users and/or implementation experts.

Detailed information can be found in the Foundation documentation.



For Account dimensions like PnL Account, BS Accounts, CF Account and Cost Type the process is slightly different

1. Download Template: download the template, which splits the upload in two parts:
    a. IMPORT_ELEMENTS: which contains only the base elements (accounts) with the respective attributes in combination with its parent (PC)
    b. IMPORT_HIERARCHY: which contains the hierarchy of your account structure down to the lowest consolidated level (FH). As this hierarchy is usually not often changing, most cases you only need to update the IMPORT_ELEMENTS tab to add new accounts in later productive times

   Implementation hint: the template is stored in the Designer in:
   Models > Accelerator > Accelerator IFP > Files > Masterdata > 00_DemoData
2. Upload file & update dimension: fill template and upload file to the Designer
   Please do not change the file name. After uploading information will be extracted from uploaded file and loaded to the dimension.
   Implementation hint: the file will be uploaded in the Designer in:
   Models > Accelerator > Files > Masterdata > 02_DimensionUploaded

3.4 Planning

This chapter describes all reports in section Planning.

3.4.1 PnL planning

The "PnL planning" report is aimed to plan profit and loss data on month, year and account level.
The target group are end users.
Different measures can be chosen in combo box "Measure" like Input or Adjustment.
Last column year-to-go is only shown for forecasts for data entry.
Input is only possible if a base element is selected for currency, partner entity and measure. For consolidated accounts or those accounts which are planned in another cube (i-Icon shows in which cube they are planned) data entry is as well not possible.

<u>Hint:</u> budget can be entered on a yearly basis. Forecast only for year-to-go to ensure that actuals cannot be overwritten.

Version Budget • Year 2022

hide options

Version	Year	Legal Entity	Partner Entity	Currency	Measure	
Budget	2022	Best Bicycle USA LLC	~ - Not applicable	LC	Input	☐ Show Account No.

change workflow status

	FC 9+3	BU	%	BU 2022											
	2021	2022		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Interest revenue calculated using effective inter [..]	0	132,821	0.0%	9,059	9,351	10,812	9,563	10,519	11,794	10,360	11,396	12,778	11,157	12,273	13,760
Total revenue (entry)	0	27,853,002	0.0%	1,899,440	1,959,635	2,264,540	2,004,081	2,208,343	2,477,968	2,177,741	2,388,615	2,677,374	2,336,828	2,573,148	2,885,289
Total revenue	0	27,853,002	0.0%	1,899,440	1,959,635	2,264,540	2,004,081	2,208,343	2,477,968	2,177,741	2,388,615	2,677,374	2,336,828	2,573,148	2,885,289
Cost of sales	0	17,854,660	0.0%	1,217,682	1,256,970	1,453,368	1,285,516	1,414,090	1,585,464	1,392,700	1,531,938	1,717,662	1,499,772	1,649,746	1,849,753
Gross profit	0	9,998,342	0.0%	681,758	702,665	811,173	718,565	794,253	892,504	785,041	856,677	959,713	837,056	923,402	1,035,536
Other income	0	1,295,553	0.0%	88,358	91,208	105,458	93,278	102,608	115,043	101,055	111,158	124,635	108,826	119,708	134,220
Distribution costs	0	2,286,331	0.0%	155,922	160,961	186,119	164,624	181,080	203,025	178,330	196,159	219,943	192,052	211,257	236,859
Administrative expenses	0	1,525,193	0.0%	104,004	107,366	124,120	109,796	120,783	135,433	118,962	130,859	146,759	128,135	140,949	158,027
Other expense	0	2,878,523	0.0%	196,317	202,649	234,311	207,250	227,979	255,609	224,528	246,976	276,919	241,794	265,973	298,217
Other gains (losses)	0	97,983	0.0%	6,683	6,898	7,976	7,055	7,760	8,701	7,643	8,407	9,426	8,231	9,054	10,151

Additionally, the selection in "Set plan version and year (cube)" report and the workflow status and assignments define which cells are open for data entry. Only if those combinations of version and year are activated and the user group has rights to the assignment e.g., Legal Entity "11" and the workflow status is "Data Entry" the cells are open.

2. Set planning configs (cube)

Setup planning versions and periods

Select version and period which are open for data entry.

Legend:

- ☑ Data entry open
- ☐ Data entry closed
- ■ Data entry open for some months

Data Entry selection

	2020	2021	2022	2022-01	2022-02	2022-03	2022-04	2022-05
Budget	☐	☐	☑	☑	☑	☑	☑	☑
Forecast 3+9	☐	☐	■	☐	☐	☐	☑	☑
Forecast 6+6	☐	☐	☐	☐	☐	☐	☐	☐
Forecast 9+3	☐	☐	☐	☐	☐	☐	☐	☐
Mid-Term Planning	☐	☐	☐	☐	☐	☐	☐	☐
Previous Year	☐	☐	☐	☐	☐	☐	☐	☐

With the icon ⚙ comboboxes can be hidden or shown.

The report contains two Dynaranges, one shows the PnL Accounts, the second one shows defined KPIs. In the parameter sheet those nodes can be defined which should be shown in the report.

Settings	
rngDB	localhost/IntegratedFinancialPlann
rngLanguage	~
rngReportTitle	Version Budget | Year 2022
rngDummyElement	~
rngAccountAlias	Name
rngPnLNetIncomeNode	310000
rngPnLKPINode	510000
rngInputMassage	

3.4.2 BS Planning

The "BS planning" report aims to plan balance sheet data on month and account level.
Per default the input is split into increase and decrease for each balance sheet position. If another setup is required, like just one input with movement of the month, the report can be amended by your Implementation expert. The implementation expert just needs to change the transaction type within the Dynarange to the requested one and delete the column which is not needed anymore. The rollover of the month-closing value to the opening value of the next month takes place automatically.
The target group are end users.
Input is only possible if a base element is selected for currency, partner entity and measure. For consolidated accounts or those accounts which are planned in another cube (i-Icon shows in which cube they are planned) data entry is as well not possible.

Version Budget • Year 2022

hide options

Version: Budget | Year: 2022 | Legal Entity: Best Bicycle USA LLC | Partner Entity: ~ - Not applicable | Currency: LC | Show Account No.

change workflow status	AC	BU	Jan				Feb				Mar			
	2021	2022	Opening	Increase	Decrease	Closing	Opening	Increase	Decrease	Closing	Opening	Increase	Decrease	Closing
Total non-current assets	2,247,663	4,319,638	2,876,021	118,355	- 19,899	2,974,477	2,974,477	122,172	- 20,541	3,076,108	3,076,108	141,260	- 23,750	3,193,618
Total property, plant and equipment	1,656,282	3,168,854	2,114,993	89,249	- 17,375	2,186,867	2,186,867	92,127	- 17,935	2,261,059	2,261,059	106,521	- 20,737	2,346,843
Deferred tax assets	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Current tax assets, non-current	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other non-current financial assets	63,500	63,500	63,500	0	0	63,500	63,500	0	0	63,500	63,500	0	0	63,500
Other non-current non-financial assets	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-current non-cash assets pledged as collateral for [..]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total investment property	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goodwill	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total intangible assets other than goodwill	521,882	1,081,283	691,529	29,106	- 2,525	718,110	718,110	30,045	- 2,606	745,549	745,549	34,739	- 3,013	777,275
Investments accounted for using equity method	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total investments in subsidiaries, joint ventures and as [..]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-current biological assets	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total trade and other non-current receivables	6,000	6,000	6,000	0	0	6,000	6,000	0	0	6,000	6,000	0	0	6,000
Non-current inventories	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total current assets	3,457,660	8,318,521	4,934,670	272,545	- 41,877	5,165,337	5,165,337	280,236	- 43,228	5,402,345	5,402,345	322,754	- 49,982	5,675,118
Total assets	**5,705,323**	**12,638,159**	**7,810,691**	**390,899**	**- 61,776**	**8,139,814**	**8,139,814**	**402,408**	**- 63,769**	**8,478,454**	**8,478,454**	**464,014**	**- 73,732**	**8,868,736**
Total equity	4,962,129	11,776,208	7,031,482	0	0	7,354,962	7,354,962	0	0	7,687,777	7,687,777	0	0	8,071,324
Total current assets	3,457,660	8,318,521	4,934,670	272,545	- 41,877	5,165,337	5,165,337	280,236	- 43,228	5,402,345	5,402,345	322,754	- 49,982	5,675,118
Total equity and liabilities	**5,705,323**	**12,638,159**	**7,810,691**	**66,083**	**- 60,440**	**8,139,814**	**8,139,814**	**68,214**	**- 62,389**	**8,478,454**	**8,478,454**	**78,872**	**- 72,137**	**8,868,736**

Additionally, the selection in "Set plan version and year (cube)" report and the workflow status and assignments define which cells are open for data entry. Only if those combinations of version and year are activated and the user group has rights to the assignment e.g., Legal Entity "11" and the workflow status is "Data Entry" the cells are open.

2. Set planning configs (cube)

Setup planning versions and periods
Select version and period which are open for data entry.

Legend:
☑ Data entry open
☐ Data entry closed
■ Data entry open for some months

Data Entry selection

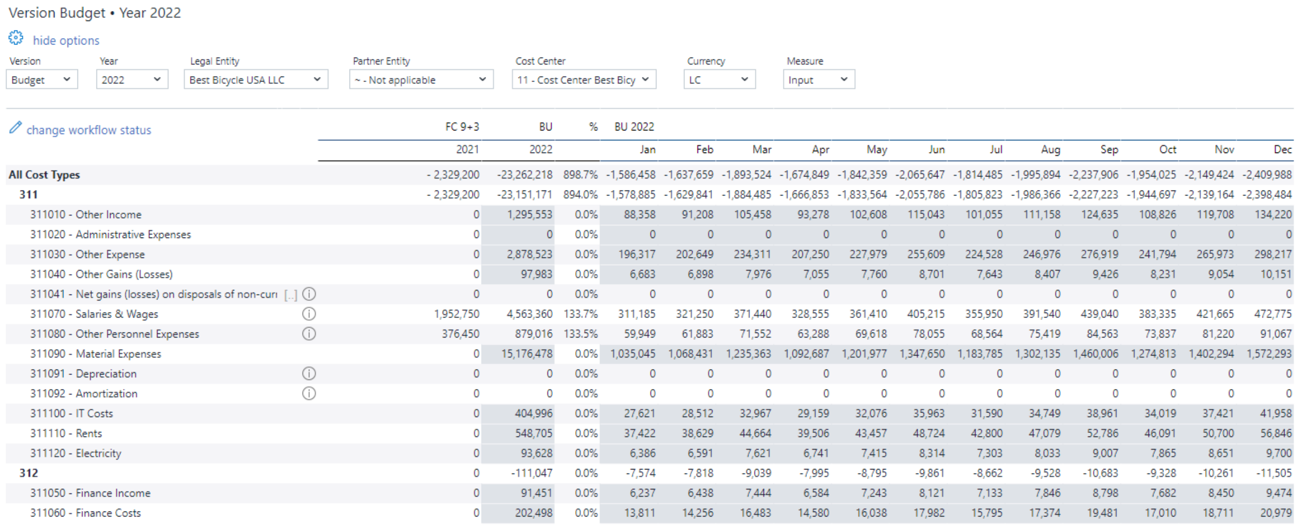
	2020	2021	2022	2022-01	2022-02	2022-03	2022-04	2022-05
Budget	☐	☐	☑	☑	☑	☑	☑	☑
Forecast 3+9	☐	☐	■	☐	☐	☐	☑	☑
Forecast 6+6	☐	☐	☐	☐	☐	☐	☐	☐
Forecast 9+3	☐	☐	☐	☐	☐	☐	☐	☐
Mid-Term Planning	☐	☐	☐	☐	☐	☐	☐	☐
Previous Year	☐	☐	☐	☐	☐	☐	☐	☐

The report contains four dynaranges, which are showing different parts of the balance sheet. Those nodes, which should be shown in the report, can be defined in the parameter sheet. Additionally, two lines are shown in the report which are reflecting the assets and equity & liabilities, those accounts are defined on the parameter sheet as well.

Settings	
rngDB	localhost/IntegratedFinancialPlann
rngLanguage	~
rngReportTitle	Version Budget | Year 2022
rngDummyElement	~
rngAccountAlias	Name
rngTotalAssets	100000
rngNonCurrentAssets	110000
rngCurrentAssets	120000
rngEquityAndLiabilites	200000
rngEquity	210000
rngLiabilities	220000

3.4.3 Cost Center Planning

The “Cost Center planning” report is aimed to plan profit and loss data on month, year and account level.
The target group are end users.
Different measures can be chosen in combo box “Measure” like Input or Adjustment.
Last column year-to-go is only shown for forecasts for data entry.
Input is only possible if a base element is selected for currency, partner entity and measure. For consolidated accounts or those accounts which are planned in another cube (i-Icon shows in which cube they are planned) data entry is as well not possible.
Hint: budget can be entered on a yearly basis. Forecast only for year-to-go to ensure that actuals cannot be overwritten.



Version Budget • Year 2022

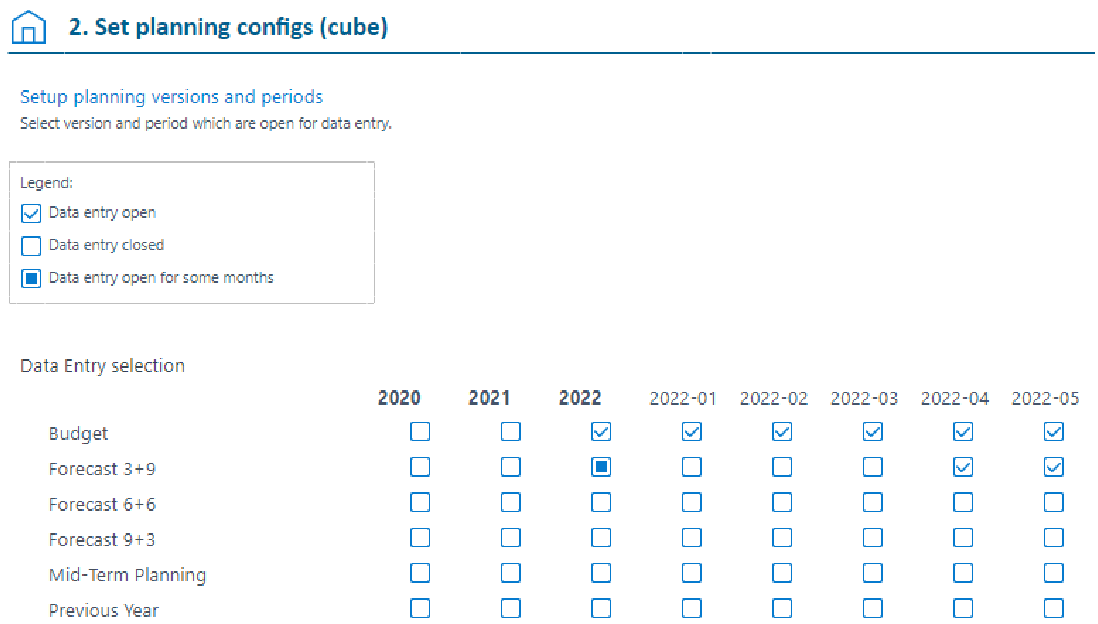
hide options

Version	Year	Legal Entity	Partner Entity	Cost Center	Currency	Measure
Budget	2022	Best Bicycle USA LLC	~ - Not applicable	11 - Cost Center Best Bicy	LC	Input

change workflow status

	FC 9+3	BU	%	BU 2022											
	2021	2022		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
All Cost Types	- 2,329,200	-23,262,218	898.7%	-1,586,458	-1,637,659	-1,893,524	-1,674,849	-1,842,359	-2,065,647	-1,814,485	-1,995,894	-2,237,906	-1,954,025	-2,149,424	-2,409,988
311	- 2,329,200	-23,151,171	894.0%	-1,578,885	-1,629,841	-1,884,485	-1,666,853	-1,833,564	-2,055,786	-1,805,823	-1,986,366	-2,227,223	-1,944,697	-2,139,164	-2,398,484
311010 - Other Income	0	1,295,553	0.0%	88,358	91,208	105,458	93,278	102,608	115,043	101,055	111,158	124,635	108,826	119,708	134,220
311020 - Administrative Expenses	0	0	0.0%	0	0	0	0	0	0	0	0	0	0	0	0
311030 - Other Expense	0	2,878,523	0.0%	196,317	202,649	234,311	207,250	227,979	255,609	224,528	246,976	276,919	241,794	265,973	298,217
311040 - Other Gains (Losses)	0	97,983	0.0%	6,683	6,898	7,976	7,055	7,760	8,701	7,643	8,407	9,426	8,231	9,054	10,151
311041 - Net gains (losses) on disposals of non-curı [..]	0	0	0.0%	0	0	0	0	0	0	0	0	0	0	0	0
311070 - Salaries & Wages	1,952,750	4,563,360	133.7%	311,185	321,250	371,440	328,555	361,410	405,215	355,950	391,540	439,040	383,335	421,665	472,775
311080 - Other Personnel Expenses	376,450	879,016	133.5%	59,949	61,883	71,552	63,288	69,618	78,055	68,564	75,419	84,563	73,837	81,220	91,067
311090 - Material Expenses	0	15,176,478	0.0%	1,035,045	1,068,431	1,235,363	1,092,687	1,201,977	1,347,650	1,183,785	1,302,135	1,460,006	1,274,813	1,402,294	1,572,293
311091 - Depreciation	0	0	0.0%	0	0	0	0	0	0	0	0	0	0	0	0
311092 - Amortization	0	0	0.0%	0	0	0	0	0	0	0	0	0	0	0	0
311100 - IT Costs	0	404,996	0.0%	27,621	28,512	32,967	29,159	32,076	35,963	31,590	34,749	38,961	34,019	37,421	41,958
311110 - Rents	0	548,705	0.0%	37,422	38,629	44,664	39,506	43,457	48,724	42,800	47,079	52,786	46,091	50,700	56,846
311120 - Electricity	0	93,628	0.0%	6,386	6,591	7,621	6,741	7,415	8,314	7,303	8,033	9,007	7,865	8,651	9,700
312	0	-111,047	0.0%	-7,574	-7,818	-9,039	-7,995	-8,795	-9,861	-8,662	-9,528	-10,683	-9,328	-10,261	-11,505
311050 - Finance Income	0	91,451	0.0%	6,237	6,438	7,444	6,584	7,243	8,121	7,133	7,846	8,798	7,682	8,450	9,474
311060 - Finance Costs	0	202,498	0.0%	13,811	14,256	16,483	14,580	16,038	17,982	15,795	17,374	19,481	17,010	18,711	20,979

Additionally, the selection in “Set plan version and year” report and the workflow status and assignments define which cells are open for data entry. Only if those combinations of version and year are activated and the user group has rights to the assignment e.g., Legal Entity “11” and the workflow status is “Data Entry” the cells are open.



2. Set planning configs (cube)

Setup planning versions and periods

Select version and period which are open for data entry.

Legend:
- ☑ Data entry open
- ☐ Data entry closed
- ■ Data entry open for some months

Data Entry selection

	2020	2021	2022	2022-01	2022-02	2022-03	2022-04	2022-05
Budget	☐	☐	☑	☑	☑	☑	☑	☑
Forecast 3+9	☐	☐	■	☐	☐	☐	☑	☑
Forecast 6+6	☐	☐	☐	☐	☐	☐	☐	☐
Forecast 9+3	☐	☐	☐	☐	☐	☐	☐	☐
Mid-Term Planning	☐	☐	☐	☐	☐	☐	☐	☐
Previous Year	☐	☐	☐	☐	☐	☐	☐	☐

3.5 Reporting

This chapter describes all reports in section Reporting.

3.5.1 PnL Reporting

The report “PnL Reporting” aims to compare the planned and previous PnL data and actuals. The target group are end users.

2021-04 • Best Bicycle USA LLC

hide options

Version: Forecast 6 | Period: 2021-04 | Legal Entity: Best Bicycle USA LLC | Partner Entity: ~ - Not applicable | Currency: LC | Measure: Input | Show Account No.

	AC	Δ PY	Δ FC 6+6	Δ BU	Δ PY	Δ FC 6+6	Δ BU	AC	Δ PY	Δ FC 6+6	Δ BU	Δ PY	Δ FC 6+6	Δ BU	PY	FC 6+6	BU
	Apr	%	%	%	#	#	#	Apr (YTD)	%	%	%	#	#	#	2020	2021	2021
Interest revenue calculated using effective inter [..]	9,776	18.3%		-1.4%	1,512	9,776	-142	36,060	29.1%		7.5%	8,118	36,060	2,529	98,387	57,813	118,065
Total revenue (entry)	2,051,324	18.3%		-1.7%	317,185	2,051,324	-35,415	7,566,593	29.1%		7.4%	1,703,425	7,566,593	522,398	20,645,121	12,127,690	24,785,567
Total revenue	2,051,324	18.3%		-1.7%	317,185	2,051,324	-35,415	7,566,593	29.1%		7.4%	1,703,425	7,566,593	522,398	20,645,121	12,127,690	24,785,567
Cost of sales	1,314,202	18.3%		-1.4%	203,237	1,314,202	-18,969	4,847,496	29.1%		7.5%	1,091,318	4,847,496	340,085	13,226,173	7,771,541	15,871,119
Gross profit	737,122	18.3%		-2.2%	113,948	737,122	-16,446	2,719,097	29.1%		7.2%	612,107	2,719,097	182,313	7,418,948	4,356,149	8,914,448
Other income	95,355	18.3%		-1.4%	14,744	95,355	-1,380	351,728	29.1%		7.5%	79,183	351,728	24,669	959,676	563,911	1,151,617
Distribution costs	168,308	18.3%		-1.4%	26,039	168,308	-2,418	620,812	29.1%		7.6%	139,823	620,812	43,596	1,693,669	995,307	2,032,556
Administrative expenses	112,247	18.3%		-1.4%	17,340	112,247	-1,633	414,146	29.1%		7.6%	93,289	414,146	29,082	1,129,926	663,794	1,355,824
Other expense	211,864	18.3%		-1.4%	32,759	211,864	-3,067	781,487	29.1%		7.5%	175,932	781,487	54,810	2,132,254	1,252,926	2,558,718
Other gains (losses)	7,212	18.3%		-1.4%	1,115	7,212	-104	26,601	29.1%		7.5%	5,989	26,601	1,866	72,581	42,649	87,097
Profit (loss) from operating activities	347,269	18.3%		-3.0%	53,669	347,269	-10,813	1,280,981	29.0%		6.8%	288,235	1,280,981	81,359	3,495,355	2,050,683	4,206,064
Gains (losses) arising from difference between previou [..]	0				0	0	0	0				0	0	0	0	0	0
Cumulative gain (loss) previously recognised in other [..]	0				0	0	0	0				0	0	0	0	0	0
Hedging gains (losses) for hedge of group of items wi [..]	0				0	0	0	0				0	0	0	0	0	0
Difference between carrying amount of dividends pay [..]	0				0	0	0	0				0	0	0	0	0	0
Gains (losses) on net monetary position	0				0	0	0	0				0	0	0	0	0	0
Net gain (loss) arising from derecognition of financial [..]	0				0	0	0	0				0	0	0	0	0	0
Impairment gain and reversal of impairment loss (imp [..]	0				0	0	0	0				0	0	0	0	0	0
Share of profit (loss) of associates and joint ventures a [..]	0				0	0	0	0				0	0	0	0	0	0
Other income (expense) from subsidiaries, jointly cont [..]	0				0	0	0	0				0	0	0	0	0	0
Finance income	6,731	18.3%		-1.4%	1,041	6,731	-97	24,828	29.1%		7.5%	5,589	24,828	1,741	67,742	39,806	81,291
Finance costs	14,904	18.3%		-1.4%	2,305	14,904	-216	54,976	29.1%		7.5%	12,376	54,976	3,856	150,000	88,141	180,001
Profit (loss) before tax	339,096	18.3%		-3.1%	52,405	339,096	-10,695	1,250,833	29.0%		6.8%	281,448	1,250,833	79,245	3,413,097	2,002,347	4,107,354

By default, the user can view the following columns:
MTD Actual the percentage and absolute deviation from the previous year, the selected forecast and the budget. To keep the report compact, the value columns of the previous year, forecast and budget are hidden, but can be displayed using the plus sign. The same column setup exists for YTD. On the right side of the report, the full-year values of the previous year, forecasts and budget are also shown.

The report contains two dynaranges, one shows the PnL Accounts, the second one shows defined KPIs. In the parameter sheet those nodes can be defined which should be shown in the report.

Settings	
rngDB	localhost/IntegratedFinancialPlann
rngLanguage	~
rngReportTitle	Version Budget | Year 2022
rngDummyElement	~
rngAccountAlias	Name
rngPnLNetIncomeNode	310000
rngPnLKPINode	510000
rngInputMassage	

3.5.2 Balance Sheet Reporting

The “Balance Sheet Reporting” report aims to compare the planned and previous PnL data and actuals.
The target group are end users.

2021-04 • Best Bicycle USA LLC

hide options

Version	Period	Legal Entity	Partner Entity	Currency	Measure	
Forecast 6	2021-04	Best Bicycle USA LLC	~ - Not applicable	LC	Input	Show Account No.

	AC	Δ PY	Δ FC 6+6	Δ BU	Δ PY	Δ FC 6+6	Δ BU	PY	FC 6+6	BU
	Apr (YTD)	%	%	%	#	#	#	2020	2021	2021
Total assets	5,085,139	166.8%		102.0%	3,179,482	5,085,139	2,568,120	4,008,692	2,105,368	5,603,422
Total non-current assets	2,021,879	133.9%		94.9%	1,157,585	2,021,879	984,721	1,629,953	628,358	1,955,950
Total property, plant and equipment	1,491,455	130.7%		92.3%	845,054	1,491,455	715,770	1,205,344	458,711	1,446,417
Deferred tax assets	0				0	0	0	0	0	0
Current tax assets, non-current	0				0	0	0	0	0	0
Other non-current financial assets	63,500	0.0%		-16.7%	0	63,500	-12,700	63,500	0	76,200
Other non-current non-financial assets	0				0	0	0	0	0	0
Non-current non-cash assets pledged as collateral for which t [...]	0				0	0	0	0	0	0
Total investment property	0				0	0	0	0	0	0
Goodwill	0				0	0	0	0	0	0
Total intangible assets other than goodwill	460,923	210.6%		158.8%	312,530	460,923	282,850	355,109	169,647	426,133
Investments accounted for using equity method	0				0	0	0	0	0	0
Total investments in subsidiaries, joint ventures and associate [...]	0				0	0	0	0	0	0
Non-current biological assets	0				0	0	0	0	0	0
Total trade and other non-current receivables	6,000	0.0%		-16.7%	0	6,000	-1,200	6,000	0	7,200
Non-current inventories	0				0	0	0	0	0	0
Total current assets	3,063,260	194.2%		107.0%	2,021,897	3,063,260	1,583,399	2,378,739	1,477,009	3,647,472
Total equity and liabilities	5,085,139	166.8%	16.8%	102.0%	3,179,482	730,254	2,568,120	4,008,692	7,067,497	5,603,422
Total equity	4,354,885	250.7%	0.0%	153.1%	3,113,134	0	2,634,554	3,300,902	7,031,482	4,754,074
Total liabilities	730,254	10.0%		-8.3%	66,347	730,254	-66,434	707,790	36,015	849,349

By default, the user can view the following columns:
YTD actual, the percentage and absolute deviation from the previous year, the selected forecast and the budget. To keep the report compact, the value columns of the previous year, forecast and budget are hidden, but can be displayed using the plus sign. On the right side of the report, the full-year values of the previous year, forecasts and budget are also shown.

The report displays four dynaranges, which show different parts of the balance sheet. Those nodes, which should be shown in the report, can be defined in the parameter sheet. Additionally, two lines are shown in the report which are reflecting the assets and equity & liabilities, those accounts are defined on the parameter sheet as well.

Settings	
rngDB	localhost/IntegratedFinancialPlann
rngLanguage	~
rngReportTitle	Version Budget | Year 2022
rngDummyElement	~
rngAccountAlias	Name
rngTotalAssets	100000
rngNonCurrentAssets	110000
rngCurrentAssets	120000
rngEquityAndLiabilites	200000
rngEquity	210000
rngLiabilities	220000

3.5.3 Cash Flow Reporting

The "Cash Flow Reporting" report aims to compare the planned and previous cash flow data and actuals.
The target group are end users.
Implementation hint: this report needs a completed cash flow mapping, which is described in

chapter 3.7.10.

2021-04 • Best Bicycle USA LLC

hide options

Version	Period	Legal Entity	Partner Entity	Currency	Measure	
Forecast 6	2021-04	Best Bicycle USA LLC	~ - Not applicable	LC	Input	Show Account No.

	AC	Δ PY	Δ FC 6+6	Δ BU	Δ PY	Δ FC 6+6	Δ BU	PY	FC 6+6	BU
	Apr (YTD)	%	%	%	#	#	#	2020	2021	2021
Effect of exchange rate changes on cash and cash equivalents	0				0	0	0	0	0	0
Net cash flows from (used in) operations	1,124,348	29.1%		36.5%	253,118	1,124,348	300,763	3,067,736	1,420,014	2,899,945
Dividends paid	0				0	0	0	0	0	0
Dividends received, classified as operating activities	0				0	0	0	0	0	0
Interest paid	0				0	0	0	0	0	0
Interest received, classified as operating activities	0				0	0	0	0	0	0
Income taxes refund (paid)	187,391	29.1%		7.5%	42,186	187,391	13,143	511,289	300,437	613,550
Other inflows (outflows) of cash, classified as operating a [..]	0				0	0	0	0	0	0
Net cash flows from (used in) operating activities	936,957	29.1%		44.3%	210,932	936,957	287,620	2,556,447	1,119,577	2,286,394
Net cash flows from (used in) investing activities	-387,788	29.1%		7.5%	-87,300	-387,788	-27,198	-1,058,062	-621,724	-1,269,681
Net cash flows from (used in) financing activities	-30,148	29.1%	-102.9%	-102.5%	-6,787	-1,084,132	-1,212,565	-82,258	3,682,245	4,145,484
Net increase (decrease) in cash and cash equivalents befo [..]	519,021	29.1%	-50.8%	-64.7%	116,844	-534,963	-952,143	1,416,126	4,180,098	5,162,197
Net increase (decrease) in cash and cash equivalents	519,021	29.1%	-50.8%	-64.7%	116,844	-534,963	-952,143	1,416,126	4,180,098	5,162,197
Cash funds at the beginning of period	1,429,626	10489.8%		8724.9%	1,416,126	1,429,626	1,413,426	13,500	0	16,200
Total cash and cash equivalents	6,971,674	593.3%	561.5%	217.6%	5,966,036	5,917,691	4,776,358	8,760,711	6,010,123	13,975,773

By default, the user sees the following columns:
YTD actual, the percentage and absolute deviation from the previous year, the selected forecast and the budget. To keep the report compact, the value columns of the previous year, forecast and budget are hidden, but can be displayed using the plus sign. On the right side of the report, the full-year values of the previous year, forecasts and budget are also shown.

The report contains one dynarange, which reflects the cash flow. The node, which should be shown in the report, can be defined in the parameter sheet.

Settings	
rngDB	localhost/IntegratedFinancialPlann
rngLanguage	~
rngReportTitle	2021-03
rngDummyElement	~
rngAccountAlias	Name
rngCashAccount	4000

3.5.4 Cost Center Reporting

The report "Cost Center Reporting" aims to compare the planned and previous PnL data and actuals. The target group are end users.

2021-04 • Best Bicycle USA LLC

hide options

Version	Period	Legal Entity	Partner Entity	Cost Type	Cost Center	Currency	Measure
Forecast 6	2021-04	Best Bicycle USA LLC	~ - Not applicable	All Cost Types	11 - Cost Center Best Bicy	LC	Input

	AC	Δ PY	Δ FC 6+6	Δ BU	Δ PY	Δ FC 6+6	Δ BU	AC	Δ PY	Δ FC 6+6	Δ BU	Δ PY	Δ FC 6+6	Δ BU	PY	FC 6+6	BU
	Apr	%	%	%	#	#	#	Apr (YTD)	%	%	%	#	#	#	2020	2021	2021
111000 - Board and Management	-31,281	18.2%	0.0%	-1.4%	-4,828	0	445	-115,440	29.1%	0.0%	7.6%	-26,003	0	-8,121	-314,979	-366,903	-377,826
111100 - Management	-27,151	18.3%	0.0%	-1.4%	-4,198	0	398	-100,190	29.1%	0.0%	7.5%	-22,573	0	-7,015	-273,349	-318,478	-328,100
111200 - Board	-4,130	18.0%	0.0%	-1.1%	-630	0	47	-15,250	29.0%	0.0%	7.8%	-3,430	0	-1,106	-41,630	-48,426	-49,725
112000 - Infrastructure	-49,465	18.3%	0.0%	-1.5%	-7,652	0	738	-182,468	29.1%	0.0%	7.5%	-41,106	0	-12,741	-497,755	-580,114	-597,619
113000 - Administration	-249,135	18.3%	0.0%	-1.4%	-38,510	0	3,607	-918,995	29.1%	0.0%	7.6%	-206,901	0	-64,516	-2,507,476	-2,921,767	-3,008,786
114000 - Manufacturing and Installation	-1,308,432	18.3%	0.0%	-1.4%	-202,347	0	18,880	-4,826,226	29.1%	0.0%	7.5%	-1,086,528	0	-338,598	-13,168,143	-15,343,958	-15,801,429
115000 - Sales	-73,915	18.3%	0.0%	-1.4%	-11,444	0	1,051	-272,631	29.1%	0.0%	7.6%	-61,439	0	-19,176	-743,671	-866,752	-892,552
116000 - Support	0				0	0	0	0				0	0	0	0	0	0
117000 - Service Management	0				0	0	0	0				0	0	0	0	0	0
118000 - Purchasing	0				0	0	0	0				0	0	0	0	0	0

By default, the user can view the following columns:
MTD Actual the percentage and absolute deviation from the previous year, the selected forecast and the budget. To keep the report compact, the value columns of the previous year, forecast and budget are hidden, but can be displayed using the plus sign. The same column setup exists for YTD. On the right side of the report, the full-year values of the previous year, forecasts and budget are also shown.

3.6 Administration

3.6.1 Cash Flow Mapping

The "Cash Flow mapping" report allows the user to create the mapping from the PnL and Balance sheet account to build up an indirect Cash Flow.
The target group are power users and implementation experts.

The process is:
- Make sure that your CF Account dimension is setup via the "Setup Dimension structure" report.
- (1.) Update the "PnL and BS Account" dimension, this is a combination of your "PnL Account" and your "BS account dimension".
- (2.) Input your mapping, which are stored in the "Cash Flow Mapping" cube (see description below).
- (3.) Update the Cash Flow Calculation.

Cash Flow Mapping   jedox.   Logout

Cash Flow Mapping

Accounts to mapp

PnL.All PnL Accounts   1. Update Dim PnL and BS Account   2. Enter Mapping   3. Update Cash Flow Calculation

Show Account No.	Type		Mapping Type	Transaction Type	CF Account	Name	Type	Sign
Profit (loss)	Income	1	Auto		1110	Profit (loss)	Proceeds	1
Profit (loss) from discontinued operations	Income							
Profit (loss) from continuing operations	Income							
Tax income (expense)	Expenses	1	-Auto		1121	Adjustments for income tax expense	Proceeds	1
		2	Auto		1600	Income taxes refund (paid)	Payments	1
Profit (loss) before tax	Income							
Profit (loss) from operating activities	Income							
Gross profit	Income							
Other income	Income							
Distribution costs	Expenses							
Administrative expenses	Expenses							
Other expense	Expenses							
Other gains (losses)	Income							
Gains (losses) arising from difference between previous amortised cc	Income	1	-Auto		1125	Adjustments for fair value losses (gains)	Proceeds	-1
		2	Auto		3060	Other inflows (outflows) of cash, classified as financing activi	Proceeds	1
Cumulative gain (loss) previously recognised in other comprehensive	Income	1	-Auto		1131	Adjustments for finance costs	Proceeds	-1

Cash Flow Mapping
To create an indirect Cash Flow calculation, you need to define which account of your PnL and Balance sheet account flow into which account of your Cash Flow.

Please also refer to: Knowledgebase

- Select which accounts (PnL or BS) you would like to map first; the relevant hierarchy is then shown in the rows.
- Type shows you the information stored in the Account dimension as an attribute from each account (Income, Expenses, Assets, Liability).
- A click on the plus sign, another mapping row is added for the selected PnL and BS Account.
- Mapping type defines how the sign of values from the source cubes Profit and Loss or Balance Sheet is to be handled:
    - 1: value is mapped to cash flow account with original sign.
    - -1: value is mapped to cash flow account with reverted sign.
    - Auto: automatic handling of the sign reversal; please have a more detailed view on Knowledge-base
    - -Auto: the same as Auto but with reverted sign.
- Transaction type, which is only needed for mappings from balance sheet accounts. That allows you to select which movements you would like to show in the Cash Flow
- CF Account, is the target cash flow account of the mapping
- Name and Type shows the attribute values of the Cash Flow account
- Sign is the effective mapping sign which is shown after (3.) Update Cash Flow Calculation

To define which Accounts are shown in the dynarange, some settings (Parameter sheet) have to be setup accordingly to your Account structure:

<table>
<tr><th>Settings</th><th></th></tr>
<tr><td>rngDB</td><td>localhost/IntegratedFinancialPlanning</td></tr>
<tr><td>rngCube</td><td>Cash Flow Mapping</td></tr>
<tr><td>rngReportTitle</td><td>Cash Flow Mapping</td></tr>
<tr><td>rngAccountHFilter</td><td>BS.All BS Accounts</td></tr>
<tr><td>rngPnLNetIncomeNode</td><td>300000</td></tr>
<tr><td>rngAccountTFilter</td><td>^(?!BS.Unassigned|BS.~|BS.Check|BS.900000|BS.910000|BS.Debit Credit Shift Accounts|BS.~|BS.[A-Z]|P</td></tr>
<tr><td>rngAccountAlias</td><td>Name</td></tr>
<tr><td>rngCFCashNode</td><td>4000</td></tr>
</table>

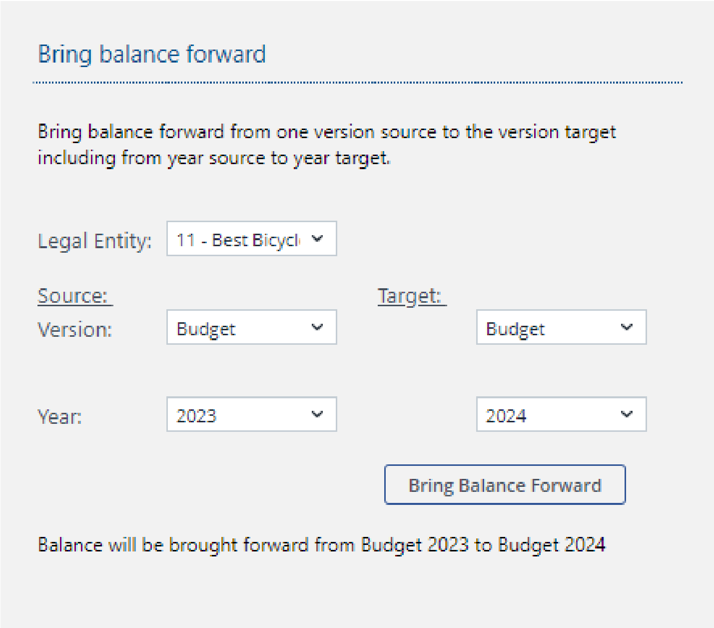
3.6.2 Bring Balance forward

The “Bring Balance forward” report allows the user to bring the closing balance of a year into the opening balance of the next year. This could be done from and to different versions.
The target group are power users and implementation experts.

The process is:
- Select a single Legal Entity or the whole Group.
- Select Source Version and Year.
- Select Target Version and Year.
- Click on the “Bring Balance Forward” button.

Bring Balance Forward

Bring the closing balance from one year to the opening of another year



4. Data model (database)

In the following chapter the existing dimensions and cubes are described.
The target group of the following chapters are implementation experts and power users with Data Modelling knowledge.

4.1 Dimensions

Within the database model, dimensions have been created to store the data on elements within these dimensions. In addition to dimensions (or elements) for master data, further control dimensions exist, which are used to control report content. Technical dimension, which are already explained within the foundation documentation are not listed here.

Type	Dimension	Root	Used for	Comment
↸	Balance Sheet_measure	→ Adjusted and Posted → Input and Posted	Data cube	The node "Adjusted Posted" has three elements as children: "Input", "Adjustment" and "Posted". The node "Input and Posted" has two elements as children: "Input" and "Posted". Additionally, a "Comment" element is available without any parent.
↸	BS Account	→ All BS Accounts	Data cube	Contains the root element, dummy element tilde, Unassigned element and another node 000000 with two base elements below, 100000 (Total assets) and 200000 (Total equity and liabilities). Should be enriched with the customers BS Account structure.
↸	Cash Flow Calculation_measure	No root element	Data cube	Contains one element for the value.
↸	Cash Flow Mapping No	No root element	Data cube	Contains ten element 1-10, if you have to map one single account to more than 10 Cash Flow accounts more elements can be created here.
↸	Cash Flow Mapping_measure	No root element	Data cube	Contains the following element: Mapping type, Transaction type, CF Account, sign, message
↸	Cash Flow_measure	→ Adjusted	Data cube	Adjusted node has two elements as child, Input and Adjustment. Additionally, a comment element is available without any parent.
↸	CF Account	→ All BS Accounts	Data cube	Contains the root element, dummy element tilde, Unassigned element should be enriched with the customers CF Account structure
↸	CF Account Calculation	→ All CF Accounts	Data cube	Contains the root element, dummy element tilde, Unassigned and check element will be enriched during cash flow mapping configuration
↸	Conversion Type	→ All Conversion Types	Data cube	Contains different conversion types like e.g., Average, Month End
↸	Cost Center	→All Cost Centers →All Functional Areas	Data cube	Contains top elements and dummy element tilde and Unassigned at the beginning until it is setup by the Implementer.
↸	Cost Center_measure	→ Adjusted	Data cube	Adjusted node has two elements as child, Input and Adjustment. Additionally, a comment element is available without any parent.

⇱	Cost Type	→ All Cost Types	Data cube	Contains top element and dummy element tilde, Unassigned and some further examples at the beginning until it is setup by the Implementer.
⇱	Currency	→ All Currencies	Data cube	Contains currencies. Dimension should be amended during Exchange Rate implementation, e.g., take needed currencies out of Unassigned and move them below "All Currencies", or add group currency parents like "> EUR" with respective children.
⇱	Legal Entity	→ Total Group	Data cube	Contains top element and dummy element tilde and Unassigned at the beginning until it is setup by the Implementer.
⇱	Month	→ All months ↳ All months_YTD ↳ All months_YTG	Data cube	Contains all years and months and parallel hierarchies for Year-to-date and Year-to-go hierarchies.
⇱	Partner Entity	→ All Partner Entites	Data cube	Contains top element and dummy element tilde and Unassigned, element "Total Group" should be the parent of all legal entities of the Legal Entity dimension.
⇱	PnL Account	→ All PnL Accounts	Data cube	Contains top element and dummy element tilde, Unassigned and some further examples at the beginning until it is setup by the Implementer.
⇱	PnL and BS Account	→ PnL.All PnL Accounts → BS.All BS Accounts	Data cube	Elements will be added during cash flow mapping configuration.
⇱	Profit and Loss_measure	→ Adjusted	Data cube	The node "Adjusted" has two elements as children: "Input" and "Adjustment". Additionally, a "Comment" element is available without any parent.
⇱	Version	Actual Budget Forecast 3+9 …	Data cube	Contains all versions

Legend

Type	Name
⇱	Dimension
→	Root of Top-Element
↳	Root of Parallel-Hierarchy

4.2 Cube structure and construction

This chapter describes the cube structure. It helps to decide if the Accelerator should be implemented.

4.2.1 Overview of existing cubes

The following table describes all existing cubes to store transaction data and controlling cubes:

Name	Type	Comment
Balance Sheet	Transaction data	Used to store Balance Sheet Actuals and planning data like Budget and Forecast.
Cash Flow	Transaction data	Used to show Cash Flow Actuals and planning data like Budget and Forecast.
Cash Flow Calculation	Calculation cube	Used for Cash Flow Derivation
Cash Flow Mapping	Calculation cube	Used for Cash Flow Derivation, stores the mapping
Cost Center	Transaction data	Used to store Cost Center Actuals and planning data like Budget and Forecast.
Profit and Loss	Transaction data	Used to store Profit and Loss actuals and planning data like budget and forecast.

4.2.1 Cube design

The following shows the cube design.

Type	Name	Type	Name
❐	**Balance Sheet**	❐	**Cash Flow Calculation**
↸	Version	↸	Version
↸	Month	↸	Month
↸	Legal Entity	↸	Legal Entity
↸	Partner Entity	↸	Partner Entity
↸	Currency	↸	Currency
↸	BS Account	↸	CF Account Calculation
↸	Transaction Type	↸	Cash Flow Calculation_measure
↸	Balance Sheet_Measure		

Type	Name	Type	Name
❐	**Cash Flow**	❐	**Cash Flow Mapping**
↸	Version	↸	PnL and BS Account
↸	Month	↸	Cash Flow Mapping No
↸	Legal Entity	↸	Cash Flow Mapping_measure
↸	Partner Entity		
↸	Currency		
↸	CF Account		
↸	Cash Flow_measure		

Type	Name	Type	Name
❐	**Profit and Loss**	❐	**Cost Center**
⇱	Version	⇱	Version
⇱	Month	⇱	Month
⇱	Legal Entity	⇱	Legal Entity
⇱	Partner Entity	⇱	Partner Entity
⇱	Currency	⇱	Cost Center
⇱	PnL Account	⇱	Cost Type
⇱	Profit and Loss_Measure	⇱	Cost Center_measure

Legend

Type	Definition
❐	Cube
⇱	Dimension

1. Business logics (Rules)

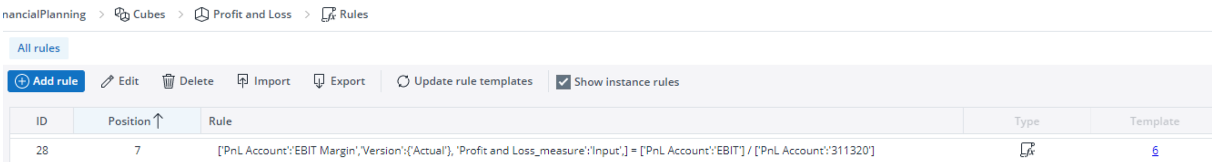
This chapter describes business logics (rules) in the model.
The target group of this chapter are implementation experts and power users with rules knowledge.

There are some rules already preinstalled with the setup of the model “Finance Suite: Integrated Financial Planning” like the exchange rate process, scaling to thousands and millions by group currency and intra year Balance forwarding. Additionally, the model offers rule calculation by attribute values.

For example, if you would like to calculate a KPI “EBIT margin” in your PnL cube you may do it this way:
add the source syntax of a rule to the “ACalculation” attribute in the PnL Account dimension (for computing this calculation for actuals) or to the “PCalculation” attribute (for computing this calculation for planning versions, depends on the calculation schema attribute of the version). The attribute can be maintained using the modeler, or the setup dimension structure processes.

['PnL Account':'EBIT'] / ['PnL Account':'311320']   this means “Divide EBIT by sales(311320)”

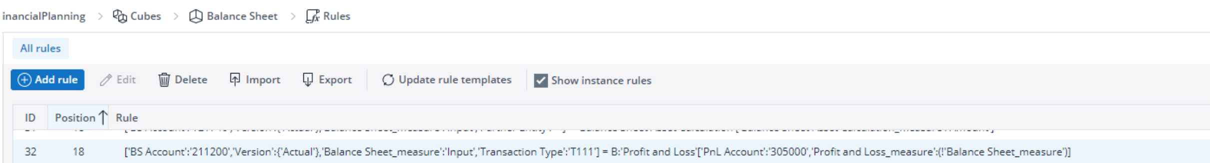
After entering this information, rule templates need to be updated, and the rule instance has been created:



With two additional attributes in the account dimensions, you can integrate cubes into each other.
E.g., Retained earnings account (211200) within BS Account dimension has following attributes values:

ACalculation:
    B:'Profit and Loss'['PnL Account':'305000','Profit and Loss_measure':(!'Balance Sheet_measure')]
ACalculationDependencies:
    Cube:Profit and Loss
ATargetRestriction:
    'Transaction Type':'T111'

Those attributes will create a rule instance, which transfers the net income (305000) of your PnL cube into the retained earnings account. As the dimension setup is slightly different between the cubes, it must be stated how to proceed with the differences. With 'Profit and Loss_measure':(!'Balance Sheet_measure') it is defined that the measure elements within these dimensions need to be the same.
Additionally, in the PnL cube, there is no “Transaction Type” dimension, therefore it needs to be defined on which element the data should be shown, done with the ATargetRestriction 'Transaction Type':'T111'.



2. Integrator projects

This chapter describes all Integrator projects (bundle of automated processes).

The target group of the following chapters are implementation experts or power users with Integrator knowledge. Integrator projects, which are already explained within the foundation documentation are not listed here.

6.1 Project “SKIFP_10_Upload_dimension_Accounts”

This Integrator project is used in "Upload dimension structure“ report.

For Account dimensions like PnL Account, BS Accounts, CF Account and Cost Type the uploaded file contains different tabs for elements and hierarchy information, therefor a different ETL is used.
The tabs in the upload file are:
- IMPORT_ELEMENTS: which contains only the base elements (accounts) with the respective attributes in combination with its parent (PC)
- IMPORT_HIERARCHY: which contains the hierarchy of your account structure down to the lowest consolidated level (FH). As this hierarchy is usually not often changing, most cases you only need to update the IMPORT_ELEMENTS tab to add new accounts in later productive times

6.2 Integrator project “SKIFP_20_Upload_data”

This Integrator project is used in "4. Upload data" report to upload e.g., actuals from a file to a cube.

6.3 Further Integrator project

There are two additional Integrator projects which are taken over from the “Finance Suite: Integrated Financial Planning” model.

- SKIFP_30_CashFlow: supports the mapping and the transfer of data from PnL and BS cube into the Cash Flow.
- SKIFP_40_DataManagement: supports the balance carry forward.

5. Glossary

This chapter describes abbreviations and wording.

Term	Description
BI	Business Intelligence
CPM	Corporate Performance Management
EA	Element attribute structure – a logic to create a dimension structure. Example: Element (Product ID: 10475), Name (Product Name: Bike)
End user	A professional expert on customer side who uses the Jedox software. This person plans data and might not have been part of the implementation process of Jedox.
EPM	Enterprise Performance Management
ETL	Extract, Transform, Load. Often used as a synonym for Integrator.
FH	Full hierarchy: it is a logic to upload elements, hierarchies, and attributes to a dimension. Example: Level1 (All products), level2 (Product group), level3 (Product) Alternative: check out PC and EA.
Implementation expert	A person to build/setup/adjust/implement/configure the Accelerator. A Jedox expert with knowledge about data modelling (setup databases), Integrator (automated processes), business logics (rules) and reporting.
Measure	A measure is a KPI and usually stored within a measure dimension like Profit and Loss_measure.
Model	A model is a solution with prebuilt content like reports, database, and automated processes (Integrator process) with Jedox. It can be installed either through the Marketplace by clicking on one of the solutions or by using a .jdxp file (which is a model as well).
OLAP	Online Analytical Processing is the technology in Business Intelligence to store data in multidimensional analytical format. This enables flexible and high-performance business reporting, planning, and analyzing data.
PC	Parent Child: It is a logic to upload elements, hierarchies, and attributes to a dimension. Example: Parent (All products), Child (Product group) Parent (Product group), Child (Product) Alternative: check out FH and EA.
Power user	A user of the Jedox software on customer side whose skills and expertise are (will be) more advanced than most other users, especially a person who is assigned additional administrative rights and responsibilities for Jedox. For example: definition of dimension structures, defining source systems, load of data. Usually, attendee in Kick Off workshop.

Reporting currency	A reporting currency is the currency with which all legal entities can be compared. Therefore, data of different currencies will be converted to this reporting currency.
Role	System rights are set across roles. Like granting access to different sections “Designer”, “Modeler” and/or ”Integrator”.
Rule	A rule is a business logic, a calculation within the cube which calculates for example measure 1 * measure 2.
User	A user is assigned to a user group. All rights in Jedox are set to user groups or roles. Multiple users can be in one user group. One user can have multiple user groups. In this case the user gets the rights of the most powerful user group.
User group	A user is assigned to a user group and a user group is assigned to a role. Application rights are set across user groups. Like user group controlling has access to database with the Profit and Loss model.
YTD	Year-to-Date. Parallel hierarchy within “Month” dimension. Example: 2022-03_YTD > 2022-01, 2022-02, 2022-03.
YTG	Year-to-Go. Parallel hierarchy within “Month” dimension. Example: 2022-10_YTG > 2022-10, 2022-11, 2022-12.

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