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# BudgetBlitz: Documentation

*Release 2.7*

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**Aug 19, 2021**



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# CHAPTER 1

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## Notations

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Menu: *Actions → Profiles*

Button: SMS and Push tunes

Spinner: Report settings ▼

Directory, report, and chart: SMS import tunes

Directory item: Personal

Section: View

Property of directory item: *Name*

Value that manually edited: One account summary

Variable: `biz.interblitz.intent.CONVERT_TEXT_TO_NEW_TRANSACTION`



# CHAPTER 2

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## Preface

---

It would be nice to draw your attention to the common issue of a Budget Blitz for Android user. It is the high entry level. That means a user should have some time for studying the application. Therefore please schedule a time and it will not be lost for nothing. Most users say they do not regret about time spent.

### 2.1 Introduction

User manual will help you to get started with the app Budget Blitz for Android. The guide is not exhaustive but it is constantly supplemented and developed along with the application. Comments and suggestions are welcome, see. *Feedback* (page 3).

### 2.2 Additional Sources

Questions and answers in English: <http://qa.bbmoney.biz/en/>

Questions and answers in Russian: <http://qa.bbmoney.biz/ru/>

4PDA discussion: <http://4pda.ru/forum/index.php?showtopic=658215>

Previous user manual: [http://interblitz.biz/projects/blitz-0035/wiki/User\\_manual](http://interblitz.biz/projects/blitz-0035/wiki/User_manual)

### 2.3 User Manual Editions

HTML: <http://bbmoney.biz/en/manual/index.html>

PDF: <http://bbmoney.biz/en/assets/budgetblitz-user-manual.pdf>

### 2.4 Feedback

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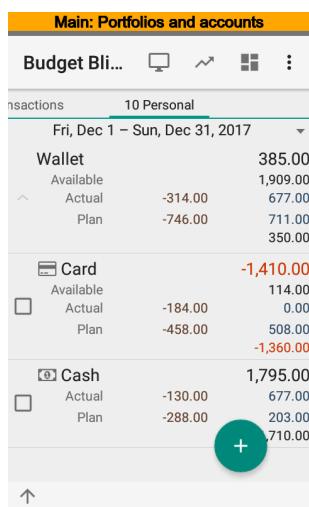


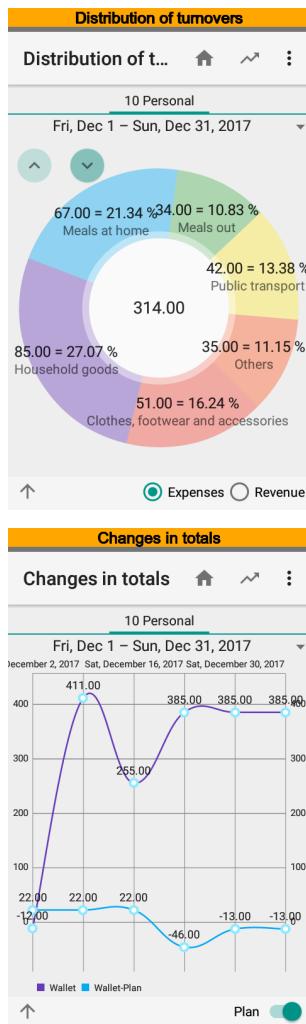
# CHAPTER 3

## About

Budget Blitz for Android is used for accounting and planning:

- personal finances;
- very small business finances;
- small business finances.





### 3.1 Key Features

Combining the accounting of personal finances and finances of a company.

Comprehensive accounting of finances, i.e. categories, payers and payees, persons, projects are supported.

Automatic recognition of SMS and push notifications coming from financial institutions. Amounts, commissions, categories, projects, persons, payers and payees detection, automatic balance adjustment, 160+ banks of different countries supported, see. [Ready to use Financial Institutes](#) (page 121).

Financial highlights on the main screen.

Smart default values for new transactions.

App widget acting as a customizable brief report.

Distributed teamwork with customizable access rights.

PC web browser driven client.

API for receiving transactions from other applications.

Various financial reports.

Reports driven notifications.

## 3.2 Interesting Solutions Implemented

Banks SMS and push notifications detection subsystem:

- Automatic category, payer and payee, person, project recognition;
- Convenient key phrases selection immediately from SMS and push notifications;
- Automatic calculation of rates for foreign transactions;
- Automatic detection of transfers between accounts;
- Option to create custom SMS and push notifications import tune in order to support new banks.

Reports subsystem:

- Simplified OLAP technology is used for reports;
- Drilldown feature supported;
- App widgets are used for brief reports;
- Shortcuts with predefined settings for reports.
- Reports driven notifications, access to the prepared report from notification.

Teamwork subsystem:

- Data exchange is used, no registration, no common database, each team member has own database.
- Flexible system of rights and data areas for exchange. You can synchronize transactions between team members for only one account, a project, and so on.
- Unlimited number of team members.

PC access subsystem:

- Windows, Linux, Mac, etc are supported by PC client. All you need is modern browser. Internet Explorer 8+, Google Chrome, Apple Safari, Mozilla Firefox, Opera supported.



# CHAPTER 4

## How It Works

### 4.1 Funds Accounting

Budget Blitz for Android uses transactions to store all movement of funds. Each transaction has four dimensions category, project, payer or payee, and person. Transactions can be actual or planned and onetime or recurring. Recurring transactions have own customizable frequency. Generally this ones are planned but it is possible to make actual recurring transactions too.

Any transaction can be split for details. These transactions are called split, see. [split](#).

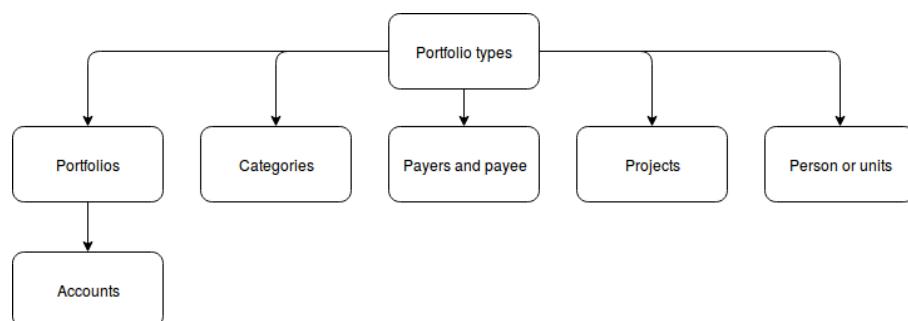
### 4.2 Directories Structure

Each transaction has own account. It can be account of a financial institution, or e-money account, or cash, or something else. Each transaction has own currency that may be differ from account currency.

In its turn each account belongs to a portfolio. Each portfolio has own currency that may be differ from account currency also.

But that's not all. Portfolios have a type. It may be considered as a kind of activity. You will have only one personal type of portfolio for personal finances. But when you have a business then personal and business portfolio types will be in use. For some special cases more than two portfolio types can be used.

Category, project, payer or payee, and person connected to the portfolio type. It is not really complex as you can see on the chart below:



---

**Note:** You can edit any directory. For example, add a currency, a category or something else. There are no restrictions!

---

## 4.3 Difference Between Contractors and Persons

Contrary part of transaction is payer or payee. This is often called a contractor. Only transfer transactions have no contractor. All other transactions have. For example your child is contractor when you give him or her some money. So you should put him or her to the **(Payers and payees)** directory.

Persons are transaction details as well as categories and projects. For a example a shop is the contractor and your child is the person when you buy clothes to your child.

There is an option to connect contractor and person. To do so just define a person in a card of contractor. After that the person will be selected within the contractor. For instance, in order to combine both examples above, you should consider the child as the contractor and the person at the same time.

As the result, you will see total child expenses using a person filter and total money delivered to the child using a contractor filter.

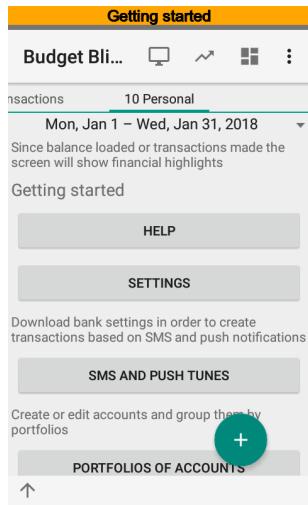
# CHAPTER 5

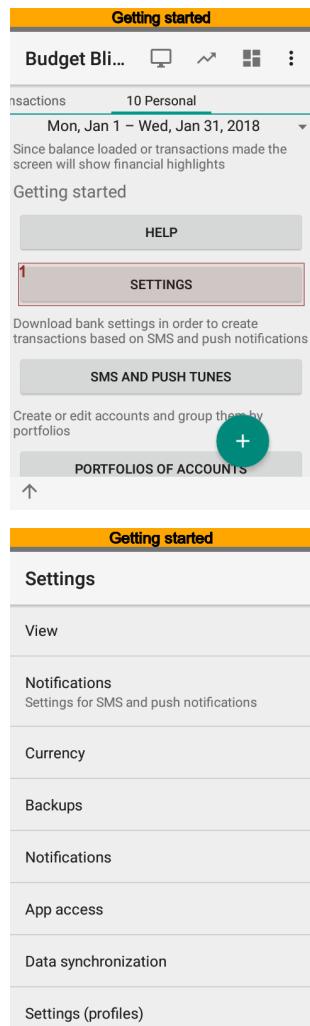
## Getting Started

In this chapter it is suggested the certain sequence of actions for setting up the application. If you don't like that, you don't have to. Just remember, any option you like, you can change later.

### 5.1 Basic Customization

Edit basic settings after the first start of Budget Blitz for Android.





Here you can:

- set a secret key pattern to restrict app access;
- set SMS and push notifications parser on or off;
- set synchronization between devices on or off;
- set default money amount sign for new transactions;
- set main currency and a source for foreign exchange rates;
- set up automatic backups;
- set upcoming payment notifications on or off;
- set ring tones when transactions created on SMS and push notifications coming.

While basic settings are ready you can go deeper. Next steps you can see on the main screen.

## 5.2 Loading Bank Settings

This section is intended for users who plan to use automatic creation of transactions on SMS or push notifications arrived from bank or payment systems or other installed apps.

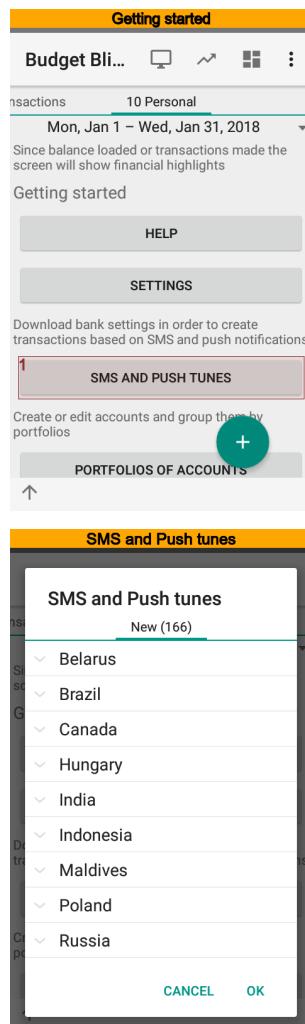
Requirements for automatic transactions creation on SMS push:

1. the option should be on, see menu *Actions → Profiles*;
2. the app should have access to SMS (Android 6+).

Requirements for automatic transactions creation on notification push (use menu *Actions* → *Profiles*):

1. you should select packages to import push notifications:
2. you should grant access rights to the app.

Press the button **SMS and Push tunes** to load setting for your bank or payment system. Hereafter to do that use menu *Actions* → *Import* → *SMS and Push tunes* or directory **SMS import tunes**.



## 5.3 Portfolio and Account Settings

Once installed the app has three portfolio types (**Personal**), (**Small business**), (**Universal**), one personal portfolio (**Wallet**), two accounts (**Card**), (**Cash**) and default list of categories.

Values to show depend on the portfolio type of the transaction. For example, one categories list is used for personal finances and another for a small business finances. But nevertheless there are some common categories. Universal type of the portfolio is used for this values. Universal values shown regardless portfolio type of the transaction.

A portfolio is like a group of accounts. On the main screen the app groups accounts by portfolios and calculates financial highlights.

Make the required amount of portfolios and accounts. See *Account Settings for Notifications Import* (page 39) to use automatic transactions creation via SMS or push notifications.

Now you can import SMS or import initial transactions from **CSV** and **OFX** or just enter initial balance. Once you have at least one transaction the main screen will show a summary and buttons will disappear.

## 5.4 Initial Data Import

First of all check account settings according chapter [Account Settings for Notifications Import](#) (page 39). Then press **SMS and Push notifications** in the **Import** section or select the menu **Actions → Import → SMS and Push notifications**, select an account and then import notifications. See more details in the chapter [Data Import](#) (page 51) and [questions and answers](#).

Also you can import initial transactions from **CSV** and **OFX** file. Check and edit CSV file before import according to chapter [Data Import](#) (page 51). You have no need to modify OFX file before import.

## 5.5 Entering Initial Balance and Credit Limit

You can enter initial account balance via transaction. The date of transaction can be arbitrary but it is highly preferred to make transaction first in the transactions list. Another important thing is to use category **Initial balance loading** for that transaction.

The screenshot displays two views of the BudgetBlitz application interface:

**Top View (Transaction Entry):**

- Header: "Initial balance"
- Toolbar: Standard input controls (X, arrows, etc.).
- Fields:
  - Date and time: "Thu, Dec 21, 2017" and "9:00 AM".
  - Value: "-8.00/114.00 USD".
  - Note: "Value in the transaction currency (expenses must be negative, e.g. -200)".
  - Amount: "± -8".
  - Category: "Card" (selected).
  - Payer or payee: "1 Public transport" (highlighted with a red border).
  - Other fields: "00 Other" (disabled), "Project" (disabled).

**Bottom View (Category Selection):**

- Header: "Initial balance"
- Toolbar: Standard input controls (X, etc.).
- Fields:
  - Category: "Public transport" (highlighted with a red border).
  - Name: "Public transport".
  - Description: "Key phrases (comma separated), ensure item selection when the app creates new transaction on SMS push or data import."
  - Type of portfolio:
    - 10 Personal
    - Revenue (unchecked)
    - Expense (checked and highlighted with a red border)
    - Totaling (summary)
    - Eliminable from portfolio (e.g., transfer)
    - Archived

As well as initial balance you can enter a credit limit via transaction too. It is preferred that the transaction date coincide with the date of setting the limit by the bank. Use **Credit limit changing** category. Please pay attention that it is a technical category with *Revenue* and *Expense* set off. You can see more details about such approach reasons at [questions and answers](#) (How to setup credit limit for new or existed account).

The screenshot shows two screens of the BudgetBlitz mobile application. The top screen is titled 'Initial balance' and displays a transaction entry form. It includes fields for Date and time (Wed, Dec 21, 2016, 6:00 PM), Value in the transaction currency (e.g., -200), Note (1 524), Account (Card), Category (Credit limit changing), Payer or payee (00 Other), and Project. The bottom screen is also titled 'Initial balance' and shows a configuration for a 'Credit limit changing' item. It lists 'Name' (one), 'Type of portfolio' (90 Universal), and several checkboxes: Revenue (unchecked), Expense (unchecked), Totaling (summary) (unchecked), Eliminable from portfolio (e.g., transfer) (checked), and Archived (unchecked).

It would be better to enter each debt or credit with two transactions. For example you have a loan of 1000 USD. So you should

1. make a positive transaction with amount of 1000 USD using category (Loans) and a real contractor or person.
2. make a negative transaction with amount of 1000 USD using category (00 None) or real one if known.

As result the balance is equal zero, but (Debts and credits) report will show the value of your loan.



# CHAPTER 6

## Main Screen

### 6.1 Description

Main screen of Budget Blitz for Android contains portfolios and accounts financial highlights. The app shows as much highlights as you have portfolio types. Examples below have only one Personal portfolio type.

Financial highlight has totals of each account and portfolio. Available amount is shown when account has a credit limit.

Actual and planned amounts of revenues and expenses are placed below totals. Also a transfer amount is shown if exists in the current time range.

Main screen			
Budget Bl...			
Transactions 10 Personal			
Fri, Dec 1 – Sun, Dec 31, 2017			
Wallet	385.00		
Available	1,909.00		
Actual	-314.00	677.00	
Plan	-746.00	711.00	
	350.00		
Card	-1,410.00		
Available	114.00		
Actual	-184.00	0.00	
Plan	-458.00	508.00	
	-1,360.00		
Cash	1,795.00		
Available	677.00		
Actual	-130.00	203.00	
Plan	-288.00	710.00	

**Main screen**

Budget Bl...

Transactions 10 Personal

Fri, Dec 1 – Sun, Dec 31, 2017

Category	Actual	Plan	Available
Wallet	-314.00	-746.00	1,909.00
Card	-184.00	-458.00	114.00
Cash	-130.00	-288.00	1,795.00

**Main screen**

Budget Bl...

Transactions 10 Perso

Fri, Dec 1 – Sun, Dec 31, 2017

Category	Actual	Plan	Available
USD	-314.00	-746.00	677.00
1.0000	1.0000	1.0000	363.00

**Thu, 12/21/2017**

- Thu, 12/21/2017, 9:20 AM -51.00 Clothes, footwear and accessories 1,795.00
- Thu, 12/21/2017, 9:00 AM -8.00 Public transport 114.00

**Wed, 12/20/2017**

- Wed, 12/20/2017, 6:00 PM -3.00 Pocket expenses 1,846.00

**Tue, 12/19/2017**

- Tue, 12/19/2017, 5:00 PM -25.00

The list of all transactions according the current time range is shown at the left of summary.

## 6.2 Time Range Selection

Time range editor is placed at the top of screen. Editor supports swipe and select gestures.

**Main screen**

Budget Bl...

Transactions 10 Personal

1 Fri, Dec 1 – Sun, Dec 31, 2017

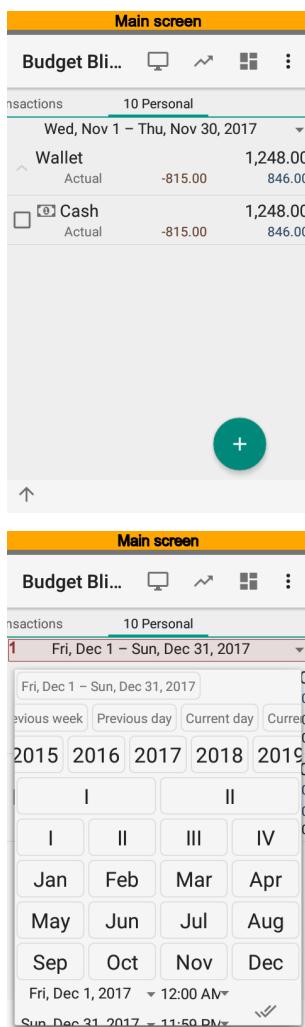
Category	Actual	Plan	Available
Wallet	-130.00	-288.00	677.00
Cash	-130.00	-288.00	1,795.00

**↓**

Listview setting

Portfolios of accounts

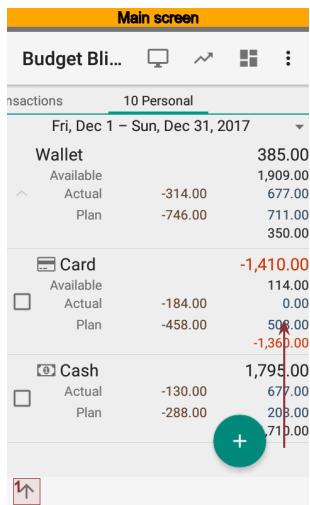
Accounts



## 6.3 List View Settings

List view settings is placed at the bottom of screen. You can change default grouping, edit filter, and change time range. Using filter you can setup a portfolio, account, currency restriction, and put plan on or off.

At the pictures below you can see how to set up account filter.



**Main screen**

Account	Available	Actual	Plan	Balance
Wallet	1,909.00	-314.00	-746.00	385.00
Card	114.00	-184.00	-458.00	-1,410.00
Cash	508.00	0.00	-458.00	95.00

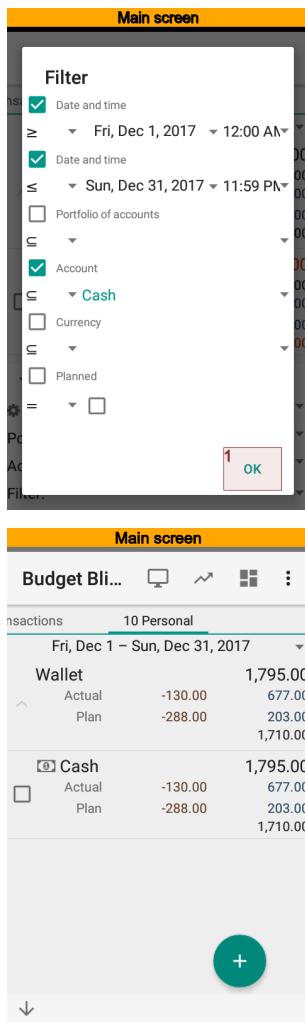
Listview setting  
Portfolios of accounts  
Accounts  
Filter:

**Main screen**

**Filter**

- Date and time
  - ≥ Fri, Dec 1, 2017 12:00 AM
  - ≤ Sun, Dec 31, 2017 11:59 PM
- Portfolio of accounts
- Account
- Currency
- Planned
- =

OK



Now the main screen has only one **(Cash)** account.

## 6.4 Saving List View Settings

You can save modified list view settings in order to use them in the future. Select **Report settings ▾** and create new setting. Filters will be copied to the new setting. So, you need to put a name of the setting, for example, One account summary, and press **Save**.

The top screenshot shows the main screen of the BudgetBlitz app. It displays transaction history for two accounts: Wallet and Cash. The Wallet account has an Actual balance of -130.00 and a Plan balance of -288.00, resulting in a total of 1,795.00. The Cash account also has an Actual balance of -130.00 and a Plan balance of -288.00, resulting in a total of 1,795.00. The bottom screenshot shows the settings screen for account summary, which includes options for fixing the start of the period, setting a fixed period start date (Thu, Dec 21, 2017 at 12:00 AM), and setting a date offset relative to the start of the period (0 days, 0 months).

It is possible to have several settings. The app will use last setting for the main screen after run.

# CHAPTER 7

## Directories

Directories are available from the top menu or from the *Actions* → *Directories* menu. It depends on the current screen.

The screenshot shows the 'Budget Blip...' application window. At the top, there's a toolbar with icons for file operations and a search bar. Below the toolbar, the title 'Budget Blip...' is followed by a date range 'Fri, Dec 1 ~ Sun, Dec 31, 2017'. The main area displays a table of wallet transactions:

Category	Sub-Category	Value
Wallet		385.00
Available		1,909.00
Actual	-314.00	677.00
Plan	-746.00	711.00
		350.00
Card		-1,410.00
Available		114.00
Actual	-184.00	0.00
Plan	-458.00	508.00
		-1,360.00
Cash		1,795.00
Actual	-130.00	677.00
Plan	-288.00	203.00
		710.00

A green circular button with a '+' sign is located at the bottom right of the transaction table.

The screenshot shows the 'Budget Blip...' application window. The left sidebar lists categories: Wallet, Card, and Cash. The 'Wallet' category is expanded, showing sub-categories: Available, Actual, and Plan. The 'Card' category is also expanded, showing sub-categories: Available, Actual, and Plan. The 'Cash' category is collapsed. The main area displays a list of categories:

- Types of portfolios
- Portfolios of accounts
- Accounts
- Categories
- Projects
- Payers and payees
- Persons and units
- Recurring transactions
- Currencies
- Exchange rates

## 7.1 Portfolio Types

Portfolio types are used to separate dimensions between your activities. For example, one set of categories is used for personal finance and another set is used for business finances. When you edit a transaction its dimensions (category, payer or payee, project, and person) correspond to the certain type of portfolio.

**Types of portfolios**

Name	Type
10 Personal	Personal
20 Small I	Small

**Portfolios of accounts**

Name	Type
Wallet	Personal

**Accounts**

Name	Type
Card	Credit
Cash	Cash
Wallet	Personal

It will be useful to pay attention to the **Universal** type of portfolio. Its name is **(00 None)** for old versions. Dimensions of this type of portfolio are always available. For example **(Transfer)** category can be selected in any transaction regardless selected account and connected portfolio type.

---

**Note:** Dimensions of the **(Universal)** type of portfolio are always available

---

## 7.2 Portfolios

Portfolio is a group of accounts. Portfolio has own currency. The Budget Blitz for Android uses a portfolio currency to show financial highlights. Use the **(Currencies)** directory to apply currency rates.

## 7.3 Accounts

Account is a bank account, debit or credit card, investment account, cash, or something else. Account has own currency. It may differ from a currency of portfolio.

Identity of an account is used for transactions import, see [Data Import](#) (page 51). You can put several identities. Use the comma to separate one identity from another. Usually card or account number is used for identity. Phone number, or SMS sander name, or identity of push notifications package can be considered as identity as well.

Key phrases are also used for transactions import. For transfers source account is detected by identity and target account is detected by key phrases. Key phrases are used for transfers only.

For example you have SMS from bank:

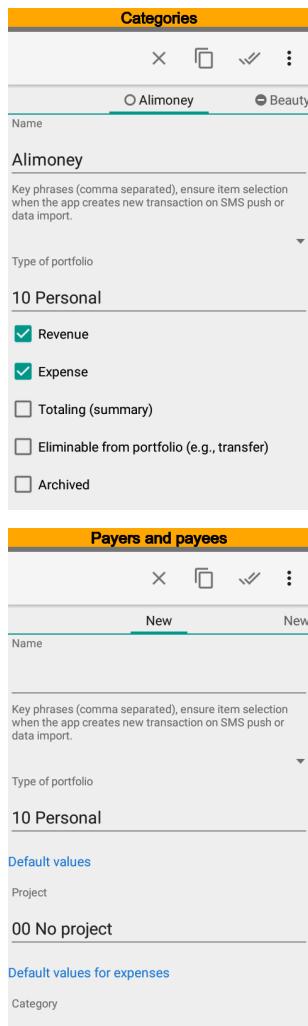
Visa2900 card. Cash withdraw 200.00 USD ATM 5412. Balance: 274.26 USD. 25/03/14,  
→15:00:00.

Visa2900 is identity of the **(Card)** account, ATM is the key phrase for the **(Cash)** account. Since SMS pushed the app Budget Blitz for Android will create two transactions, debit transaction on **(Card)** account and credit transaction on **(Cash)** account.

SMS import tune establishes the algorithm of transactions detection. See more details in the [Advanced Import SMS and Push Notifications Setting](#) (page 45).

Default values of payers and payees, projects and persons are used when you create transaction and import transactions. Also the app uses this values for teamwork on data exchange.





## 7.4 Categories

**Categories** directory plays the main role for the classification of transactions. A category may have a set of options, *Revenue*, *Expense*, *Totaling (summary)*, technical, *Eliminable* and *Archived*.

Categories sorting order under transaction editing depends on *Revenue* and *Expense* options. For a revenue transaction revenue categories are placed at the beginning and then expense ones placed and vice versa.

A category may be neither revenue nor expense. In that case the category is technical. For instance technical category is used for credit limit changing. For that transaction there is no money turnovers for a card owner but nevertheless balance is changed. See more details about credit limit at [questions and answers \(How to setup credit limit for new or existed account?\)](#).

Since a category has *Totaling (summary)* option you can use [Debts and credits](#) and [Plan implementation](#) reports to get there balance.

Sometimes you need to eliminate transactions from revenues and expenses. Usually it is transfer transactions. Use categories with *Eliminable* option for them. The app has standalone totals at the main screen and transactions list for transfers and other transaction with categories with *Eliminable* option.

The app uses key phrases to find an item when importing transactions. You can set several comma separated key phrases.

It is possible to define several categories for a transaction.

Once the app installed the directory of categories has default items. It's up to you edit, add, or delete them.

## 7.5 Payers and Payees

Contrary part of transaction is payer or payee. This is often called a contractor. Only transfer transactions have no contractor. But all other transactions have. Transaction have only one contractor.

## 7.6 Projects

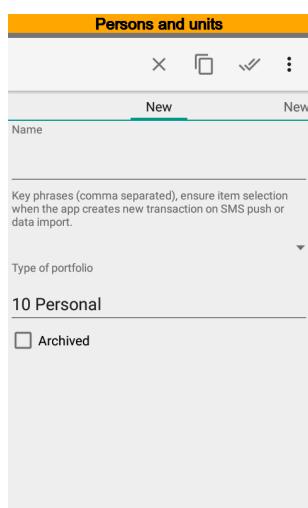
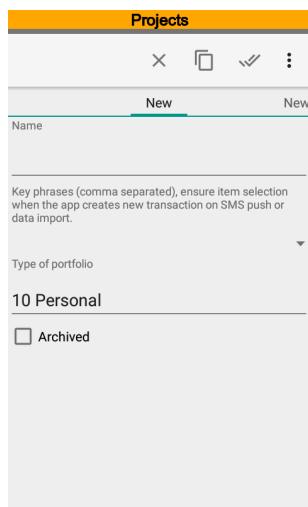
You can use projects to account vacations, startups, housing projects and so on. Transaction may have several projects.

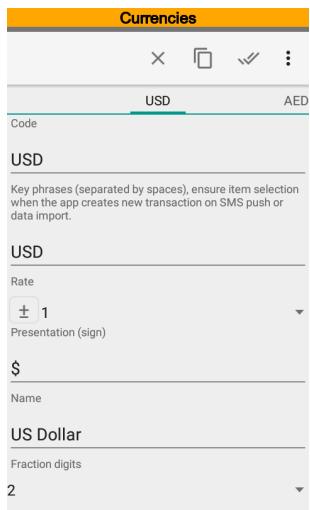
The app uses key phrases to find an item when importing transactions. You can set several comma separated key phrases.

## 7.7 Persons

You can use persons to account family members, company staffers and so on. Transaction may have several projects.

The app uses key phrases to find an item when importing transactions. You can set several comma separated key phrases.





## 7.8 Currencies

Once the app installed it contains almost all world currencies. Of course you can add a new one.

Currency rates are used for calculate financial highlights. You can set rates manually or load from internet resources. Available sources are European Central Bank, Russian Central Bank (currencies and metals), Bank of Canada, National Bank of the Republic of Belarus, National Bank of the Republic of Kazakhstan, Bank of Israel, BitPay (BTC rates), Poloniex (cryptocurrencies trading market).

Let author know if you need more, see *Feedback* (page 3).

# CHAPTER 8

## Transactions

### 8.1 Introduction

Transactions are used to account any changes in funds. So use a transaction when you need to enter an initial balance, change a credit limit, store crediting or debiting funds, store cash withdrawal at ATM, or something else. This approach is most versatile. The history of all movements will be stored due to that approach and you will be able to recall any transaction you need.

Transactions			
Transactions		Home	More
Fri, Dec 1 – Sun, Dec 31, 2017		-184.00	
USD	1.0000	0.00	
		-184.00	
Thu, 12/21/2017			
<input type="checkbox"/> Thu, 12/21/2017, 9:00 AM	-8.00	114.00	
Public transport			
Tue, 12/19/2017			
<input type="checkbox"/> Tue, 12/19/2017, 5:00 PM	-25.00	122.00	
Meals at home			
<input type="checkbox"/> Tue, 12/19/2017, 9:15 AM	-3.00	147.00	
Pocket expenses			
Sat, 12/16/2017			
<input type="checkbox"/> Sat, 12/16/2017, 11:00 AM	+35.00	150.00	
Household goods			
	+		

Fri, Dec 1 – Sun, Dec 31, 2017

USD  
1.0000

**Thu, 12/21/2017**

- Thu, 12/21/2017, 9:00 AM -8.00 Public transport 114.00

**Tue, 12/19/2017**

- Thu, 12/19/2017, 5:00 PM -25.00 Meals at home 122.00
- Thu, 12/19/2017, 9:15 AM -3.00 Pocket expenses 147.00

**Sat, 12/16/2017**

- Sat, 12/16/2017, 11:00 AM +35.00 Household goods 150.00

**Transactions**

Fri, Dec 1 – Sun, Dec 31, 2017

USD  
1.0000

**Thu, 12/21/2017**

- Thu, 12/21/2017, 9:00 AM -8.00 Public transport 114.00

**Tue, 12/19/2017**

- Thu, 12/19/2017, 5:00 PM -25.00 Meals at home 122.00
- Thu, 12/19/2017, 9:15 AM -3.00 Pocket expenses 147.00

**Sat 12/16/2017**

**Listview setting**

Filter: Account; Planned; Portfolio of accounts; Currency; Type of portfolio

You can use filters and fast time range selection at the transactions list.

Transactions

1 Wed, Nov 1 – Thu, Nov 30, 2017

USD  
1.0000

**Thu, 11/23/2017**

- Thu, 11/23/2017, 2:00 PM -4.00 Pocket expenses 298.00

**Mon, 11/20/2017**

- Mon, 11/20/2017, 12:30 PM -34.00 Meals out 302.00

**Sun, 11/19/2017**

- Sun, 11/19/2017, 6:00 PM 508.00 Salary, wages 336.00

**Tue, 11/7/2017**

- Tue, 11/7/2017, 2:00 PM -4.00

**Transactions**

1 Wed, Nov 1 – Thu, Nov 30, 2017

USD  
1.0000

**Thu, 11/23/2017**

- Thu, 11/23/2017, 2:00 PM -4.00 Pocket expenses 298.00

**Mon, 11/20/2017**

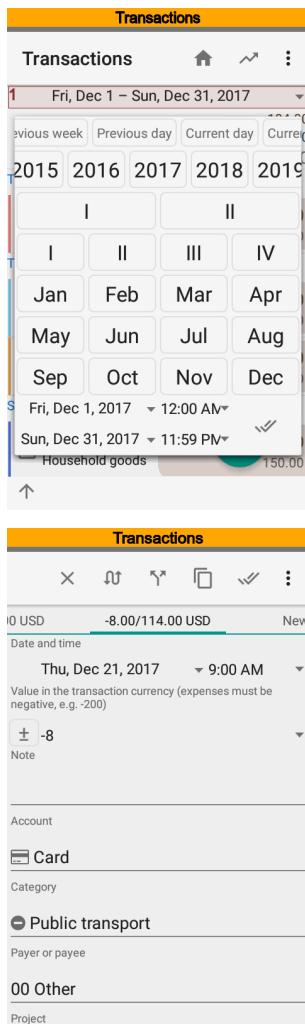
- Mon, 11/20/2017, 12:30 PM -34.00 Meals out 302.00

**Sun, 11/19/2017**

- Sun, 11/19/2017, 6:00 PM 508.00 Salary, wages 336.00

**Tue, 11/7/2017**

- Tue, 11/7/2017, 2:00 PM -4.00



Transaction has to be one of revenue or expense. There is no special option just put positive or negative amount. For transfer use categories with *Eliminable* option. Since installed the app contains **(Transfer)** category you may apply to.

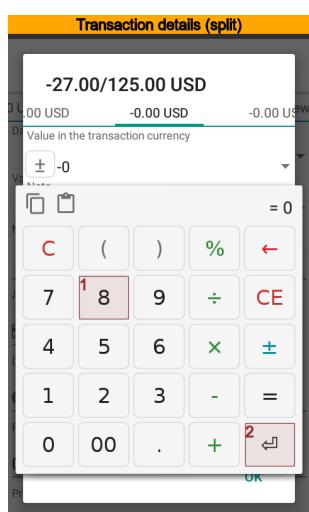
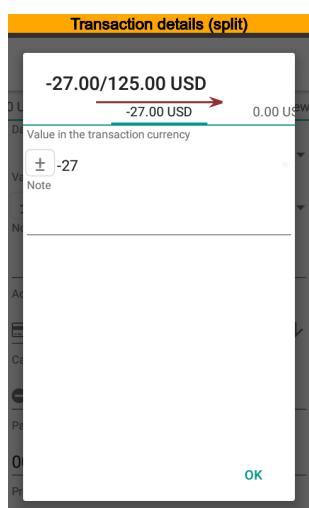
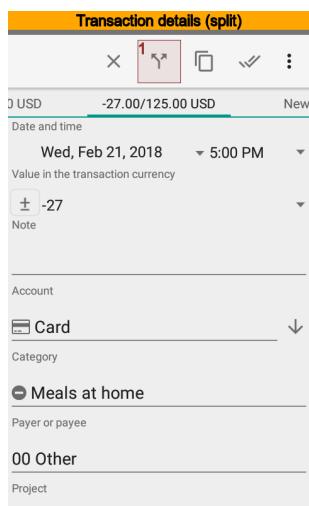
For a foreign transaction you should put a currency and it's rate. This rate can be different from a rate stored in the **(Currencies)** directory. The app by itself calculates currency and rate for transactions imported from SMS and push notifications.

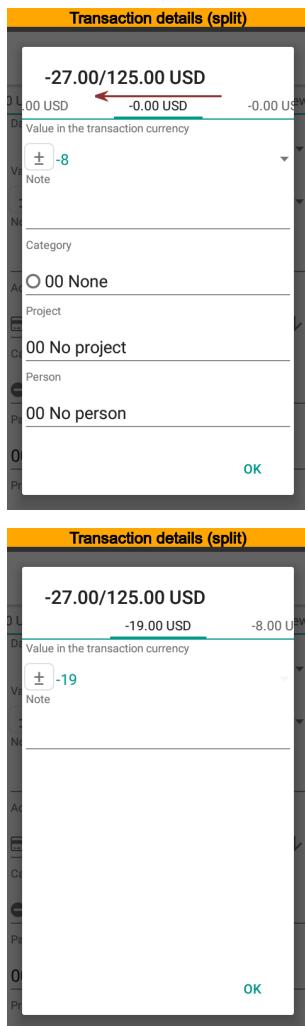
Use transaction dimensions, categories, payers, payees, projects, and persons to get a comprehensive funds accounting.

## 8.2 Splits

You can divide transaction for details. It is often called as make a *split*. When you have a check in a supermarket it is convenient to make a split to store food costs, household goods costs, and so on. Of course it is far from the only case.

The app always calculates first part of a split by itself. Just put amounts of others. Put zero amount to remove redundant part.





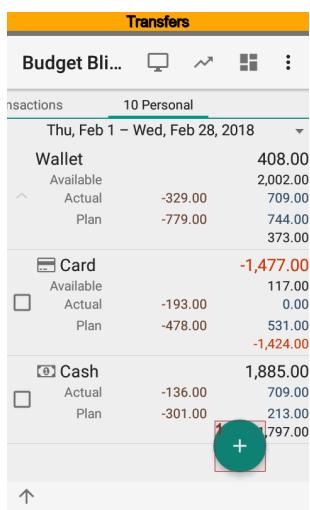
## 8.3 Planned Transactions

Transactions are one of actual or planned. The option *Planned* is used for a planned transaction. The app takes into account planned transaction until they have expired. A date and time of a transaction is a key for expiration. You can plan any funds movement, expenses, revenues, debts, credits, and so on. Reports will help you to compare actuals and plans.

## 8.4 Manual Transfers

The app stores transfer within two transactions. There is a fast and convenient way to make a transfer from a transaction card.

1. Make a new transaction and put an amount.
2. Select the **Transfer** button near the source account.
3. Select target account and the app will make the rest.
4. Edit other options if you want to.
5. Save the target transaction.
6. You will see transfers amount at the main screen.



The screenshot shows the 'New' transaction creation dialog. It includes fields for Date and time (set to Fri, Feb 23, 2018, 1:18 PM), Value in the transaction currency (set to ± 0), and a numeric keypad for entering the amount. A green circle highlights the numeric keypad where the amount '2300' is being entered.

Date and time	New	New
Fri, Feb 23, 2018	1:18 PM	
Value in the transaction currency	± 0	

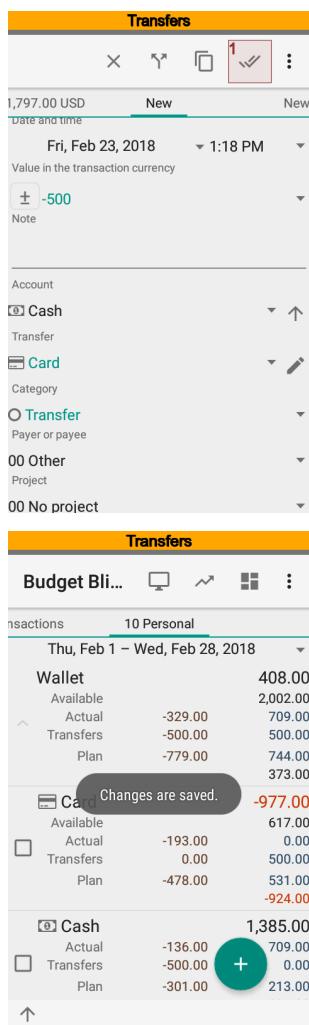
2300

The image consists of three vertically stacked screenshots of the BudgetBlitz software interface, specifically the 'Transfers' screen.

**Screenshot 1:** Shows the initial state of the transfer creation form. The transaction amount is set to 1,797.00 USD. The date is Fri, Feb 23, 2018, and the time is 1:18 PM. The value in the transaction currency is ± -500. The note field is empty. The account dropdown shows 'Cash' selected. The category dropdown shows '00 None' selected. Other options listed include '00 Other', '00 No project', and '00 No person'.

**Screenshot 2:** Shows the transfer creation form after a transfer has been added. The transaction amount is still 1,797.00 USD. The date is Fri, Feb 23, 2018, and the time is 1:18 PM. The value in the transaction currency is ± -500. The note field is empty. The account dropdown shows 'Cash' selected. The category dropdown now shows '1' selected. The other categories remain the same.

**Screenshot 3:** Shows the transfer creation form after two transfers have been added. The transaction amount is still 1,797.00 USD. The date is Fri, Feb 23, 2018, and the time is 1:18 PM. The value in the transaction currency is ± -500. The note field is empty. The account dropdown shows 'Cash' selected. The category dropdown shows 'Card' selected. The other categories remain the same.



At this moment source and target transactions are not connected to each other. Do not forget to edit both ones in future.

## 8.5 Recurring Transactions

Many transactions happen with some frequency. Usually recurring transactions are planned but sometimes actual too.

You can establish a custom frequency for recurring transactions.

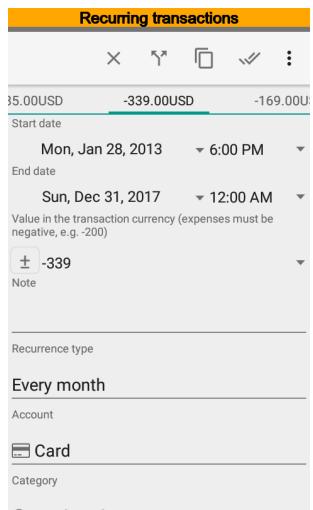
Recurring transactions			
Budget Bl...			
Transactions	10 Personal		
Fri, Dec 1 – Sun, Dec 31, 2017			
Wallet	385.00		
Available	1,909.00		
Actual	-314.00	677.00	
Plan	-746.00	711.00	
		350.00	
Card	-1,410.00		
Available	114.00		
Actual	-184.00	0.00	
Plan	-458.00	508.00	
		-1,360.00	
Cash	1,795.00		
Actual	-130.00	677.00	
Plan	-288.00	203.00	
		710.00	



Recurring transactions			
Budget Bl...	Types of portfolios		
Transactions	Portfolios of accounts		
Fri, Dec 1	Accounts		
Wallet	Categories		
Available	Projects		
Actual	Payers and payees		
Plan	Persons and units		
Card	1 Recurring transactions		
Available	Currencies		
Actual	Exchange rates		
Plan	sources		

Recurring transactions			
Recurring trans...			
10 Personal			
Active			
Every month	-746.00		
Wallet, USD	711.00		
Thu, 5/25/2017 - 12/31/2017	508.00		
Salary, wages			
Thu, 5/25/2017 - 12/31/2017	203.00		
Salary, wages			
Mon, 1/28/2013 - 12/31/2017	-339.00		
Meals at home			
Mon, 1/28/2013 - 12/31/2017	-169.00		
Meals out			
Sun, 1/27/2013 - 12/31/2017	85.00		
Clothes, footwear and accessories			
Sun, 1/27/2013 - 12/31/2017	-85.00		
Clothes, footwear and accessories			





# CHAPTER 9

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## Account Settings for Notifications Import

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### 9.1 Identity Choosing

You have to put an identity at the account card before import SMS or push notifications. This will ensure detection of an account for a transaction. Usually financial institutions put last four digits of a card number to a notification. So use them as a card identity.

For a example, for the SMS

```
VISA1234: 08.08.13 14:05 payment 500.00 USD. balance 1000.00 USD.
```

you should choose VISA1234 as a card identity. Some financial institutions do not put digits of an account or card number into notifications. For example, in the SMS

```
Transaction >> -600 USD. Atm-nyc-001
```

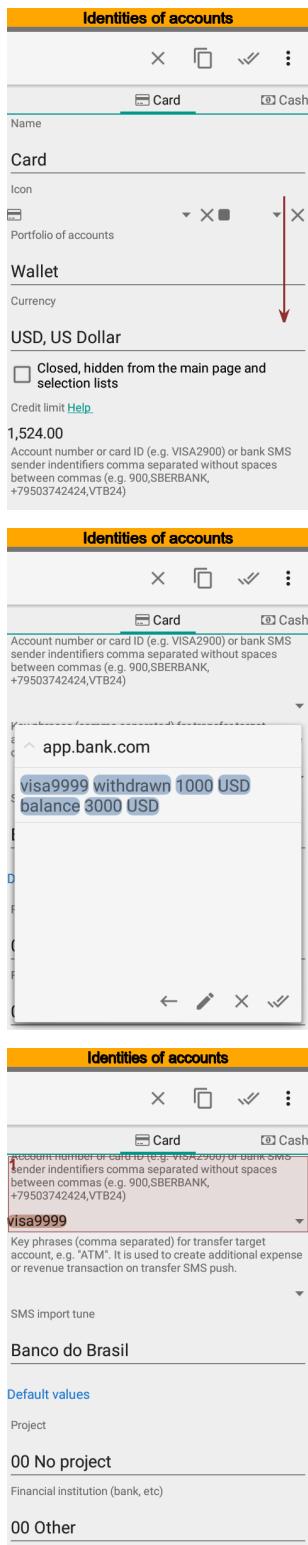
there is no way to find out an identity. Well, in that case you should use sender name or number. For example, short number for Sberbank is 900. For push notifications sender is a package identity. For example, ru.rocketbank.r2d2 is the package identity for RocketBank.

Open the card of an account in order to setup identity. Press  and select identity from a financial institution message. Put the identity by hands if you want to use sender or package identity.

Also do not forget to select an import tune for your financial institution.

The screenshots illustrate the BudgetBlitz application's interface for managing accounts:

- Top Screenshot: Transaction Overview**  
Shows a transaction history from Friday, Dec 1 to Sunday, Dec 31, 2017. The table includes columns for Account Type, Available, Actual, Plan, and Amount. A green circle with a plus sign is located in the bottom right corner.
- Middle Screenshot: Identity Selection**  
A modal window titled "Identities of accounts" lists various identity types. The "Accounts" option is highlighted with a red box. Other options include Types of portfolios, Portfolios of accounts, Categories, Projects, Payers and payees, Persons and units, Recurring transactions, Currencies, and Exchange rates.
- Bottom Screenshot: Accounts List**  
A list of accounts under the "Wallet" category. The "Card" account is highlighted with a red box. Other accounts listed are "Card" and "Cash". A green circle with a plus sign is located in the bottom right corner.



## 9.2 Key Phrase Choosing for Transfers

The app Budget Blitz for Android can create transfer transactions based upon financial institution messages. For example, when you have an SMS

VISA1234: 08.08.13 14:05 cash withdrawal 200.00 USD. ATM 10010001 bal 500.00 USD.

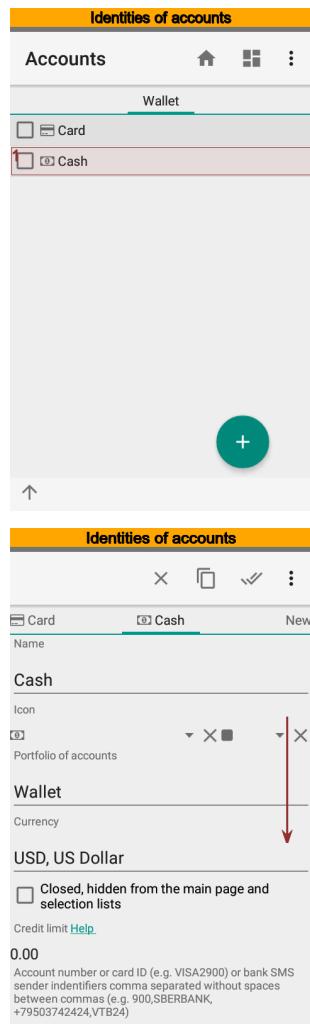
then the app is able to create expense transaction for the VISA1234 account and revenue transaction for a cash account. All you need is to set key phrases for the cash account. The app will use this key phrases to find out the one. For example, key phrases above may be one of “cash withdrawal” or “ATM”.

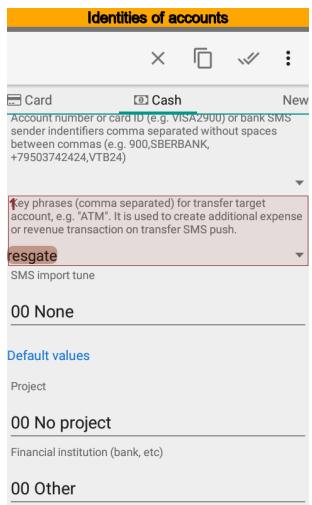
---

**Note:** It is also necessary to ensure the app is able to identify a transaction as transfer, see [Advanced Import SMS and Push Notifications Setting](#) (page 45).

---

Open the card of an account in order to setup key phrases. Press **Key phrases ▾** and select ones from a financial institution message. Also put key phrases by hands if you want to.





Usually accounts having notifications have empty *Keywords* property and cash accounts have empty *Number* property vice versa. But there are rare cases when both ones are used. See [Rocketbank](#) notifications import setting.



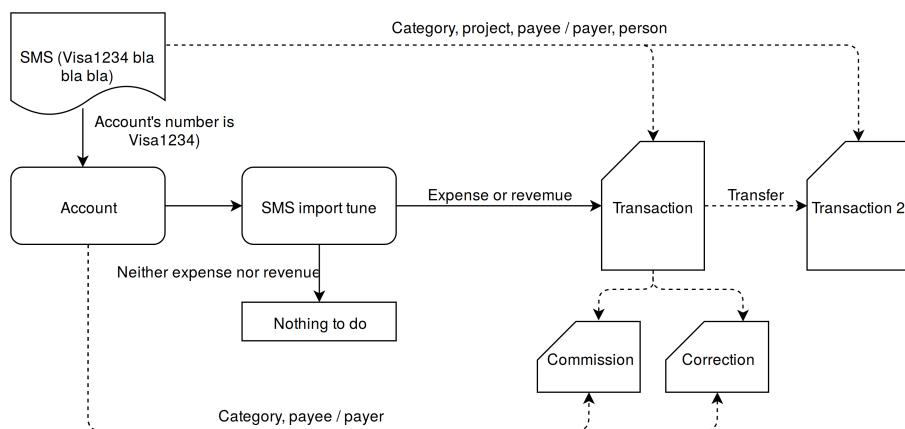
# CHAPTER 10

## Advanced Import SMS and Push Notifications Setting

### 10.1 Notifications Detection Algorithm

The import tune ensures the process of SMS and push notification detection. Exactly import tune controls type of transaction, revenue, expense or transfer, is balance required or not, and so on.

You can see the algorithm of notifications detection at the picture below.



When new notification arrived then the app tries to detect an account. It uses identities from the [Accounts](#) directory. Since single account found the app loads connected import tune.

Further the app classifies transaction, revenue, expense, or transfer, based on the import tune. While transaction is transfer the app tries to find a target account. Now it uses key phrases from the [Accounts](#) directory. Since single target account found the app makes a target transaction in order to complete transfer.

Next stage is to select dimensions. The app tries to find a category, payer or payee, project, person based on there key phrases. Default values is used when no value found out.

Finally the app calculates amount and balance. Additional commission or correction transaction can be made or currency rate calculated when balance from notification is not equal to the app one. It depends on a context and transaction currency.

Sometimes notifications arrive in a wrong order not like a real transactions done. The app creates balance correction transactions in that case until the order becomes correct. The app will remove redundant corrections as far as possible after the order becomes correct.

### Example

1. 13.04.2016, 10:00, balance = 1000 USD

The app got messages, sequence is invalid, correct one is 4, 3, 5, 2.

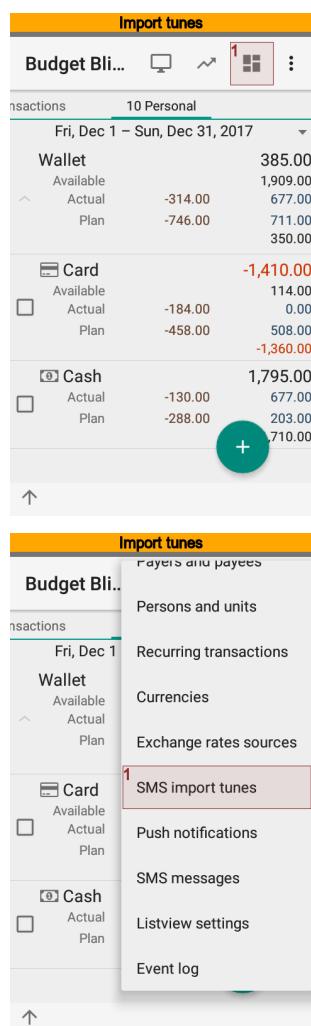
2. 13.04.2016, 15:00, expense = -50 USD, balance = 500 USD, → automatic correction = -450 USD
3. 13.04.2016, 15:05, expense = -90 USD, balance = 800 USD, → automatic correction = +390 USD
4. 13.04.2016, 15:10, expense = -110 USD, balance = 890 USD, → automatic correction = +200 USD
5. 13.04.2016, 15:15, expense = -250 USD, balance = 550 USD, → automatic correction = -90 USD

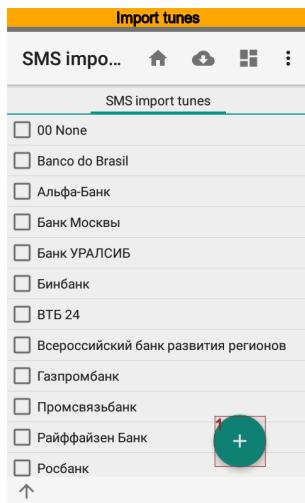
The app got message that starts correct sequence.

6. 13.04.2016, 15:20, expense = -100 USD, balance = 400 USD, → automatic correction = 0 USD, automatic corrections 2 — 5 removed

## 10.2 New Custom Import Tune

At this moment Budget Blitz for Android has more than 160 ready to use import tune for world wide financial institutions. It is not to match of course. But you can create an import tune by yourself with little effort. It is very easy to do.





*Name* for new setting can be different. It would be nice to make a name the same as financial institution.

*Restriction by sender* is only used in quite unique cases when the app is not able to identify account. That restriction fires before the app looking for an account by identity making list of accounts shorter.

Let the app has two accounts, for example

1. RocketBank, the identity is ru.rocketbank.r2d2, the import tune is RocketBank;
2. VTB, the identity is \*\*\*1234, the import tune is VTB.

RocketBank, the sender is ru.rocketbank.r2d2, sends notification about revenue as

```
Transaction >> +1 800 USD.
Source card is «VTB ***1234»
```

There is no identity in this notification but there is the transfer source account number. Without restriction by sender the app can not find the RocketBank account, because both accounts RocketBank and VTB are suitable.

Since the restriction is on, the app finds RocketBank import tune by sender ru.rocketbank.r2d2. Only RocketBank account uses that setting, so the app selects RocketBank account correctly.

The basic options of the import are established by key phrases. An option may have one or more comma separated key phrases.

*Revenue and expense key phrases* define transaction sign. The import is not possible when sign is undefined.

*Transfer key phrases* indicate to the app two transactions instead one required. The transfer direction depends on the transaction sign.

Let the setup be, for example, as:

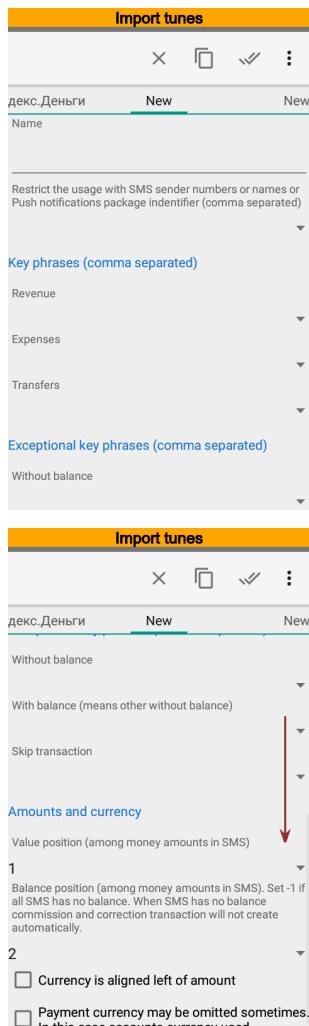
1. Revenues key phrases: "cash deposits,credit"
2. Transfers key phrases: "cash deposits"
3. Account Card identity: Visa2900
4. Account Cash key phrases: "ATM"

Bank sends notification:

```
Card Visa2900. Cash deposits 200.00 USD ATM. Balance: 2740.26 USD. 25/03/14,
→15:00:00.
```

As a result, the app will create two transactions:

1. Revenue transaction for Card account;
2. Expense transaction for Cash account.



Sometimes certain notifications have a balance and certain have not. Special key phrases help the app to understand when is case to calculate balance and when is not.

Sometimes notification is for information only but contains revenue or expense key phrases. *Skip transaction* key phrases makes possible to cancel import.

### Example

1. Revenues key phrases: “cash deposits,credit”
2. Skip transaction key phrases: “error”
3. Account Card identity: Visa2900

Bank sends notification:

```
Card Visa2900. Cash deposits 200.00 USD ATM. Balance: 2740.26 USD. An error  
occurred. 25/03/14, 15:00:00.
```

As result, the app will not make a transaction. And it is the case, because ATM have made a money back not a cash deposits.

*Amount position among digital values* is the most probable place of the amount. Final decision is up to the app.

*Balance position among digital values* is the most probable place of the balance. Final decision is up to the app too.

Put -1 when where is no balance in notifications at all.

The app skips all notification without balance when *Balance position among digital values* is not equal -1. But you can specify key phrase to underline when is app have to expect balance and when have not to.

Transaction amount and balance are used to calculate currency rate, commission, and correction.

Near the money amount of transaction should be placed a currency. Left of or right of, it does not matter. Currency names and keywords are the glue for the app find it out.

Certain financial institutions not always put currency in notifications. Use *Payment currency may be omitted sometimes* in that case and the app will use the currency of account.



# CHAPTER 11

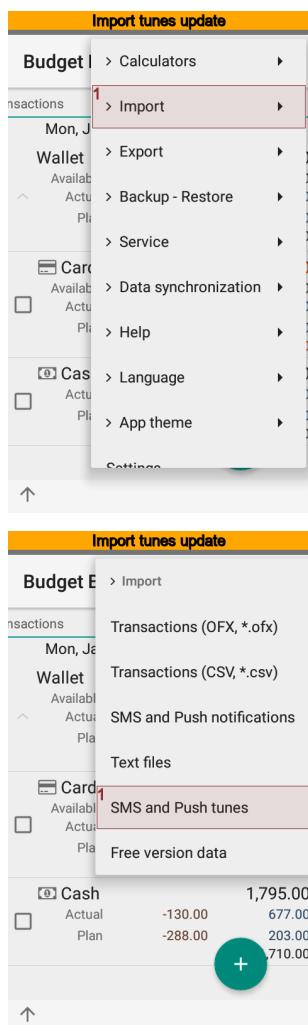
## Data Import

### 11.1 Notification Import Tunes

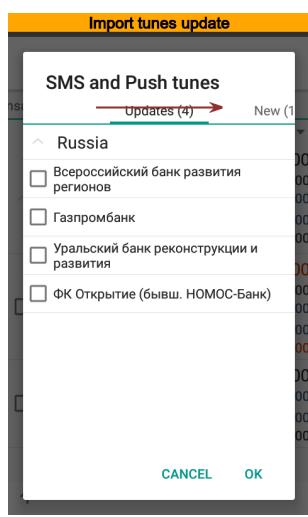
Notification import tunes have the main role in the notifications import. Once financial institution changes notification structure the import tunes should be changed too. For that case you can download update or modify tunes by yourself, see chapter *Advanced Import SMS and Push Notifications Setting* (page 45).

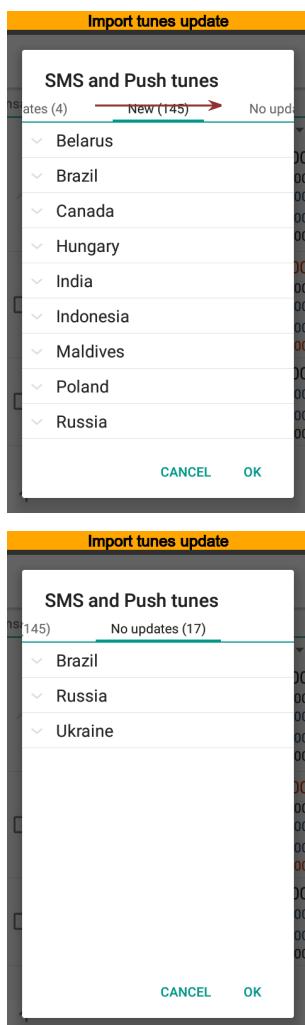
The screenshot shows a software interface titled "Import tunes update". At the top, there are tabs for "Budget Bli...", "Transactions", and "10 Personal". The date range is set from "Mon, Jan 1 – Wed, Jan 31, 2018". The table below displays transaction details for three categories: Wallet, Card, and Cash.

Category	Type	Available	Actual	Plan	Total
Wallet	Available	385.00			385.00
	Actual	-280.00	677.00		
	Plan	-746.00	711.00	350.00	
Card	Available	-1,410.00			-1,410.00
	Actual	-150.00	0.00		
	Plan	-458.00	508.00		-360.00
Cash	Available	1,795.00			1,795.00
	Actual	-130.00	677.00		
	Plan	-288.00	203.00	710.00	



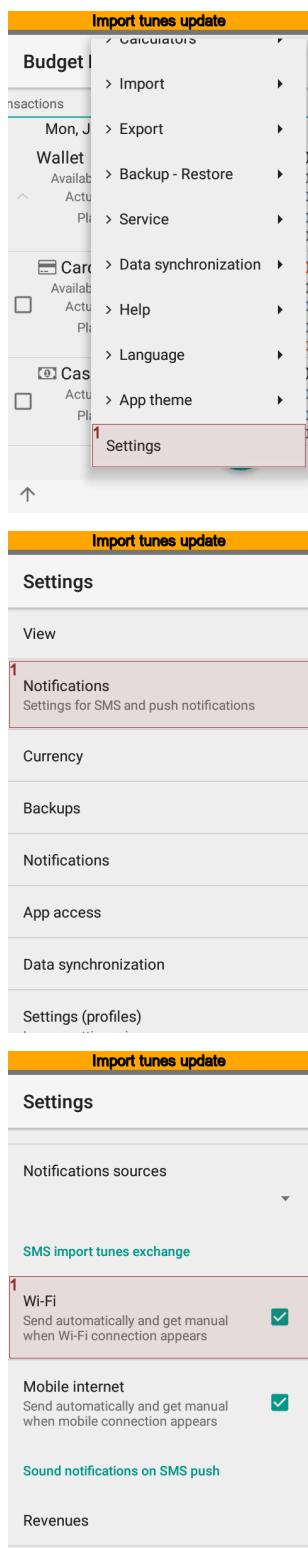
Select menu item *Actions → Import → SMS and Push tunes* to get updates.





The app will show available update, also it is possible to download new ones here.

Category	Type	Actual	Plan
Wallet	Available	1,909.00	
	Actual	-280.00	677.00
	Plan	-746.00	711.00
Card	Available	114.00	
	Actual	-150.00	0.00
	Plan	-458.00	508.00
Cash	Available		-1,360.00
	Actual	-130.00	677.00
	Plan	-288.00	203.00



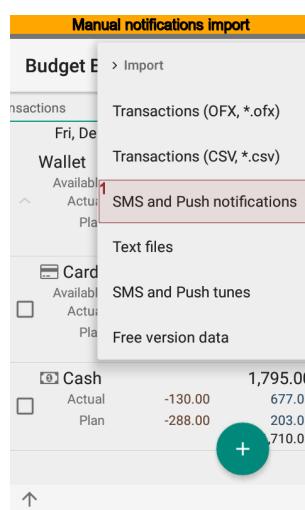
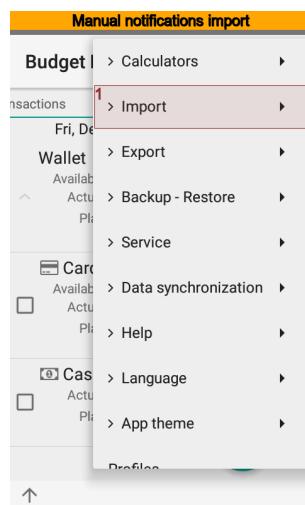
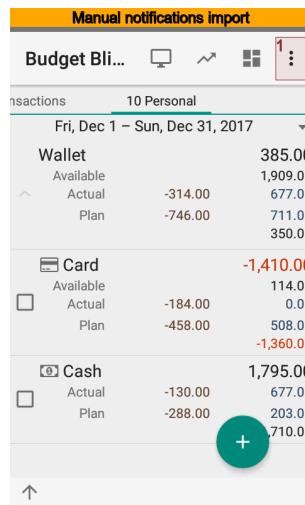
But maybe you will see nothing. Check the import tunes exchange is on at settings.

## 11.2 SMS and Push Notifications

The app Budget Blitz for Android imports SMS and push notifications by default. But it is possible to import certain notification by hands. To do that

1. Open the import dialog.

2. Select a required account. The account should have the identity and the import tune.
3. Select required notifications.
4. Press **Import** button.
5. Check transactions list for the result.
6. Use event log to view issues.



**Manual notifications import**

**SMS and Push notifications :**

Import settings SMS and...

The app imports new SMS automatically, therefore use the import to create initial balance or restore missed transactions

Account with card's number or ID (VISA2900 for example) or SMS sender ID

1

+ ■■■

10 Personal → Wallet

Card (visa9999 - Banco do Brasil)

Cash (- 00 None)

**Manual notifications import**

**SMS and Push notifications :**

Import settings SMS and...

The app imports new SMS automatically, therefore use the import to create initial balance or restore missed transactions

Account with card's number or ID (VISA2900 for example) or SMS sender ID

Card (visa9999 - Banco do Brasil)

Create additional transactions for transfers (will change balance of other accounts)

Delete actual transactions from the selected account

1 >

**Manual notifications import**

**SMS and Push notifications :**

IMPORT

Thu, 12/21/2017, 9:52 AM app.bank.com  
visa9999 withdrawn 1000 USD balance 3000 USD

Thu, 12/21/2017, 9:31 AM app.bank.com  
visa9999 withdrawn 1000 USD balance 3000 USD

**Manual notifications import**

**SMS and Push notifications :**

Transactions Event log

Fri, Dec 1 – Sun, Dec 31, 2017

USD

1.0000	-184.00	0.00
	-184.00	

Thu, 12/21/2017

Date	Description	Amount
Thu, 12/21/2017, 9:00 AM	Public transport	-8.00
		114.00

Tue, 12/19/2017

Date	Description	Amount
Tue, 12/19/2017, 5:00 PM	Meals at home	-25.00
		122.00

Tue, 12/19/2017, 9:15 AM

Date	Description	Amount
Tue, 12/19/2017, 9:15 AM	Pocket expenses	-3.00
		147.00

Sat, 12/16/2017

Date	Description	Amount
Sat, 12/16/2017, 11:00 AM		-85.00

**Manual notifications import**

**SMS and Push notifications :**

Transactions Event log

Thu, Dec 21, 2017

Date	Type
Thu, 12/21/2017, 11:15 AM	SMS
	SMS has no transaction
Thu, 12/21/2017, 11:15 AM	SMS
	Unknown sign of the transaction
Thu, 12/21/2017, 11:15 AM	SMS
	Transactions value and currency value are equal 0
Thu, 12/21/2017, 11:15 AM	SMS
[X]: visa9999 withdrawn 1000 USD balance 3000 USD	
Thu, 12/21/2017, 11:15 AM	SMS
	Amount is not the same (+/- 5%)
Thu, 12/21/2017, 11:15 AM	SMS
[X]: visa9999 withdrawn 1000 USD balance 3000 USD	
Thu, 12/21/2017, 11:15 AM	SMS
	Amount is not the same (+/- 5%)

## 11.3 CSV files

During **CSV** file import the app can create new accounts, categories, payers or payees, projects, and persons. It depends on your choice.

The column separator can be one of “;”, “,”, “|”, “/”, “””. File must be UTF-8 encoded.

The first row of the file must have column names in English, case does not matter. Since column names are placed at another row they are valid for next rows.

Table 1: CSV file format

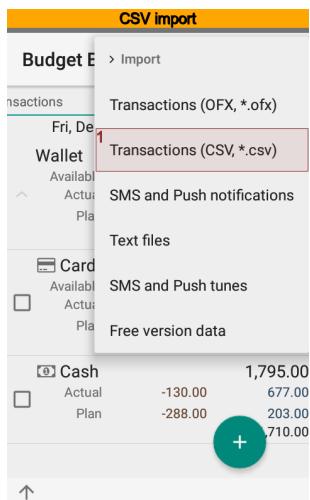
Names	Mandatory	Comment
id	No	Transaction identity, the app will search existed transaction if not empty.
account	Yes	Name, number, or identity of the account
date	No	Date of the transaction, supported formats: “dd’d’MM’d’yyyy” (for example, 01d01d2017), “yyyy’d’MM’d’dd” (for example, 2017d01d01), “yyyyMMddHHmmss”, “yyyyMMddHHmm”, “yyyyMMdd”, “yyyy-MM-dd HH:mm:ss”, “yyyy-MM-dd HH:mm”, “yyyy-MM-dd”, “dd-MM-yyyy HH:mm:ss”, “dd-MM-yyyy HH:mm”, “dd-MM-yyyy”, “dd.MM.yyyy HH:mm:ss”, “dd.MM.yyyy HH:mm”, “dd.MM.yyyy”
time	No	Time of the transaction, supported formats: “HH:mm:ss”, “HH:mm”, “HH-mmss”, “HHmm”
amount	Yes	Transaction amount, can have a currency and digits delimiters, fixed point should be point or comma
rate, exchange rate	No	Transaction rate
currency	No	Transaction currency, account currency is used when empty
payer, payee, contractor	No	Name of the contractor, the app will analyze current row keywords when empty
category	No	Name of the category, the app will analyze current row keywords when empty
project	No	Name of the project, the app will analyze current row keywords when empty
person, unit	No	Name of the person, the app will analyze current row keywords when empty
notes, note	No	Note
planned, plan	No	Actual (0) or planned (1), default value is 0
detail, split	No	Transaction (0) or detail of transaction (1). default value is 0

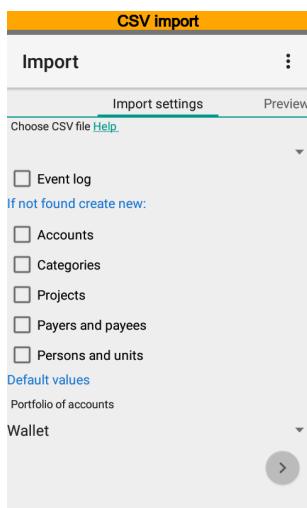
The row is canceled when mandatory columns are empty.

If the row contains not all mandatory columns, but amount column is not empty, then app creates split transaction. This is like column detail contains value 1.

To start the import

1. Open the import dialog.
2. Select a file.
3. Press **Next** and select required rows.
4. Press **Import** button.
5. Check transactions list for the result.
6. Use event log to view issues.

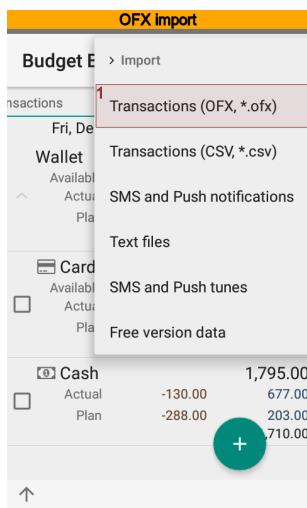


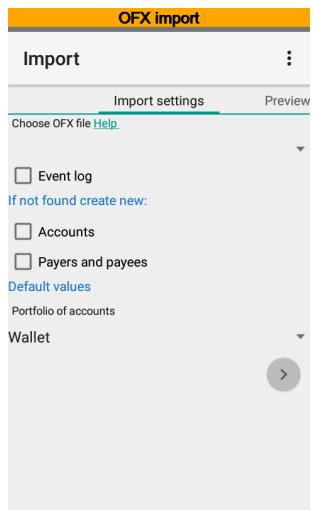


## 11.4 OFX files

Budget Blitz for Android supports import of **OFX** files meet specification starting from 2.1.1.

1. Open the import dialog.
2. Select a file.
3. Press **Next** and select required rows.
4. Press **Import** button.
5. Check transactions list for the result.
6. Use event log to view issues.





# CHAPTER 12

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## Teamwork

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### 12.1 Introduction

Budget Blitz for Android ensures the collaborative accounting of revenues and expenses. Here are a few examples:

1. Full synchronization between devices;
2. Collaborative financial accounting restricted by selected accounts, projects, persons, payers, payees, or even categories;
3. Collecting data on a single device, in a case of, for example, parents track children expenses.

Any device can become an exchange node, see [exchange node](#) and receive or transmit changes. Each exchange node can communicate with other ones.

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**Note:** Free version can transmit messages only. The Pro version has no restrictions.

---

The app has flexible settings to control exchange. For example, you can allow to accept only new transactions from one node, and forbid modified ones. Each node has own settings.

Messages between nodes are encrypted in order to improve safety. For each node you can specify own password that will be used for encryption and decryption of a transmitted information.

Collaboration does not require Dropbox account or other ones.

### 12.2 Getting Started

#### 12.2.1 Initial Database

Suppose that Alice and Bob want to use a collaborative financial accounting. Then, they need to decide what is the best suited case:

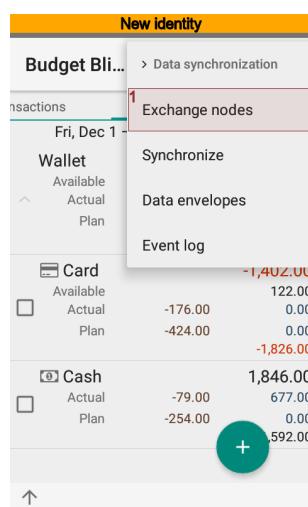
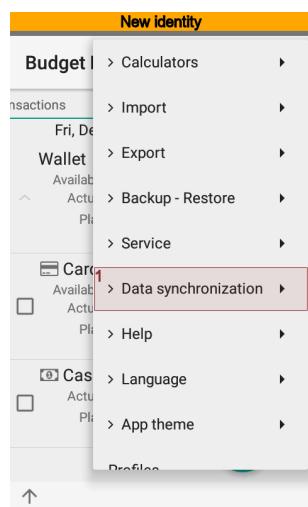
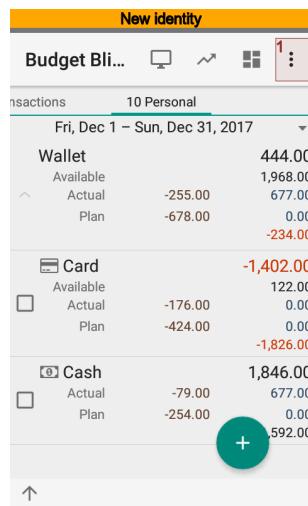
1. At the beginning Alice and Bob will have similar database.
2. Alice and Bob already use the app, they do not want to combine their databases, and plan to synchronize selected accounts only.

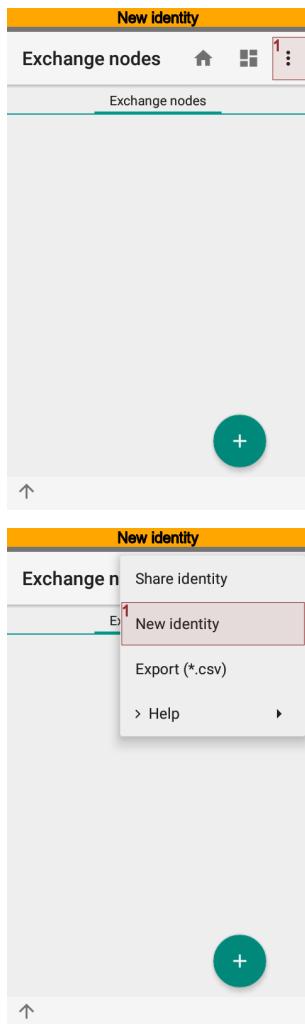
For the first case Alice or Bob, let it be Alice, makes a backup. Further, Alice gives the backup to Bob and he restores database on his device. Now Alice and Bob have similar database. The teamwork requires databases have different identities. Hence, Bob generates new identity for his database.

---

**Note:** It is required to make a new database identity when database restored from backup of another teamwork member.

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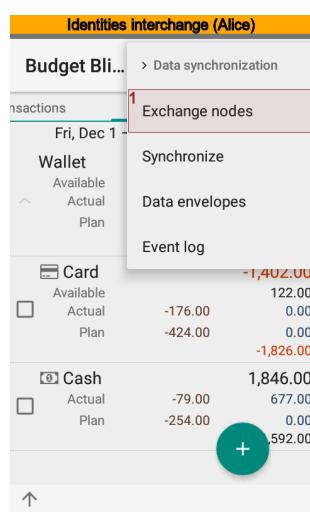
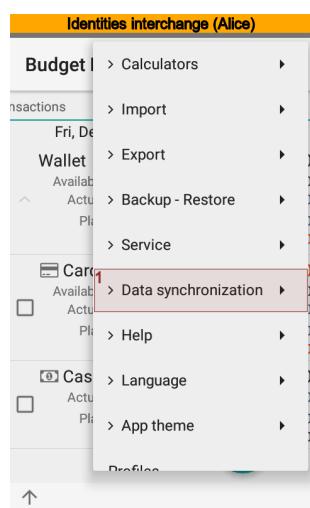
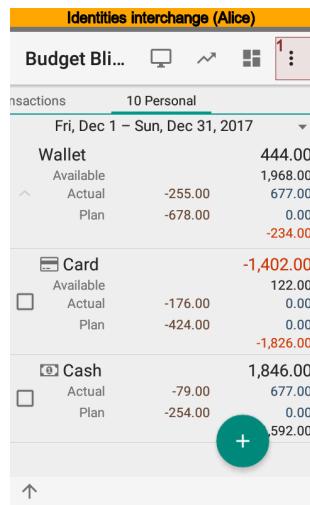


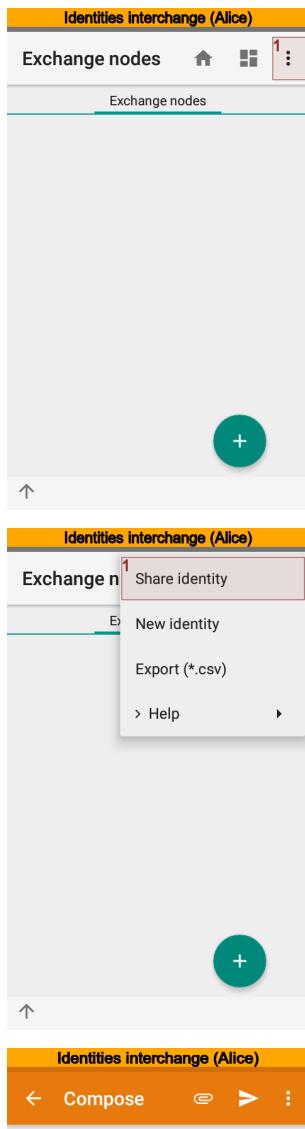
Now Alice and Bob are ready for next steps.

In the second case there is no need to preliminary actions. Alice and Bob are ready for next steps at once.

### 12.2.2 Identities Interchange

The most important step under preparing teamwork is an identities interchange. To do that Alice opens **Exchange nodes** directory using *Actions → Data synchronization → Exchange nodes* menu. Then, Alice presses *Share ID* and sends identity to Bob by email.





From no-reply@interblitz.biz

To

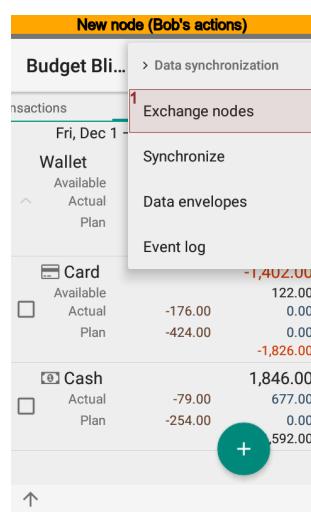
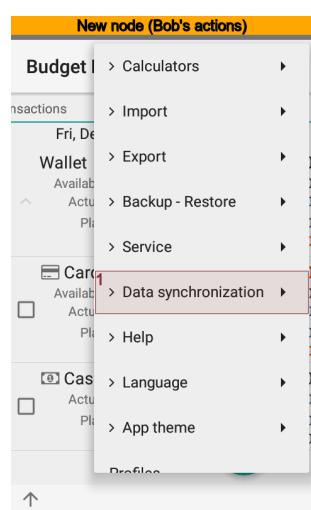
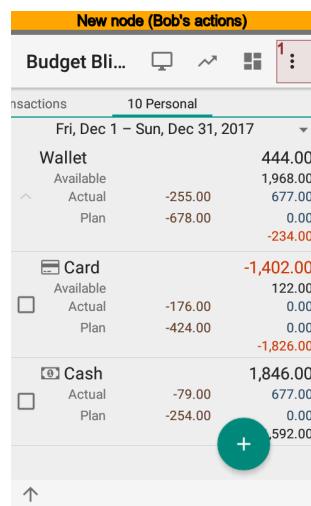
Budget Blitz: New exchange node

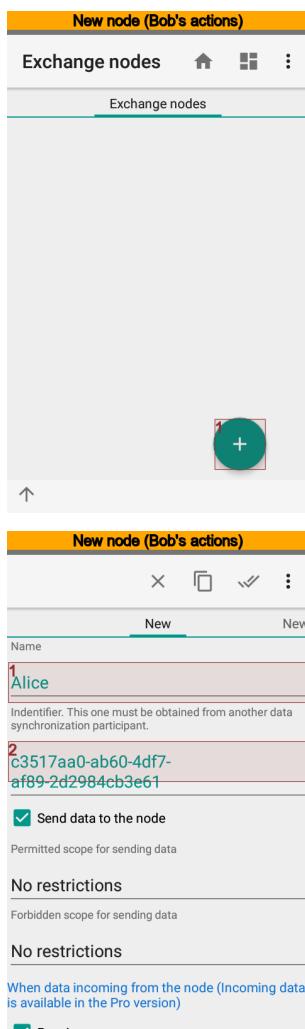
Please copy ID  
ec98d7de-92ff-4d7d-84a8-  
bbc18fe8c674 to the new node's  
code without any changes. Do not  
forget to send back your ID (menu:  
Data synchronization - Exchange  
nodes - Share ID).

After that you will be able to  
exchange data.

Please use node's passwords to

Bob receives the message, creates new exchange node putting the name and identity from the message. After that he sends his own identity to Alice.

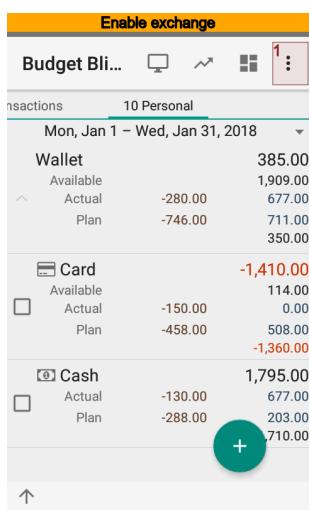


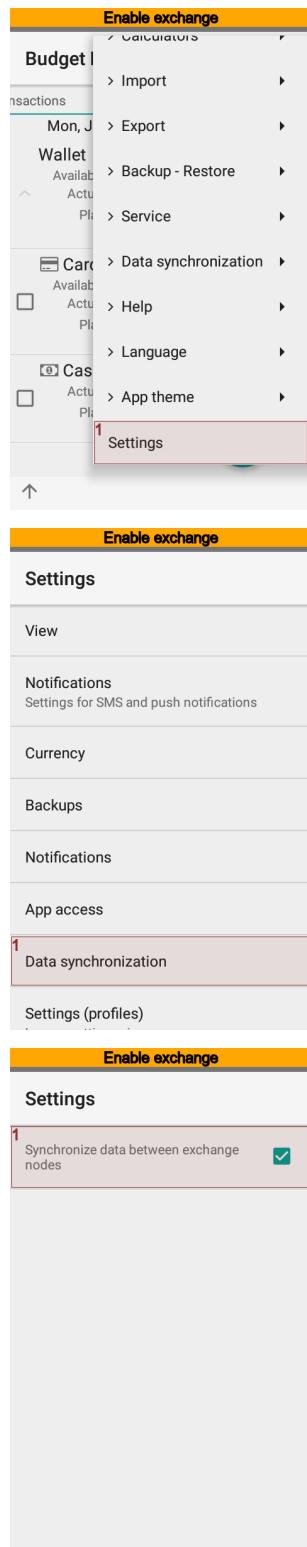


Now, there is a turn of Alice to receive Bob message. She creates new node and puts identity from the message of Bob.

## 12.3 Setting Teamwork On

When identities interchange completed, Alice and Bob set synchronization on at the app settings.





Now the app sends all changes from the database of Alice to the database of Bob and vice versa. The app synchronizes changes every five minutes when Wi-Fi or mobile network is on. Synchronization is off when device falls asleep or network is off. This ensures to save network traffic and battery power.

This is how exchange works:

1. Since exchange started the app checks whether screen is on or not.
  1. Next time to start synchronization is 5 minutes after, if screen is on.
  2. Next time to start synchronization is 60 minutes after, if screen is off.

3. Synchronization is canceled when phone falls asleep.
2. Since main screen started the app checks next time of synchronization.
  1. Nothing happen if next time is within 10 minutes.
  2. Synchronization starts if next time is greater than 10 minutes.
3. Synchronization is off when there is no network until network is on.

You can run synchronization by hands if you want to.

## 12.4 How Synchronization Works

The app Budget Blitz for Android stores every directory items and transactions changes. Node sends changes that occur starting from the time last message sent or node created itself. The sequence of exchange matters. Alice sends changes to Bob. Then Bob sends changes to Alice and so on. The node of Alice will await response from the node of Bob. Thus, the node of Alice will send no anymore messages until response from the Bob coming.

The app synchronizes directories using rules below:

1. syncing by the unique id;
2. syncing by key phrases;
3. syncing by the name.

When syncing fails the app goes to the next step. The app will create new item or use default value if all steps fail. You can edit default values at the node card.

Transactions sync by the unique id only.

## 12.5 Advanced Settings

Alice and Bob can restrict the amount of information transmitted. There are two types of constraints:

1. permitted data scope;
2. forbidden data scope.

Scopes specified in the **Data scopes** directory. It is possible to specify any combination of accounts, categories, payers, payees, projects, and persons.

Forbidden scope has a higher priority, when the permitted and forbidden data scopes contain same item simultaneously.

Transactions, recurring transactions, and directory items to transmit are based upon data scopes.

Alice and Bob can restrict items to receive. For example, Alice can refuse all new, modified or removed items. Another case is to specify certain type of directory to refuse.

## 12.6 Data Transfer Settings

To improve the security of data transmission Alice should specify a password that will be used to encrypt messages between exchange nodes. Alice's password must match the Bob's one.

Alice also should indicate what type of communications is used for messaging with Bob. Available types are Wi-Fi and mobile network.

## **12.7 Default Values**

Alice and Bob can have a different app content. For example, Bob has a long time using Budget Blitz for Android, and Alice has just installed the app. Bob can create transaction and specify, for example, a project that Alice does not have. When a message from Bob arrives, Alice's node will create a transaction, but could not find a proper project. In that case the app will use a default value Alice set to the node of Bob.

## **12.8 Moving Database to a New Device**

Suppose that Alice decides to move onto new phone. Then, Alice should follow steps:

1. Set synchronization off for an old device.
2. Make backup.
3. Restore backup on a new device.
4. Set synchronization on for a new device.

# CHAPTER 13

## Reports

The top menu is the place where reports are available. Each report has the options to filter, grouping and saving of settings. Use the bottom sheet to manage a report. When you open a report from the transactions list or another report filter inherits.

This screenshot shows a budget report for the period from Fri, Dec 1 to Sun, Dec 31, 2017. The report is titled 'Budget Bl... 1'. It displays three categories: Wallet, Card, and Cash. Each category has three rows: Available, Actual, and Plan. The 'Card' section includes a green circle with a '+' sign at the bottom right.

Category	Available	Actual	Plan
Wallet	444.00	-255.00	-508.00
Card	1,968.00	677.00	0.00
Cash	122.00	0.00	0.00

This screenshot shows the 'Reports' sidebar. It lists several report types: Schedule of payments, Plan vs. actual, Turnovers, Totals and turnovers, Planned totals and turnovers, Debts, Plan implementation, Distribution of turnovers, Changes in turnovers, and Changes in totals. Each item has a small icon next to it.

The first screenshot shows a report titled "Debts" for "10 Personal" from "Fri, Dec 1 – Sun, Dec 31, 2017". It lists two entries: "Wallet" (254.00) and "Loans" (254.00). A red arrow points upwards from the bottom of this screen towards the second screenshot.

The second screenshot shows the same report structure, but includes additional controls at the bottom: a green circular button with a white plus sign, a small upward arrow, and a "Listview setting" option. Below these are dropdown menus for "Portfolios of accounts", "Categories", and "Filter: Planned; Transaction types".

The third screenshot shows a sidebar menu with various categories: Categories, Projects, Payers and payees, Persons and units, Types of portfolios, Portfolios of accounts, Accounts, Currencies, Transactions, Days, Weeks, Months, Quarters, Six months, Years, and Categories. The "Categories" item is highlighted with a red box. At the bottom is a "Filter: Planned; Transaction types" dropdown.

You can always drill down from row of report to look at source transactions.

Also it is possible to make shortcuts for having fast access to a report with predefined settings. Once you have created shortcuts, they are available from the Android launcher screens.

## 13.1 Payment Schedule

The report is intended to display upcoming payments planning. The schedule contains planned and actual transactions of the current time range. Hence, you can see not only planned but remunerated transactions as well.

**Schedule of payments**

Schedule of pay... + :

10 Personal  
Thu, Dec 28, 2017 – Thu, Jan 25, 2018

	Actual	Planned
Wallet	-508.00	<b>-64.00</b>
Thu, December 28, 2017	-508.00	<b>-64.00</b>

**Plan vs. actual**

Plan vs. actual + :

10 Personal  
Fri, Dec 1 – Sun, Dec 31, 2017

	Actual	Planned
Wallet	-746.00	711.00
Clothes, footwear and accessories	-255.00	677.00
Household goods	-85.00	0.00
Loans	0.00	254.00
Meals at home	-67.00	0.00
Meals out	-34.00	0.00

**Turnovers**

Turnovers + :

10 Personal  
Fri, Dec 1 – Sun, Dec 31, 2017

	Actual	Planned
Wallet	677.00	-255.00
Household goods	-85.00	422.00
Loans	254.00	0.00
Meals at home	-67.00	0.00
Meals out	-34.00	0.00
Pocket expenses	-10.00	0.00
Public transport	-34.00	0.00
Rental income	423.00	0.00
Sports	-25.00	0.00

## 13.2 Plan vs. Actual

The report is intended to show deviations between planned and actual transactions of the current time range. Top row is an actuals and next row is a plan. For example, you can see that there is unplanned credit transaction under **(Loans)** category, and planned amount under **(Clothes, footwear and accessories)** category is remunerated.

You can get the report grouped by dimensions and periods as well.

## 13.3 Turnovers

The report is intended to analyze aggregated turnovers of the current time range. For example, you can see that there are a credit transaction under **(Loans)** category, debit transaction under **(Pocket expenses)** one, and so on.

The report is able to show actual and planned transaction as well. The report displays actual transactions by default.

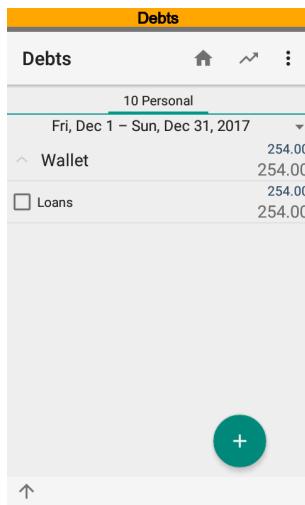
## 13.4 Totals and Turnovers

The report is intended to analyze opening, closing balances and aggregated turnovers of the current time range. The report is based on actual transactions only.

Totals and turnovers	
Totals and turno...	
10 Personal	
Fri, Dec 1 – Sun, Dec 31, 2017	
Wallet	22.00
-	-255.00
+	677.00
	444.00
	<b>-1,226.00</b>
Card	-176.00
-	<b>-1,402.00</b>
Cash	1,248.00
-	-79.00
+	677.00
	1,846.00
	+
↑	

Planned totals and turnovers	
Planned totals a...	
10 Personal	
Fri, Dec 1 – Sun, Dec 31, 2017	
Wallet	22.00
-	-763.00
+	677.00
	<b>-64.00</b>
	<b>-1,226.00</b>
Card	-515.00
-	<b>-1,741.00</b>
Cash	1,248.00
-	-248.00
+	677.00
	1,677.00
	+
↑	



## 13.5 Planned Totals and Turnovers

The report is intended to analyze opening, closing balances and aggregated turnovers of the current time range. The report is based on planned transactions only.

## 13.6 Debts

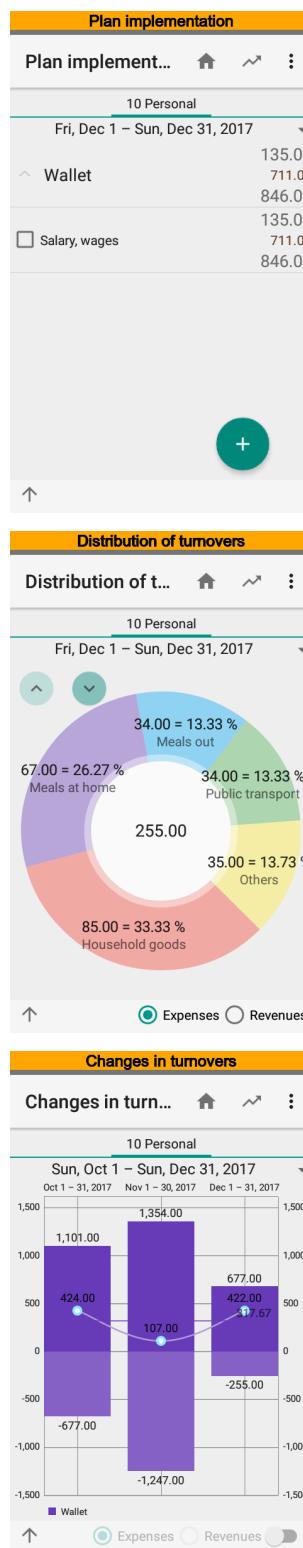
The report is based on transactions that contain categories having *Totaling (summary)*, *Revenue*, and *Expense* options are on. The report shows opening, closing balances and aggregated turnovers. Zero amounts are hidden.

For example, you can see that **Loans** category has no opening balance. During the time range there was a loan transaction. And there was no repayment because closing balance is equal to the credit amount.

## 13.7 Plan Implementation

The report is based on planned and actual transactions that contain categories having *Totaling (summary)* option is on, and one of *Revenue* and *Expense* options only is on. The report evaluates a total amount of planned transactions and deduct a total amount of actual transactions. **Plan implementation** shows opening, closing balances and aggregated turnovers. Zero amounts are hidden.

For example, you can see that **Salary, wages** category has the opening balance. Hence, it is not completed, i.e. actual amount is less than planned. Also it is expected an actual credit transaction. But there is no actual transaction yet.



## 13.8 Distribution of Turnovers

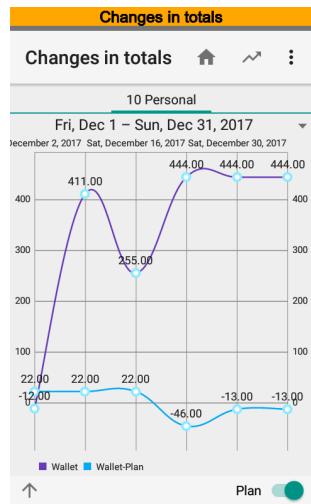
The chart is intended to analyze turnovers distribution by dimension and time ranges. You can view expenses or revenues separately. Rotate chart counterclockwise when names are not fully shown.

## 13.9 Changes in Turnovers

The chart is intended to analyze trends of turnovers. Positive part of the chart contains credits and negative part contains debits.

## 13.10 Changes in Totals

The chart is intended to analyze how totals change within the time range. At the same time it is possible to look at actual and planned totals.





# CHAPTER 14

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## Reminders

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Budget Blitz for Android can remind you about some important events based upon reports or transactions list. Reminders may be one-time or recurring. Using reminders you are able to:

- Customize notifications about no category transactions.
- Customize notifications about specific transactions.
- Customize warnings about plan and actuals difference.
- Customize warnings about any events you can find with reports.
- Run reports on a schedule.

---

**Note:** You can access to the report from notification using version Pro

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First of all you need to specify criteria for events that will produce notifications. To achieve that edit and save report setting having required filters and grouping, see *Report Settings and Shortcuts* (page 95).

As far as setting is ready make reminder for it using **Reminders** button or from **(Reminders)** directory.

---

**Note:** Beginning from Android 4.4 the accuracy of the reminders is +/- 15 minutes.

---

Let's take a look at example of creating a reminder about transactions with an empty category. On the home screen move to the transactions list.

The screenshots show the Reminders screen of the BudgetBlitz application. The top two screens display a summary of financial accounts (Wallet, Card, Cash) with their current balance, available balance, and actual transaction amount. The bottom screen shows a detailed list of transactions for September 30, 2018, categorized by time and type (e.g., USD, Cash, Card). A green '+' button is visible in the bottom right corner of each screen.

Account	Current Balance	Available Balance	Actual Transaction
Wallet	386.00	1,946.00	-369.00
Card	<b>-1,444.00</b>	116.00	-193.00
Cash	1,830.00	953.00	-176.00

Category	Amount
USD	931.00
Actual	-369.00
Total	1,300.00

Date	Time	Description	Amount
Sun, September 30, 2018	9:20 AM	Cash	-5.00
Sun, September 30, 2018	9:20 AM	Clothes, footwear and accessories	-52.00
Sat, September 29, 2018	9:00 AM	Card	-8.00
Sat, September 29, 2018		Public transport	116.00

Edit the filter so that transaction list has only ones with an empty category.

The image consists of three vertically stacked screenshots of the BudgetBlitz application.

**Screenshot 1: Reminders Screen**

This screen shows a summary of transactions for the period Sat, Sep 1 – Sun, Sep 30, 2018. The total balance is USD 931.00, with an actual amount of -369.00 and a budget of 1,300.00. Below this, a list of transactions is displayed:

- 9:20 AM, Cash: -5.00 (1,830.00)
- 9:20 AM, Cash: -52.00 (Clothes, footwear and accessories) (1,830.00)
- 9:00 AM, Card: -8.00 (Public transport) (116.00)

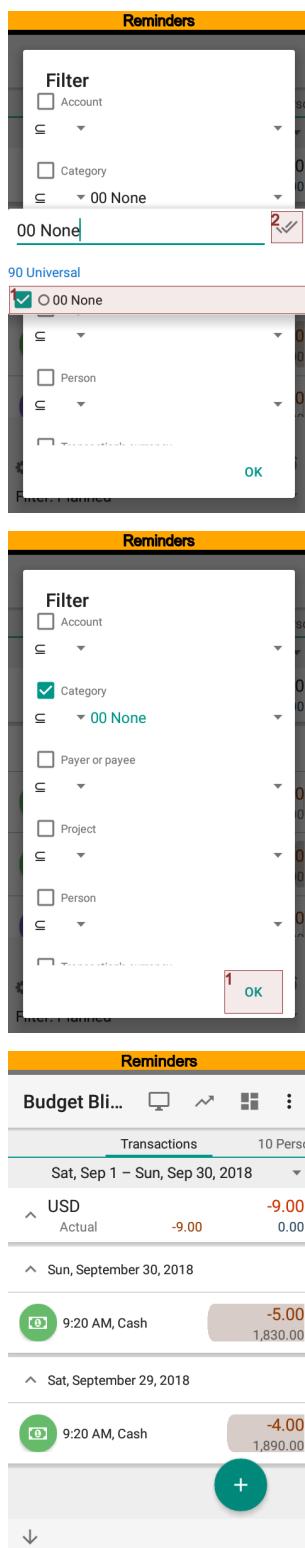
A green circular button with a '+' sign is located at the bottom right of the transaction list.

**Screenshot 2: Reminders Screen with Report Setting**

This screen is similar to the first one but includes a 'Report setting' section at the bottom. It shows the same transaction history and summary.

**Screenshot 3: Filter Dialog**

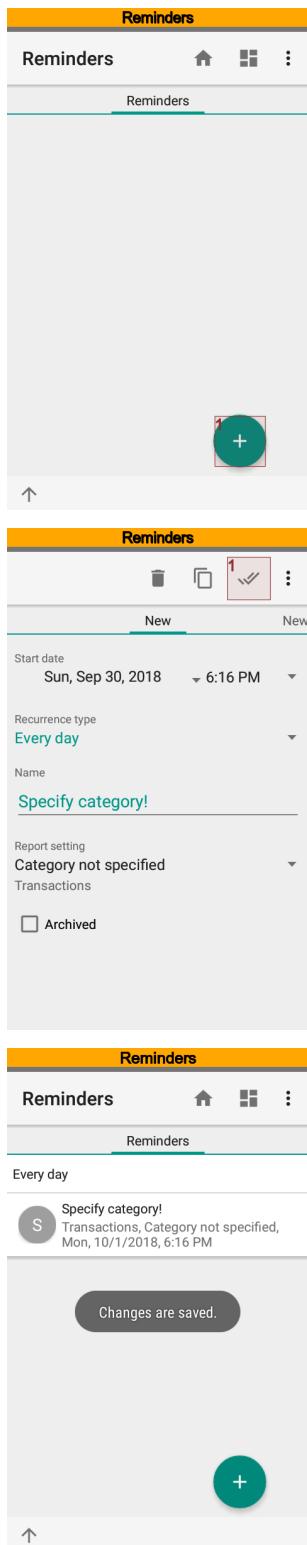
This is a detailed view of the 'Filter' dialog box. It includes fields for filtering by date and time, day of week, value in transaction currency, note, and a search bar. The 'OK' button is visible at the bottom right of the dialog.



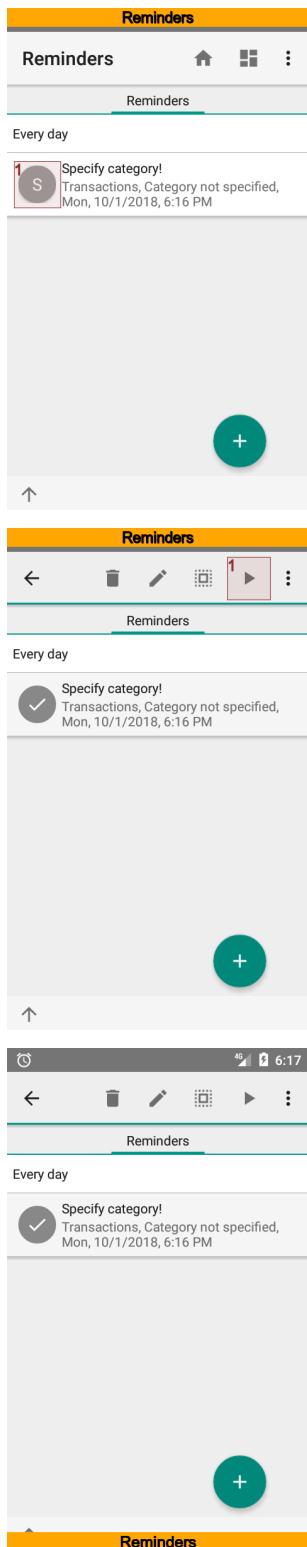
After the filter applied, transactions list has changed, it now contains only two items. Let's save the filter into report setting. Open bottom side for that and pressing on **Report settings ▾** create a new report setting. You can modify period of setting but now we leave it unchanged.

The first screenshot shows the Reminders section with a transaction list for Sat, Sep 1 – Sun, Sep 30, 2018. It includes a summary for USD showing Actual: -9.00 and 0.00. A transaction for 9:20 AM, Cash is listed with a value of -5.00 and a balance of 1,830.00. The second screenshot shows the 'New' reminder creation dialog with fields for Name (Category not specified), Filter (Category; Planned), Period (Current month), and Fixed period start date (Sun, Sep 30, 2018). The third screenshot shows the Reminders section again, with a notification bubble indicating 'Changes are saved.' above the transaction list.

Now let's create reminder base upon new report setting. Move to reminders list and make a new one. Specify date of beginning, time of running, recurrence type and a name. You will see the name in a notification that produced by reminder.



Reminder is ready, now we will test it. Select reminder and press **Run**. In the status bar you see notification about transactions with an empty category.



You can press on notification to preview list of transactions.

---

**Note:** Only Pro version allows moving to data of notifications.

---

Now you will see notification every day at the specified time when you have one or more transactions with an empty category.



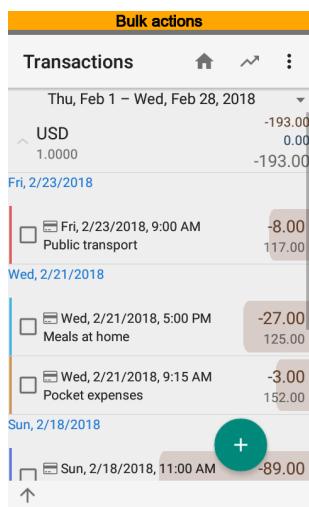
# CHAPTER 15

## Bulk Actions

Budget Blitz for Android admits to make actions under the set of objects. For example you can change a category in several transactions at once. Bulk actions are supported by any directories too.

### 15.1 Objects Selection

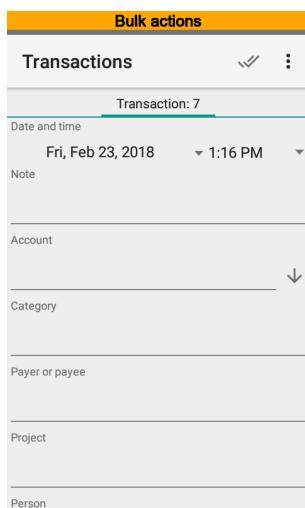
In the example below you can see multiply selection at the transactions list. Same actions can be done in any directory.



Open transactions list first of all. Then select required transactions. To select all transactions just select one and press **Select all** from the top menu.

## 15.2 Editing

Press **Edit** button to edit selected transactions. You will see the dialog that contains amount of objects and properties available to change. Modifications are applied only for changed properties.



## 15.3 Deleting

Press **Delete** to delete selected transactions. Since confirmed the app will delete selected items.

Bulk actions

Thu, Feb 1 – Wed, Feb 28, 2018

USD

1.0000	-193.00
	0.00

Fri, 2/23/2018

- Fri, 2/23/2018, 9:00 AM -8.00 Public transport 117.00

Wed, 2/21/2018

- Wed, 2/21/2018, 5:00 PM -27.00 Meals at home 125.00
- Wed, 2/21/2018, 9:15 AM -3.00 Pocket expenses 152.00

Sun, 2/18/2018

- Sun, 2/18/2018, 11:00 AM -89.00

Please, confirm

Delete selected items?

NO YES

Bulk actions

Thu, Feb 1 – Wed, Feb 28, 2018

USD

1.0000	-193.00
	0.00

Fri, 2/23/2018

Wed, 2/21/2018, 9:15 AM -3.00 Pocket expenses 152.00

Sun, 2/18/2018

- Sun, 2/18/2018, 11:00 AM -89.00

## 15.4 Filters

You can make a filter based on selected items. It is convenient when you want, for example, to see all transactions with the same dimensions as selected ones.

Press **Filter** to make a filter.

The screenshot shows two main sections: a transaction list and a filter configuration.

**Transaction List:**

- Header: Bulk actions, back arrow, red square icon, X, edit, delete, more options.
- Date range: Thu, Feb 1 – Wed, Feb 28, 2018.
- USD currency summary: 1.0000, -193.00.
- Transactions:
  - Fri, 2/23/2018: Public transport (-8.00), 117.00.
  - Wed, 2/21/2018: Meals at home (-27.00), 125.00.
  - Wed, 2/21/2018: Pocket expenses (-3.00), 152.00.
  - Sun, 2/18/2018: Sun, 2/18/2018, 11:00 AM (-89.00).

**Filter Configuration:**

- Header: Bulk actions, Filter, APPLY.
- Filter criteria:
  - Date and time:
  - Date and time:
  - Day of week:
  - Value in the transaction currency:
  - Note:
  - Account:
  - Category:

## 15.5 Repetitive Sending Under Teamwork

Sometimes there would be a necessity to send transaction or directory item again when teamwork used. Press *Share on data exchange* menu item to do that.

The first screenshot shows a list of transactions for the week of Feb 1-28, 2018. A transaction for "Public transport" on Friday, Feb 23, is selected. The second screenshot shows a context menu for the selected transaction, with "Share on data exchange" highlighted. The third screenshot shows the same list of transactions, but the "Public transport" entry now has a checked checkbox next to it, indicating it has been selected for bulk action.

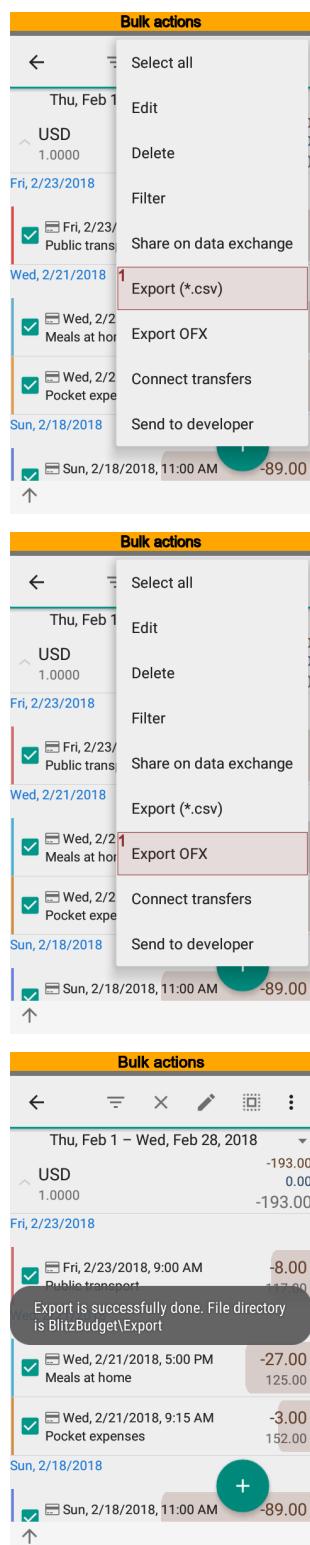
Date	Description	Amount
Thu, Feb 1	USD 1.0000	-193.00
Fri, 2/23/2018	Public transport	-8.00
Wed, 2/21/2018	Meals at home	-27.00
Wed, 2/21/2018	Pocket expenses	-3.00
Sun, 2/18/2018		-89.00

## 15.6 CSV and OFX Export

You can export selected transactions to CSV and OFX files. Press *Export CSV* and *Export OFX* to do that. In contrast to transactions directory items can be exported to a CSV file only.

**Note:** Export transaction to an OFX file is available in the Pro version only.

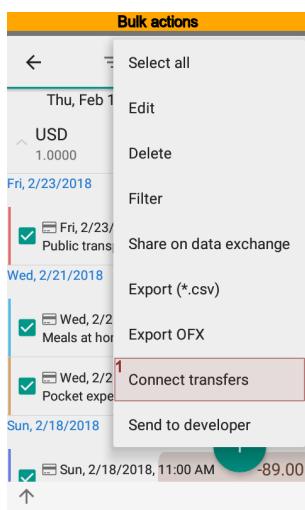
---



## 15.7 Connecting of transactions

Sometimes one wants to additionally connect transactions to have a real transfer. For a example, you may want to connect two separate transactions when transfer was created by hands or as a result of an import. To get

transactions connected just check at least one transaction and run the operation and the app will find and connect complement transactions automatic.

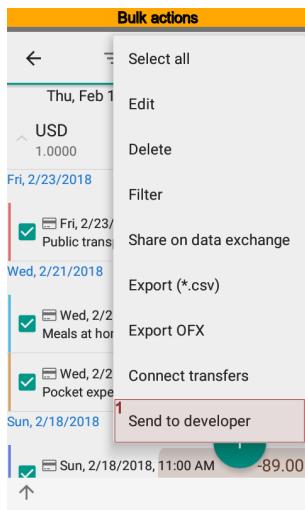


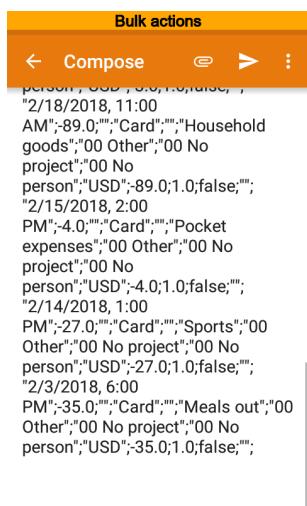
**Note:** Starting from the version 6 both transactions are automatic connecting when transfer is made by hands, thus there is no need to additionally connect these transactions. Connecting transactions are marked by a special icon.

## 15.8 Sending Source Data to Developer

Sometime you need a help to understand what is going on in the app. Usually in order to get a help it is required to show source data to the developer.

Press *Send to developer* menu item to send select objects. You will see a letter before sending, so you will be able to edit some data.





# CHAPTER 16

## Report Settings and Shortcuts

### 16.1 Report Settings

Budget Blitz for Android can store custom grouping and filters for reports and transactions list. Let us look into the matter using an example of **(Turnovers)** report. You can save settings for other reports and transactions list by the same way.

Since started the report has default grouping, filter and time range.

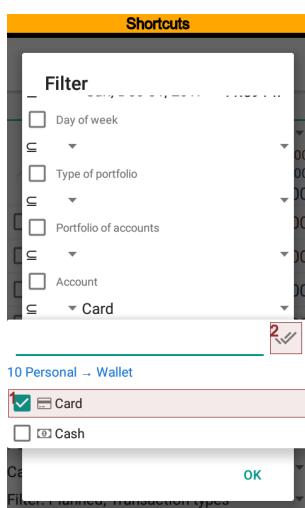
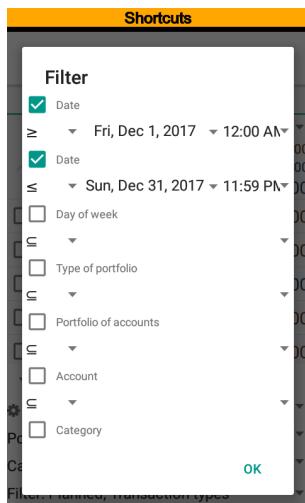
Shortcuts			
Budget Bli...	1	↗	⋮
Transactions	10 Personal		
Fri, Dec 1 – Sun, Dec 31, 2017			
Wallet	385.00		
Available	1,909.00		
Actual	-314.00	677.00	
Plan	-746.00	711.00	
	350.00		
Card	-1,410.00		
Available	114.00		
Actual	-184.00	0.00	
Plan	-458.00	508.00	
	-1,360.00		
Cash	1,795.00		
Available	677.00		
Actual	-130.00	203.00	
Plan	-288.00	710.00	
			+

The screenshot shows two views of the BudgetBlitz application. The top view is the 'Shortcuts' menu, which includes options like 'Schedule of payments', 'Plan vs. actual', and 'Turnovers'. The 'Turnovers' option is highlighted with a red box and a red number '1' above it. The bottom view is the 'Turnovers' report for '10 Personal' from 'Fri, Dec 1 – Sun, Dec 31, 2017'. The report lists various transactions with amounts such as -314.00, 677.00, 363.00, -51.00, -85.00, 254.00, -67.00, -34.00, -10.00, -42.00, and 423.00. A green circle with a '+' sign is overlaid on the report area.

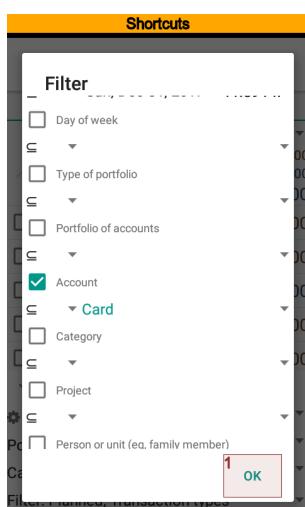
We will try to make fast access to **(Turnovers)** report based on a filter having one account only.

Edit filter settings. To do that pull bottom sheet and press **Filter ▼**. Select only one account and save changes.

This screenshot shows the same 'Turnovers' report as before, but with a bottom sheet pulled down. The sheet includes a 'Listview setting' section, a 'Portfolios of accounts' section, and a 'Categories' section. At the bottom of the sheet, there is a red box around the 'Filter: Planned: Transaction types' section. A green circle with a '+' sign is overlaid on the report area.



You can see at the pictures that report contains data of the only one account. To create a persistent setting press **Report settings ▼** at the bottom sheet and choose create new setting from the drop down list.



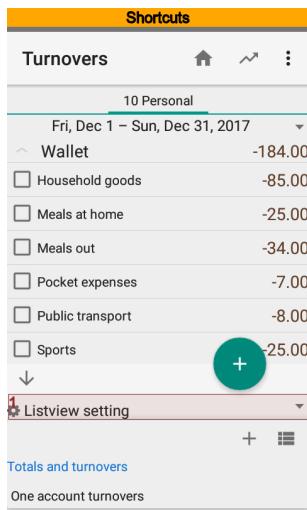
The top screenshot displays a list of personal transactions for the period from Friday, Dec 1 to Sunday, Dec 31, 2017. The transactions are categorized under '10 Personal' and include:

- Wallet: -184.00
- Household goods: -85.00
- Meals at home: -25.00
- Meals out: -34.00
- Pocket expenses: -7.00
- Public transport: -8.00
- Sports: -25.00

The bottom screenshot shows the same report with a 'Listview setting' dialog open. The dialog has two buttons: '1' (with a checkmark) and '2+'.

Put the name **One account turnovers** for the new setting and save. Now **(One account turnovers)** is ready to use. A report will have grouping and filter values of the setting when you choose it from the drop down list.

The screenshot shows the creation of a new report setting. The 'Name' field is filled with 'One account turnovers'. The 'Filter' dropdown shows 'Account; Planned; Transaction types'. The 'Current month' section includes a checkbox for 'Fix the start of the period' which is unchecked. The 'Fixed period start date' is set to 'Thu, Dec 21, 2017' at '12:00 AM'. The 'Date offset relative to the start of the period' section shows 'Days: 0', 'Months: 0', and 'Years: 0'.



## 16.2 Creating Shortcuts

Using Budget Blitz for Android you can open reports and transactions list from the Android launcher screen. At the previous section you have got the new persistent setting. Let us suppose that you want to create a shortcut for it.

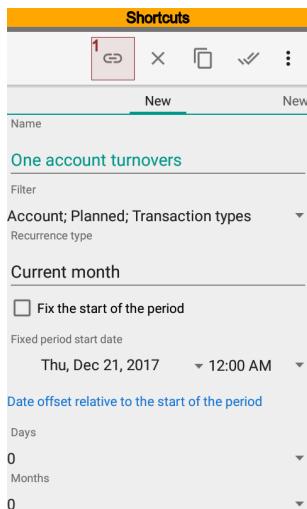
---

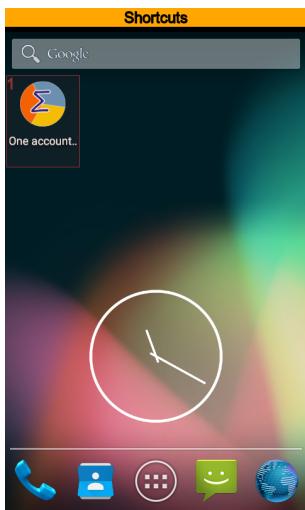
**Note:** Shortcuts available in the Pro version.

---

Let us go back to the setting card. Please keep in mind that setting has a frequency. The time range of the new report depends on that frequency. Current month is the default value and you can put another one.

Press **Create shortcut** to create the shortcut.



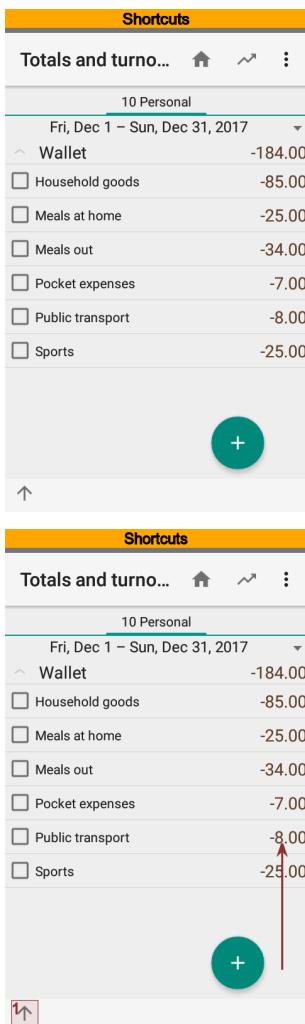


New shortcut will appear at the free space of the one of Android launcher screens.

---

**Note:** The shortcut is connected with list view setting. The shortcut will be broken when setting has removed.

---



The screenshot shows the 'Shortcuts' section of the BudgetBlitz app. At the top, there's a header with icons for home, search, and more. Below it, a section titled 'Totals and turnover...' has a dropdown menu showing '10 Personal' and the date range 'Fri, Dec 1 – Sun, Dec 31, 2017'. The main area displays a list of transactions:

Category	Amount
Wallet	-184.00
Household goods	-85.00
Meals at home	-25.00
Meals out	-34.00
Pocket expenses	-7.00
Public transport	-8.00
Sports	-25.00

At the bottom of the transaction list is a green circular button with a white plus sign. Below the transaction list, there are sections for 'One account turnovers', 'Portfolios of accounts', and 'Categories', each with a dropdown arrow. A 'Filter' dropdown at the bottom is set to 'Account; Planned; Transaction types'.

Let us check the shortcut. Press it and make sure that report started. As you can see at pictures the app applied filter of the shortcut.

A shortcut is just a link to persistent setting. Modify setting properties if you want to modify shortcut.



# CHAPTER 17

## Widgets and Templates

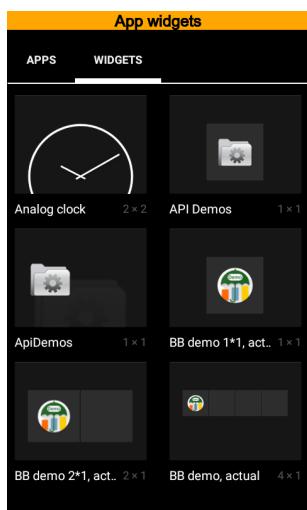
### 17.1 Widgets

Budget Blitz for Android has the convenient widget to show actual balance, turnovers and to create new transaction.



Available size of widget are 1x1, 1x2, and 1x4. The widget theme and the app theme are equals.

You can use widget not only like a financial highlights. Other ways of usage are short report and template of new transaction.





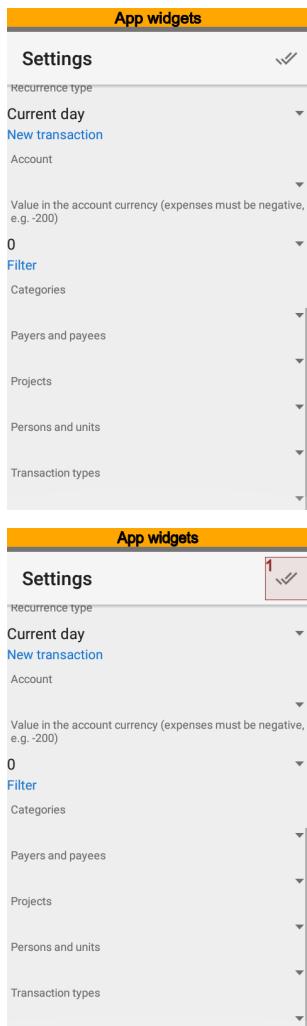
A new widget contains a balance and turnovers for the current day. Press **Settings** to modify widget.

The View section has main widget options.

Use the *Name* when you have more than one widget. You can keep it empty if you want to.

Use the *Types of portfolios*, the *Portfolios* and the *Accounts* options to restrict information of widget. You can put one or more values. Different widgets can have different options. For example you can have two widgets, one for certain account, and another for another one.

Use the *Show balance* to set balance visibility on or off. Also you can specify whether credit limit is ignored or not when balance is calculated. Balance is free of credit limit by default and for credit cards you will have a negative balance.



## 17.2 Using Widgets as Transaction Templates

The **New transaction** button is available in the widget since account for new transactions specified in settings. Also you can set an amount for new transaction. That amount will be copied to a new transaction.

Values of a filter will be copied to a new transaction as well.

Thus, you can use widget like a new transaction template.

---

**Note:** Templates are available in the Pro version. Free version ignores an amount and values of filter.

---

## 17.3 Using Widgets as Reports

Since widget has flexible settings you can use it as a report with persistent settings. The Filter section is the key.

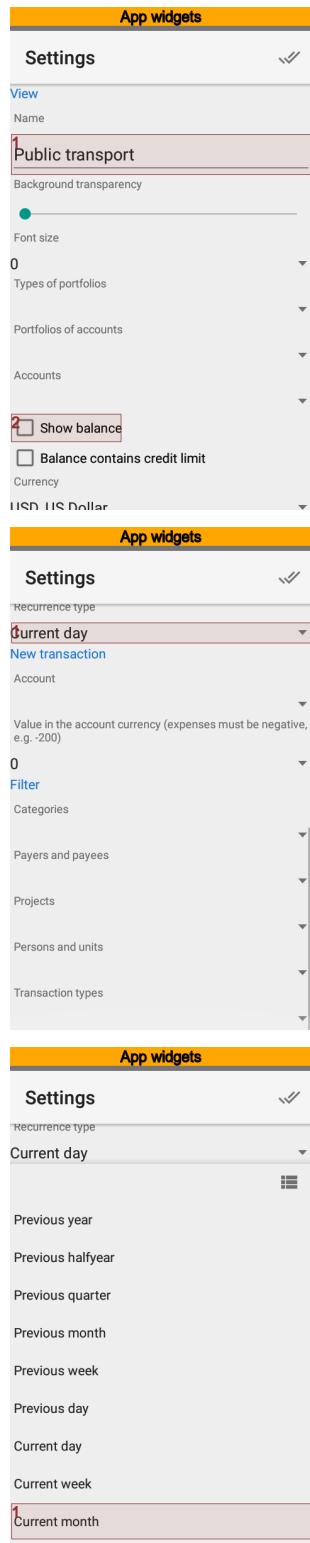
---

**Note:** Widgets as reports are available in the Pro version.

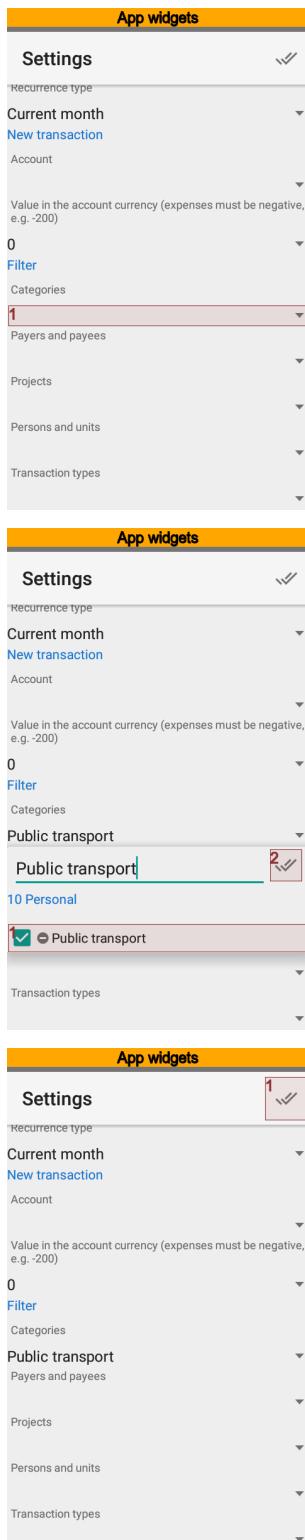
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## 17.4 Widgets as Reports Example

Let us make a widget setup to show public transport expenses during current month. Open widget settings and put the Public transport name.



Set balance off, because we do not need to see totals. Select current month as the time range.



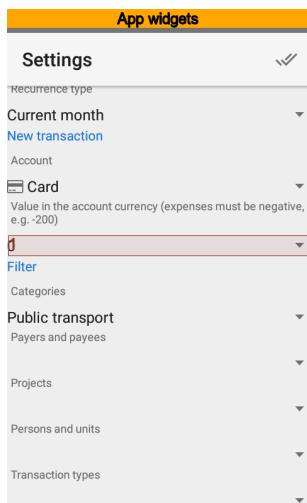
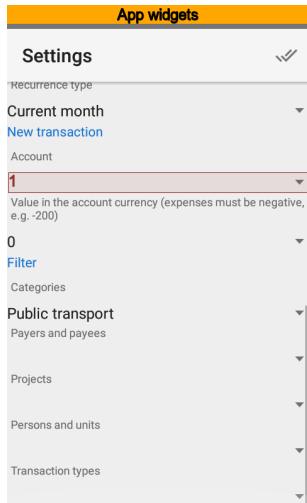
Set the **Public transport** category and save settings.

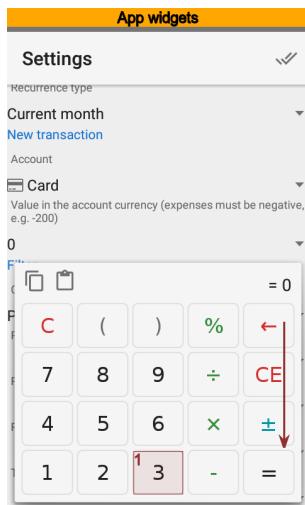


Now you can see turnovers under **Public transport** category for the current month, expenses amount, and accounts that are the source of payments.

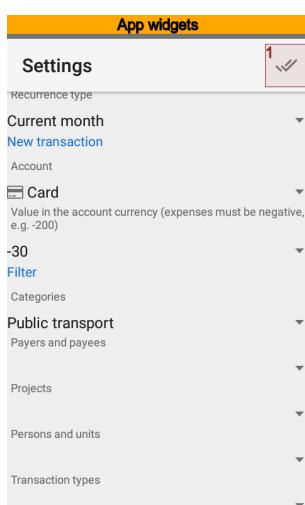
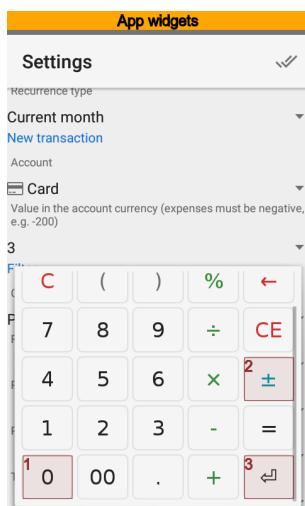
### 17.5 Widgets as Templates Example

Now, modify settings the way you can fast create expenses. Open the setting to do that.



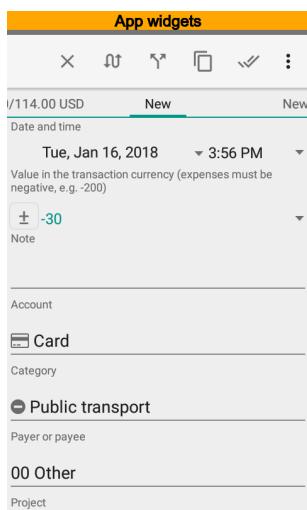


Set the account you will pay often for public transport. Also put the most frequent amount.





Save settings. Now the button to create new transaction appeared.



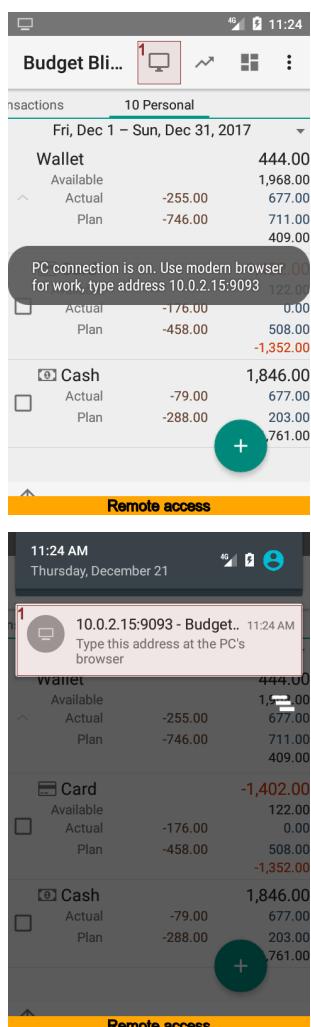
Create new transaction and you will see one contains the account, the amount and the category already. All you have left to do is save the new transaction.

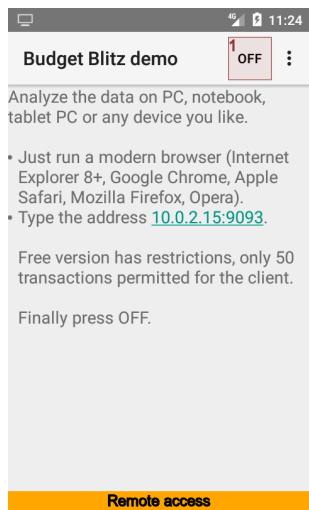
Using same way you can put payer, payee, project, and person for a new transaction. Each new template should have a new widget.

# CHAPTER 18

## Remote access

Since installed Budget Blitz for Android has the PC client. It supports Windows, Linux, Mac, etc. All you need is a modern browser, Internet Explorer 8+, Google Chrome, Apple Safari, Mozilla Firefox, or Opera.





Activate client from the main screen. After the PC access get started the app will show the brief guide how to run client on your PC. At the same time you can see the display sign at the Android top bar.

PC client contains ready to print reports and charts.

# CHAPTER 19

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## Integration with third party applications

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You can integrate Budget Blitz for Android with other applications. For example, you can connect Budget Blitz for Android with a voice assistant and create transactions by voice. Another hint is to create transactions using Tasker.

### 19.1 Making Transactions From Text

To create a new transaction you just need to send broadcast intent. Since intent received the app analyze it and create new transaction using notifications detection algorithm.

Intent parameters are

Class = `biz.interblitz.intent.CONVERT_TEXT_TO_NEW_TRANSACTION`

Extras:

1. `timestampMillis`: Type of long, date and time of a new transaction in milliseconds. Current date and time used when empty.
2. `address`: Type of String, sender of the message, can be empty.
3. `message`: Type of String, message like a notification to create a new transaction, required.

### 19.2 REST API

Budget Blitz for Android supports [REST API](#). API allows to create new directories and transactions, and edit or delete existed ones. Using this API you can create your own addons or applications.

You have to enable remote access to dial with [REST API](#) and read documentation, see chart *Remote access* (page 111). Documentation is available by [Swagger](#). On the [Swagger](#) page type the address `http://{{server}}:{{port}}/api/v1/docs.json`. Server and port will be available after PC connection enabled.

You can try app examples at the [github.com](#). After an example has loaded type Budget Blitz for Android address as `http://{{server}}:{{port}}`.

## 19.3 Intents API

In addition to simple API for making transactions from text Budget Blitz for Android supports extended Intents API. It consists of two parts, events and data requests. API based on the REST API. By default Intents API is OFF. You have to enable it selecting the part you need.

### 19.3.1 Intents API: Part 1, Events

When directories and transactions are saving events occurs. On the event Budget Blitz for Android sends Intent. You have to select target packages in the settings. Intent contains:

Action = {biz.interblitz.budget{free/pro}.api.event.ITEM\_ONCHANGE}

Extras:

1. collection - collection name that fires event
2. id - object id that fires event

When transaction is coming from notification import Extras contains

1. notification - notification text
2. address - notification address (phone number or package name)
3. amount - transaction amount
4. currency - transaction currency

To get more data you should send request Intent.

### 19.3.2 Intents API: Part 2, Requests

Request intents intended to get, modify or delete some data. Intent structure is

Class = biz.interblitz.service.ApiReceiver

Action = {biz.interblitz.budget{free/pro}.api.request}

Extras:

1. method - single value from: GET, POST, DELETE
2. path - path to the collection
3. body - JSON data
4. package - full package name to receive response, response will not return if empty
5. class - package class to receive response, may be empty

Also Extras can contain any other data. All that data will returned back in response.

Budget Blitz for Android sends Intent response with structure

Action = {biz.interblitz.budget{free/pro}.api.response}

Extras:

1. collection - collection name
2. response - JSON response

Parameters method, path, body, collection, response matches REST API. Documentation is available from the Swagger. See more [REST API](#) (page 113).

# CHAPTER 20

## Difference Between Versions

Table 1: Difference between versions

	Free version	Pro version
Accounting	•	•
Planning	•	•
Reports	•	•
SMS, OFX, CSV import	•	•
Push notifications import	15 per month	•
Additional SMS that confirms transaction and contains pins, passwords, etc import		•
Additional SMS that contains transaction details when transaction has more than one SMS import		•
OFX export		•
Teamwork	Sending data only	•
Remote access	50 transactions	•

Continued on next page

Table 1 – continued from previous page

	Free version	Pro version
Notifications about upcoming payments		•
Reports driven notifications		•
Shortcuts		•
Widgets as reports		•
Automatic backups		•
Backups encryption		•
Support	•	•

Google Play:

Free version

Pro version

# CHAPTER 21

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## Migration to Pro Version

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There are two stage of migration, prepare data in old version and loading it into a new one. It is very easy to do.

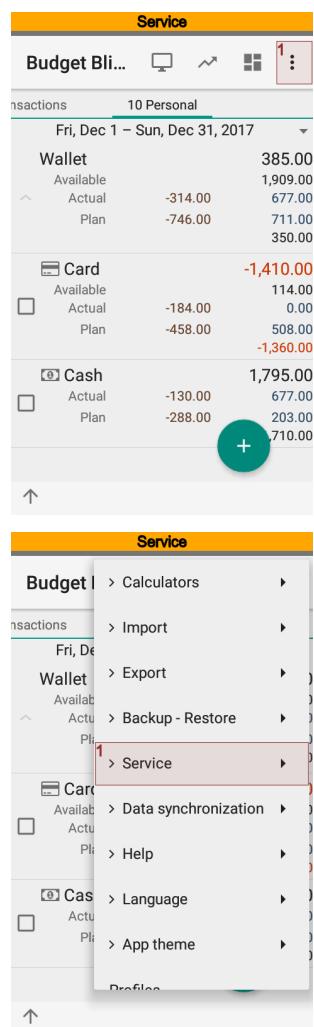
1. Start Free version;
2. At the main screen press *Actions* → *Export* → *Pro version upgrade*;
3. Start Pro version;
4. At the main screen press *Actions* → *Import* → *Free version data*.

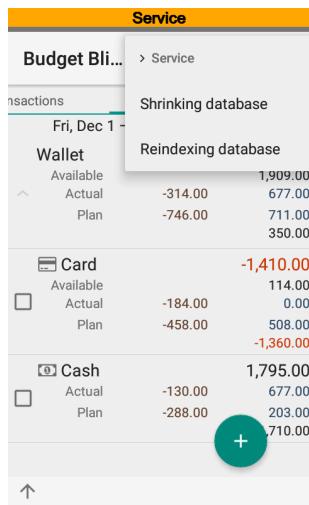


# CHAPTER 22

## Service

Generally the app Budget Blitz for Android do not need any service. But when you notice the app becomes slower service actions can help.





Shrinking database frees unused space, rebuilds the database file, repacking it into a minimal amount of disk space. This contributes to speed up the app. Shrinking database runs `VACUUM` command.

Shrinking does not affect to files that app contains except database.

Reindexing database is useful when you notice drastic drop in of the app performance. Reindexing runs `REINDEX` command.

**Warning:** Do not forget making backups, especially before service. Ensure you remember encryption password if you have. Otherwise restoring data could be impossible.

# CHAPTER 23

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## Ready to use Financial Institutes

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### 23.1 Belarus

BPSSberbank  
BelVneshEkonomBank  
Belagroprombank  
Belarusbank  
Belgazprombank  
Belinvestbank  
Belrosbank  
MTBank  
Priorbank  
Houm Kredit Belarus

### 23.2 Brazil

Banco do Brasil  
Ita Unibanco

### 23.3 Canada

ICICI Bank

### 23.4 Hungary

CIB BANK

OTP Bank Simple

## **23.5 India**

Central Bank of India

Deutsche Bank

State Bank of India

## **23.6 Indonesia**

Commonwealth Bank

## **23.7 Maldives**

BML

## **23.8 Poland**

Bank Millennium SA

## **23.9 Russia**

AnyBalance

BSGV

KARI CLUB

Modulbank

QIWI

SDMBank

AKIBANK

AMT Bank

Absolyut Bank

Avangard

AyManiBank

AkBars

AlfaBank

BKS BANK

Baltiyskiy Bank

Bank Evropeyskiy

Bank Moskvi

Bank Petrokommerts

Bank Primore  
Bank SanktPeterburg  
Bank Sovetskiy  
Bank Tochka  
Bank Transportniy  
Bank URALSIB  
Bank Finservis  
Bankru  
BarklaysBank  
Belgorodsotsbank  
Binbank  
VTB  
VUZBank  
Vneshprombank  
Vozrozhdenie Bank  
Vostochniy ekspress  
Vserossiyskiy bank razvitiya regionov  
Vyatkabank  
GLOBEKS BANK  
GUTA Bank  
Gazprombank  
Gazprombank Dop karta  
Dalnevostochniy Bank  
Evroplan  
EvrositiBank  
Ekaterinburgskiy Munitsipalniy Bank  
Zapsibkombank  
Investbank  
Interkommerts  
Interprogressbank  
Kedr  
Koltso Urala  
KreditEvropaBank  
Kukuruza  
Lipetskombank  
LokoBank  
MDM Bank  
MINBank  
MTS bank

Masterbank  
Metkombank  
Moskovskiy kreditniy  
Moskomprivatbank  
NB Trast  
Nefteprombank  
Noviy Simvol  
Nomos Bank  
OTP Bank  
Perviy Respublikanskiy Bank  
Pochta Bank  
Promsvyazbank  
Rayffayzen Bank  
Regionalniy bank razvitiya  
Roketbank  
RosEvroBank  
Rosbank  
RosselhozBank  
Rossiya  
RostFinans  
Russkiy Standart  
SKBBank  
SMP Bank  
Sberknizhka  
Sberbank Rossii  
SberbankMaestro Povolzhe  
Svyaznoy Bank  
SvyazBank  
Severgazbank  
Sitibank  
Sobinbank  
Solidarnost  
Surgutneftegazbank  
TAATTA  
Tatfondbank  
Tachbank  
Tinkoff  
TransKreditBank  
Trastbank

Ural FD  
UralPromBank  
UralTransBank  
Uralskiy bank rekonstruktsii i razvitiya  
FK Otkritie bivsh NOMOSBank  
FONDSEVISBANK  
HantiMansiyskiy Bank  
Houm Kredit  
Tsentrinvest  
Chelindbank  
Chelyabinvestbank  
Ekspress  
EnergoMashBank  
Yuniastrum Bank  
Yunikredit Bank  
YandexDengi

## **23.10 Thailand**

KASIKORN BANK

## **23.11 Ukraine**

VAB Bank  
ABank  
AlfaBank  
AlfaBank Ukraina  
BROKBIZNESBANK  
Dongorbank  
Ekspresbank  
Industrial  
KREDOBANK  
Mihaylovskiy  
OTP Bank  
OschadBank  
PUMB  
Petrokommerts Ukraina  
PrivatBank  
ProKreditBank

Prominvestbank

Rayffayzenbank Aval

Sberbank Rossii v Ukraine

UkrSibBank

Ukreksmbank

Ukrsotsbank

## **23.12 United Arab Emirates**

Emirates Islamic bank

Emirates NBD

## **23.13 United States**

First National Bank

Guardian Alert General

Pendleton Community Bank

Town Bank

UniBank

## **23.14 Uzbekistan**

Uzcard

## **23.15 Vietnam**

Australia and New Zealand Banking Group

# CHAPTER 24

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## Terms and definitions

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**contractor** Contractor is a payer or payee.

**exchange node** Exchange node or node is a device used by teamwork member.

**split** Transaction details are called split. Split has its own category, project and person for each line.

**technical category** Technical category is category having neither *Revenue* nor *Expense* options.



# CHAPTER 25

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